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Some Mars Global Surveyor documents that relate to flight operations are under revision to accommodate the recently modified mission plan.

Documents that describe the attributes of the MGS spacecraft are generally up-to-date.

542-SE-012, Final Rev. A

**ENGINEERING TELEMETRY, COMMAND DICTIONARY
AND TELEMETRY CALIBRATION HANDBOOK
VOLUME 1: TELEMETRY DICTIONARY**

**MARS GLOBAL SURVEYOR
(MGS)**

TELEMETRY DICTIONARY

DOCUMENT NO. MCR-94-4130

DRD NO. SE012

CONTRACT NUMBER: 960048

13 September 1996

REVISION: FINAL - REV A

Prepared For:

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California Institute Of Technology
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TELEMETRY DICTIONARY

FOR THE MARS GLOBAL SURVEYOR

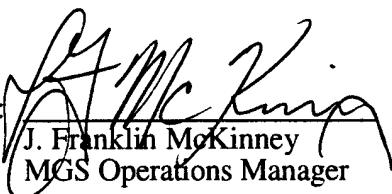
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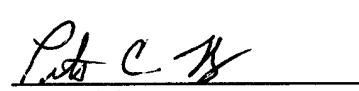
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FOREWORD

The Engineering Telemetry Dictionary, is submitted to the Jet Propulsion Laboratory (JPL) under Contract Number 960048, Mars Global Surveyor, in accordance with Data Requirement Description (DRD) Sequence Number SE012.

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ACRONYM LIST

A	Analog
AC	Alternating Current
AACS	Attitude and Articulation Control Subsystem
ADE	Array Drive Electronics
AH	Ampere Hours
AMP	Ampères
ANS	Array Normal Spin
ANT	Antenna
ASE	Airborne Support Equipment
ASOC	Actual State of Charge
ATA	Automatic Threshold Adjust
ATT	Attitude
AVG	Average
BCA	Battery Charge Assembly
BIU	Bus Interface Unit
BOL	Beginning Of Life
BP	Bipropellant
bps	Bits Per Second
BRU	Battery Reconditioning Unit
BU	Backup
BVR	Boost Voltage Regulator
BIO	Buffered Input Output
CAIS	Celestial Attitude Initialization Software
CAT	Catalytic
C&DH	Command and Data Handling
CDU	Command Detector Unit
CIU	Controls Interface Unit
CIX	Controls Interface Extender
CMD	Command
CRC	Cyclic Redundancy Check
CRR	Charge Rate Reset
CSA	Celestial Sensor Assembly
CTL	Control
CV	Command Verification
D	Digital
D/A	Digital/Analog
DC	Direct Current
DMPR	Damper
DOR	Differential One-Way Ranging
DSN	Deep Space Network
DTC	Differential Thermal Controller
EDF	Engineering Data Formatter
EDP	EDF Dump Packet
ENC	Encoder
ENG	Engineering Only Telemetry Stream
EOL	End Of Life
EPS	Electrical Power Supply Subsystem
ER	Electron Reflectometer
ETF	Engineering Transfer Frame

ETP	Emergency Telemetry Packet
EU	Engineering Unit
FIFO	First In, First Out
GCO	Gravity Calibration Orbit
GDE	Gimbal Drive Electronics
GE	General Electric
GFE	Government Furnished Equipment
GFP	Government Furnished Property
GIS	General Interface Specification
GMWSR	Gyro Motor Winding Short Recovery
GSE	Ground Support Equipment
HGA	High Gain Antenna
H/W	Hardware
HLD	Hardware Level Discrete
HPD	Hardware Pulsed Discrete
HTR	Heater
HZ	Hertz
ID	Identification
I/F	Interface
I/O	Input/Output
ICD	Interface Control Document
IMU	Inertial Measurement Unit
INJ	Injector
IRE	Inertial Reference
IS	Interface Specification
ISH	Inertial Slew Hold
JPL	Jet Propulsion Laboratory
KABLE	Ka-Band Link Experiment
kbps	Kilobits per Second
kg	Kilogram
kHz	Kilohertz
km	Kilometer
KSC	Kennedy Space Center
KSPS	Kilo-symbols per second
LGA	Low Gain Antenna
LSB	Least Significant Bit
LTS	Lab Test Set
LV	Latching Valve
MAG	Magnetometer
MDM	Multiplexer/De-multiplexer
MHSA	Mars Horizon Sensor Assembly
MGS	Mars Global Surveyor
MIL-STD	Military Standard
MMH	Mono-Methyl Hydrazine
MOC	Mars Observer Camera
MOI	Mars Orbit Insertion
MOLA	Mars Observer Laser Altimeter
MOS	Mission Operations System
MP	Mapping Phase
MR	Mars Relay
mrad	Milliradian
ms	millisecond
m/s	meters per second
MSB	Most Significant Bit

N/A	Not Applicable
NM/SEC	Nautical Miles/Second
NRZ	Non-Return to Zero
NTO	Nitrogen Tetroxide
PDS	Payload Data Subsystem
PIB	Parallel Input Buffer
PID	Proportional Integral Derivative
PIP	Payload Integration Plan
PMS	Power Management Software
POB	Parallel Output Buffer
POR	Power on Reset
PPE	Purge Purification Equipment
PRA	Pyro Relay Assembly
PROM	Program Read Only Memory
PS	Performance Specification
PSA	Partial Shunt Assembly
PSE	Power Supply Electronics
PWR	Power
QA	Quality Assurance
RAD	Radians
RAD/SEC	Radians per Second
RAM	Random Access memory
REA	Rocket Engine Assembly
REDMAN	Redundancy Manager
REL	Release
RF	Radio Frequency
ROM	Read Only Memory
RPA	Radio Frequency Power Amplifier
RPM	Revolutions per Minute
RST	Reset
R/T	Realtime
RTC	Realtime Command
RTI	Realtime Interrupt
RWA	Reaction Wheel Assembly
RXO	Redundant Crystal Oscillator
S&E-1	Science and Engineering Data Stream 1
S&E-2	Science and Engineering Data Stream 2
SA	Solar Array
SAD	Solar Array Drive
SCD	Specification Control Drawing
SCP	Standard Controls Processor (SCP-1750)
SCS	Sequence Change Request
SCT	Spacecraft Team
SCU	Signal Conditioning Unit
SDP	SCP Dump Packet
SE	Support Equipment
SEC	Second
SEU	Single Event Upset
SIB	Serial Input Buffer
SIS	Spacecraft Interface Specification
SIS	Star Identification Software
SOB	Serial Output Buffer
SPE	Static Phase Error
SSA	Sun Sensor Assembly

SSC	Stored Sequence Command
SSE	Sun Sensor Electronics
SSR	Solid State Recorder
STD	Standard
STP	Standard Temperature and Pressure
TBD	To Be Determined
T-0	Time Zero
TCE	Thermal Control Electronics
TCM	Trajectory Correction Maneuver
TCS	Thermal Control Subsystem
TES	Thermal Emission Spectrometer
TLM	Telemetry
TSOC	Theoretical State of Charge
TWTA	Traveling Wave Tube Amplifier
USO	Ultra Stable Oscillator
VCO	Voltage Controlled Oscillator
Voc	Voltage -open circuit
XSU	Cross Strap Unit

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1.0 INTRODUCTION

1.1 OBJECTIVES

This document defines the engineering telemetry formats and measurements for the Mars Global Surveyor (MGS) Spacecraft (S/C). It is intended for use by the Mission Operation Teams to design decommutation and display software in support of the Mars Global Surveyor System. This document also serves as a primary resource for the Mission Operation Teams to interpret and evaluate all spacecraft telemetry values which are available for downlink.

1.2 SCOPE

The Telemetry Dictionary, CDRL SE012, describes all Mars Global Surveyor telemetry formats and transfer frame structures required to decommute the MGS telemetry which is available for downlink from the spacecraft to the Deep Space Network (DSN). This document also describes header data, synchronization, data rates, telemetry modes, timing and digital recorder data necessary for the Mission Operation Teams to design the ground system software and displays required to support the MGS mission. Sufficient information is provided to evaluate each telemetry measurement and thus ascertain the status of spacecraft commanding as well as the health of the spacecraft hardware and software subsystems. Spacecraft Payload subsystem telemetry is also described herein, and will provide a limited view of the health of the payload instruments. However, as specified in the ICD's, instrument telemetry is provided directly by MOSO, to each instrument's Operations Team without display or analysis by the SCT. Therefore, a complete description of instrument telemetry is beyond the scope of this document and is not included herein.

The Command Dictionary of SE012, which describes spacecraft commanding, will also include a reference to the telemetry points which verify each key command. Therefore, no reference to commanding is included in this dictionary.

1.3 APPLICABLE DOCUMENTS

The following documents are applicable to this document to the extent specified herein. In the event of conflict between the documents referenced herein and the contents of this specification, the contents of this specification shall be considered the superseding requirement.

1.3.1 Government Documents

MIL-STD-1750A Military Standard 16-Bit Computer Instruction Set

U6 MOSO 0088 MGDS User Guides

1.3.2 Contractor Documents

- SE 001 Spacecraft Performance and Interface Specification
- SE 009 Block Dictionary
- SE 012 Engineering Telemetry Dictionary, Command Dictionary and
 Calibration Handbook
- SW 003 Flight Software Interface Specification
- SW 006 Flight Software Users Guide

1.3.3 Other Documents

2.0 TELEMETRY SYSTEM OVERVIEW

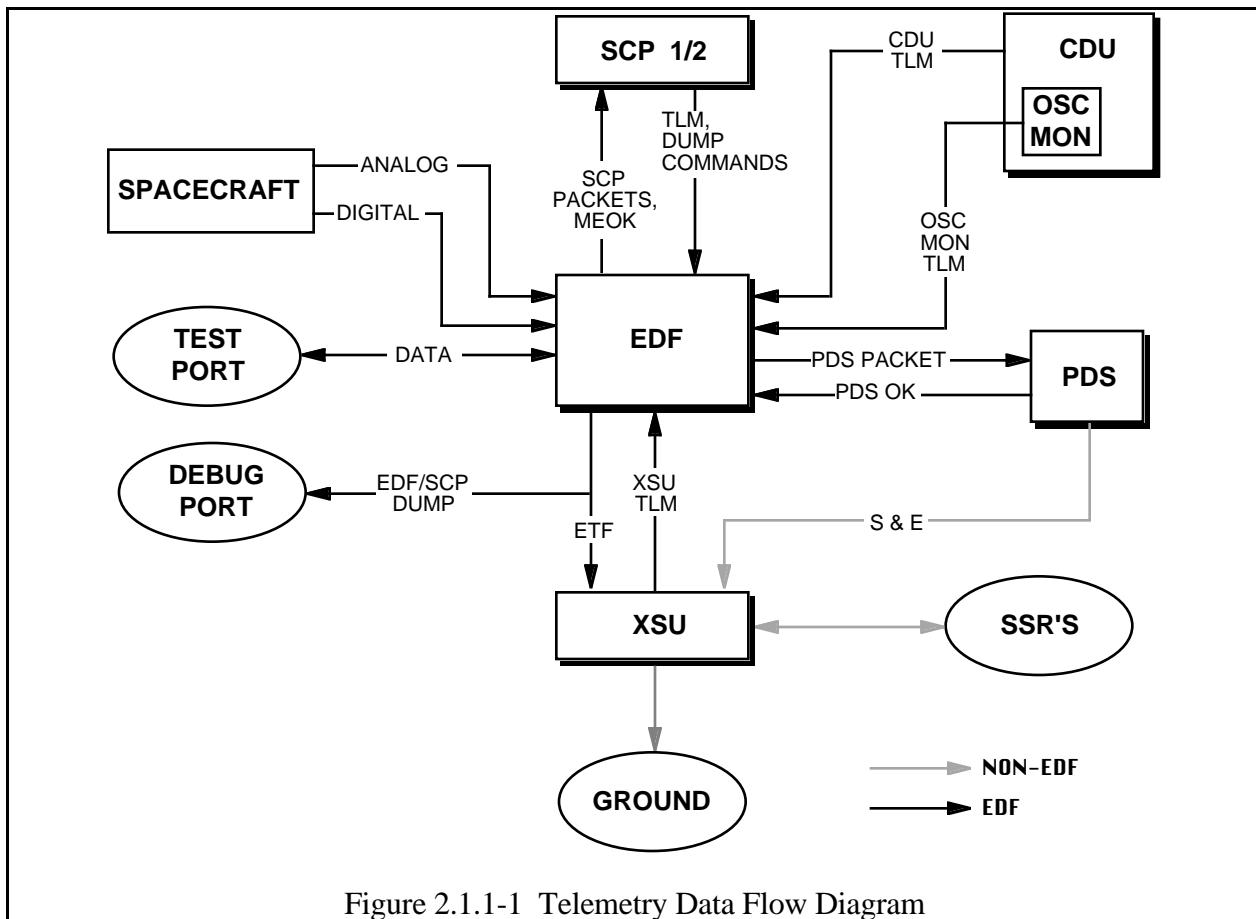
2.1 General Telemetry Description

Housekeeping telemetry from the spacecraft bus is designated "Engineering Telemetry" herein. The C&DH Subsystem accepts this engineering telemetry data from all spacecraft bus units and accepts Science data and instrument health data from the government-furnished Payload Data Subsystem (PDS). A small amount of instrument health data is also received from the spacecraft bus "Payload subsystem" as described in section 2.2.2.5. The C&DH subsystem then converts the collected data into serial data streams for transmission to the DSN. The content, rates, and formats of the telemetry data streams will be described in the following sections of this dictionary.

2.1.1 Telemetry Data Flow Description

The following description references the Telemetry Data Flow Diagram shown in Figure 2.1.1-1.

The Engineering Data Formatter (EDF) produces a formatted stream of engineering telemetry. The EDF also maintains the clock for the spacecraft. The Payload Data System (PDS) produces a composite stream of the EDF engineering telemetry and science data (called the S & E data stream). The Solid State Recorders (SSR's) will store and playback the above telemetry. The Cross Strap Unit (XSU) transfers telemetry data to the Transponder and/or to (& from) the SSR's. The XSU also provides commands to the SSR's.



2.1.2 Flight Software Description

Flight Software is comprised of several elements; EDF and SCP programmable (RAM) software and firmware (PROM). In this dictionary, telemetry processing firmware will be treated the same as hardware, and EDF/SCP software will be mentioned, only in reference to telemetry processing. (A full description of Flight Software can be found in the Software Users Guide, SCP Flight Software). The Flight Software system requires a number of software tasks for its operation. These tasks enable the C&DH Subsystem to operate in its full functional modes as well as in various degraded modes. The command and telemetry related software tasks are listed below; however, this volume is primarily concerned with items 2, 4, and 8, as underlined.

- 1) Redundancy management and control.
- 2) Control of Data Processing, Routing, and Rates.
- 3) Real-time command processing.
- 4) Command error protection and Verification.
- 5) Uplink rate control.
- 6) Command storage and processing
- 7) Control and processing of PDS up-loads.
- 8) Control of computer memory dumps and loads.
- 9) Safe Mode control.

2.2 SPACECRAFT BUS SUBSYSTEMS

2.2.1 Definition

In this document the term "Spacecraft Bus" refers to all hardware and software that will travel to Mars except for the government-furnished science Payload. The Spacecraft Bus includes the government-furnished Command Detector Units (CDU's) but not the government-furnished Payload Data Subsystem (PDS). The term "Spacecraft" (S/C) refers to the sum of the Spacecraft Bus and the government-furnished science Payload, including the PDS.

2.2.2 Subsystem Telemetry Descriptions

The following brief descriptions of the spacecraft subsystems are intended only to introduce the hardware and software subsystems from which telemetry will be obtained. These descriptions should prove useful in understanding the nomenclature and telemetry interactions described later in the detailed telemetry sections.

2.2.2.1 Attitude & Articulation Control (AACS) Subsystem

The functional block diagram of the AACS Subsystem is shown in Figure 2.2.2-1. SCP software acquires inputs for spacecraft Attitude Control from the indicated hardware units. It then formats and transfers the data to the EDF, providing a definite time relationship to allow for decoding of the data once inserted into the EDF telemetry format. The EDF will process PDS Packets and ETF Telemetry Segments for subsequent transmission to the earth.

The Inertial Measurements Unit (IMU) supplies both SCP's with attitude data which provide the capability for determining spacecraft angular rates and linear accelerations along the body axes.

The Celestial Sensor Assembly (CSA) provides a measurement of star transit times as the spacecraft slowly rotates. It has an optical system which focuses the star images, via a six-slit reticle, on a silicon detector array.

The Mars Horizon Sensor Assembly (MHSA) provides the primary attitude control reference during the Mars mapping phase. The MHSA consists of four objective lenses that image four quadrants of the Mars horizon onto four detector assemblies. The MHSA includes electronics required to provide digital attitude error data to the SCP, and alignment pads to define the three axes of the sensor: quadrants 1 & 2 indicate pitch error; quadrants 3 & 4 indicate roll error. The MHSA electronics generates 12 data words on a 2 Hz cycle; four quadrants of three thermopile voltages each.

Each Reaction Wheel Assembly (RWA) provides reaction torques about its mounting axis in response to a torque magnitude and torque sign control signal from the CIU. Three of the four RWAs are orthogonally mounted to produce torques about each of the three spacecraft axes; the fourth RWA is skewed at an angle of approximately 54.74 degrees with respect to each of the orthogonal axes so that an equal amount of its torque resolves into all three axes. The fourth RWA is normally off, but is brought into use if one of the three orthogonal RWAs fails.

The RWAs supply status information to the CIU. Each half second, the CIU examines the information from one wheel and puts speed, direction, power on/off status, power-limited status, and RWA identifier in a Parallel Input Buffer (PIB) for both SCP's; the PIB is updated about 250

milliseconds after 2 Hz time. The complete set of four SCP-input words is provided over a 2-second period.

The spacecraft has two redundant Sun Sensor Assemblies (SSA's) which provide a measurement of the sun vector in body coordinates. Each assembly is made up of five identical detectors and its associated electronics. Each detector generates one byte of solar aspect data from each of two orthogonal axes, and an analog Automatic Threshold Adjust (ATA) signal proportional to the intensity of the incident sunlight. The electronics either selects the detector with highest ATA voltage, or selects a detector commanded by the ground. Two of the five detectors are mounted on the solar arrays; thus, its alignment with respect to the S/C body axes, depends on solar array position.

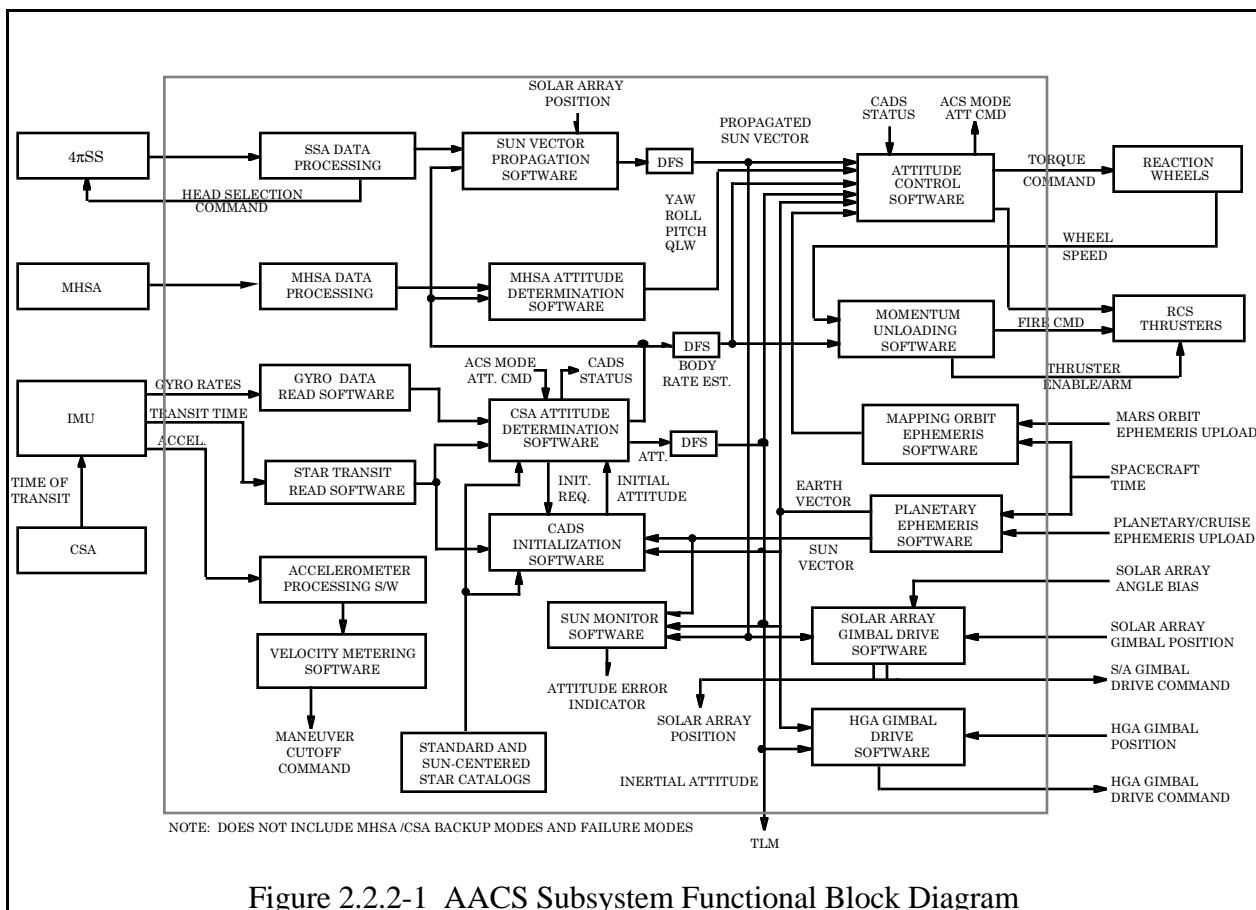


Figure 2.2.2-1 AAC Subsystem Functional Block Diagram

2.2.2.2 Command & Data Handling (C&DH) Subsystem

The C&DH Subsystem Functional Block Diagram is shown in Figure 2.2.2-2. The C&DH subsystem in conjunction with the Mars Observer Flight Software manages all Command and Telemetry functions for the spacecraft; However, only the telemetry related functions (underlined) and associated units are described below; (Command related functions are covered in volume 2).

Command Verification - The C&DH Subsystem accepts command messages from the Command Detector Units (CDU's) or from Ground Support Equipment (GSE) before launch, but only from the CDU's after launch. (The two CDU units are shown on the Telecommunications Functional Block Diagram, Figure 2.2.2-6). The C&DH Subsystem verifies each command or memory load autonomously, and reports the result of the verification in CV telemetry.

Telemetry Collection - The C&DH Subsystem accepts housekeeping telemetry data from all spacecraft bus units and science data from the government-furnished payload and converts the collected data into serial data streams. The contents and rates of the telemetry data streams are selectable by command.

Telemetry Stream Routing - The C&DH subsystem routes telemetry streams in response to commands. The C&DH subsystem transfers real-time telemetry to either the SSR's, or the Transponders. The C&DH also transfers playback data from the SSR's to the Transponders.

The key C&DH hardware units used in telemetry processing are described briefly in the following paragraphs:

The Redundant Crystal Oscillator (RXO) provides a redundant 5.12 MHz stable signal from which the EDF processing and telemetry timing signals are derived.

The Standard Controls Processors (SCP1 & 2) are the two main computer processing units for the spacecraft, and generate SCP1 and SCP2 telemetry packets for inclusion into the EDF transfer frame.

The Controls Interface Unit (CIU) and the Controls Interface Extender (CIX) are command processing units which interface with the CDU, and provide Command Verification (CV) data to the SCP's and CV telemetry to the EDF.

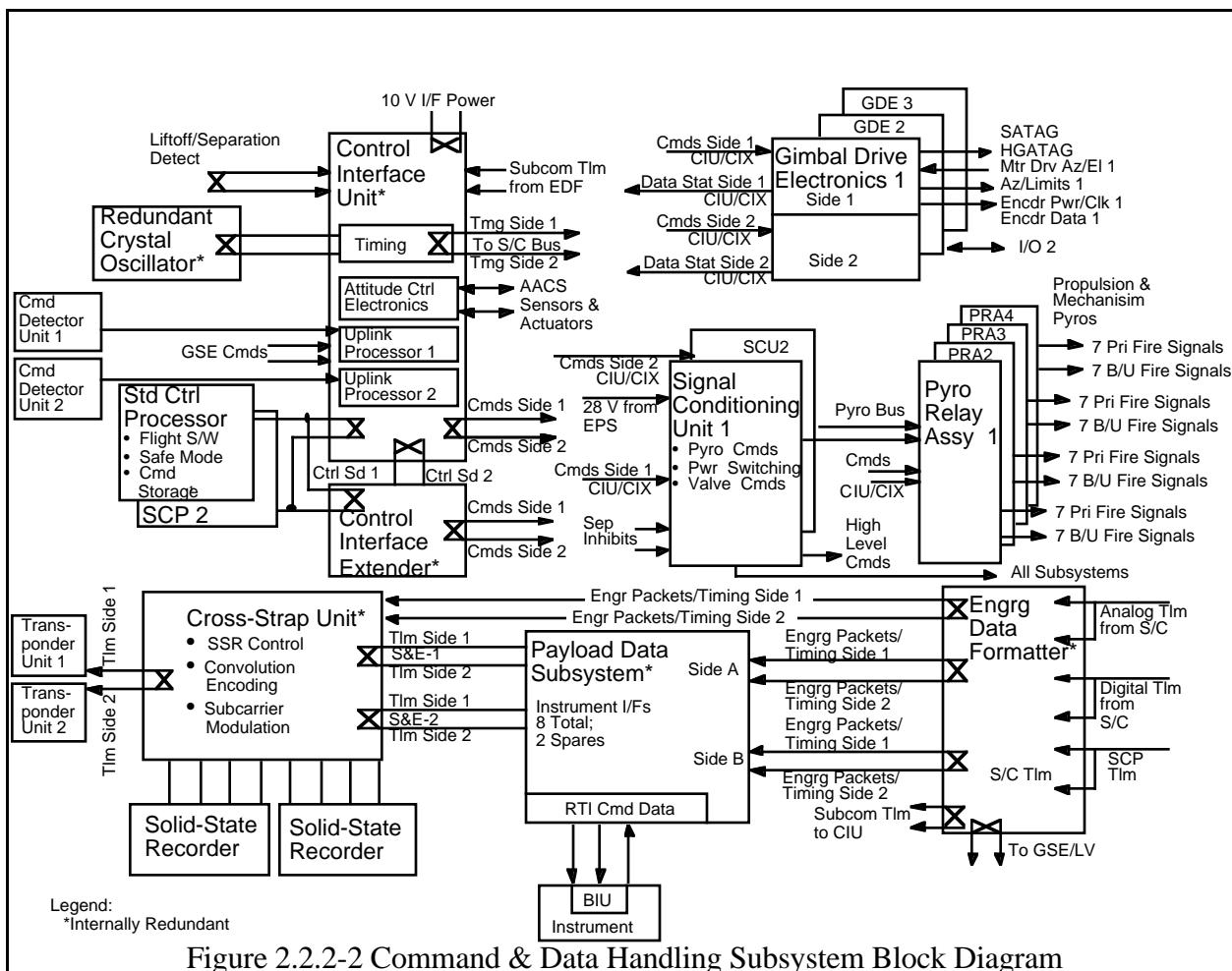
The Signal Conditioning Unit (SCU) accepts logic signals from the CIU/CIX and converts these signals to high voltage, high current interfacing outputs. Telemetry status for many of the switched units, originate from the SCU.

The Engineering Data Formatter (EDF) formats spacecraft hardware and SCP engineering telemetry data into packets for combination with PDS packets in mission mode, or for transfer to the XSU for recording, or transfer to the Transponder.

The Payload Data Subsystem (PDS) provides science and engineering data from the payload instruments via the Bus Interface Unit (BIU).

The Cross Strap Unit (XSU) provides switched digital and timing interfaces for connecting the telemetry outputs of the EDF and PDS to the two Solid State Recorders, or to the Transponder. These connections are controlled by Ground or Flight software commands.

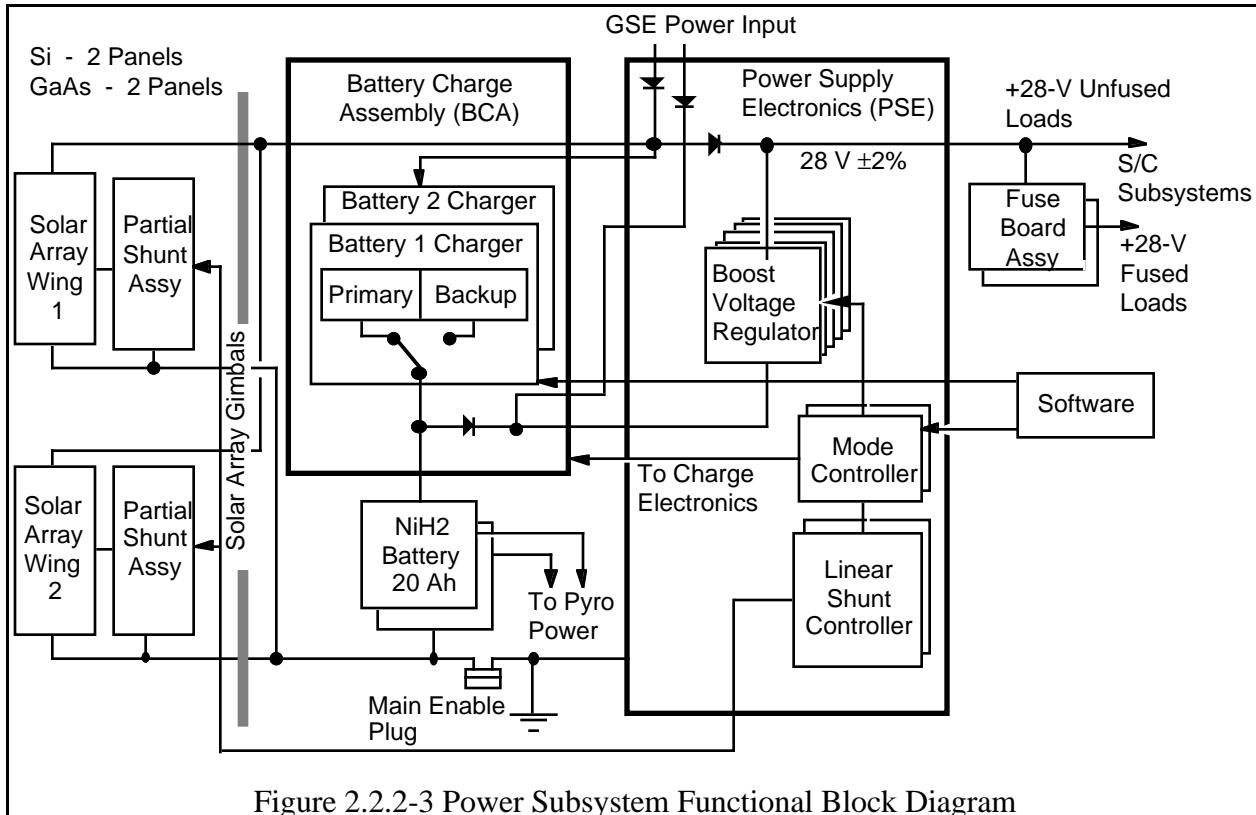
The C&DH provides Solid State Recorders (SSR's) for storage of telemetry data.



2.2.2.3 Electrical Power (PWR) Subsystem

The functional block diagram of the Electrical Power Subsystem is shown in Figure 2.2.2-3.

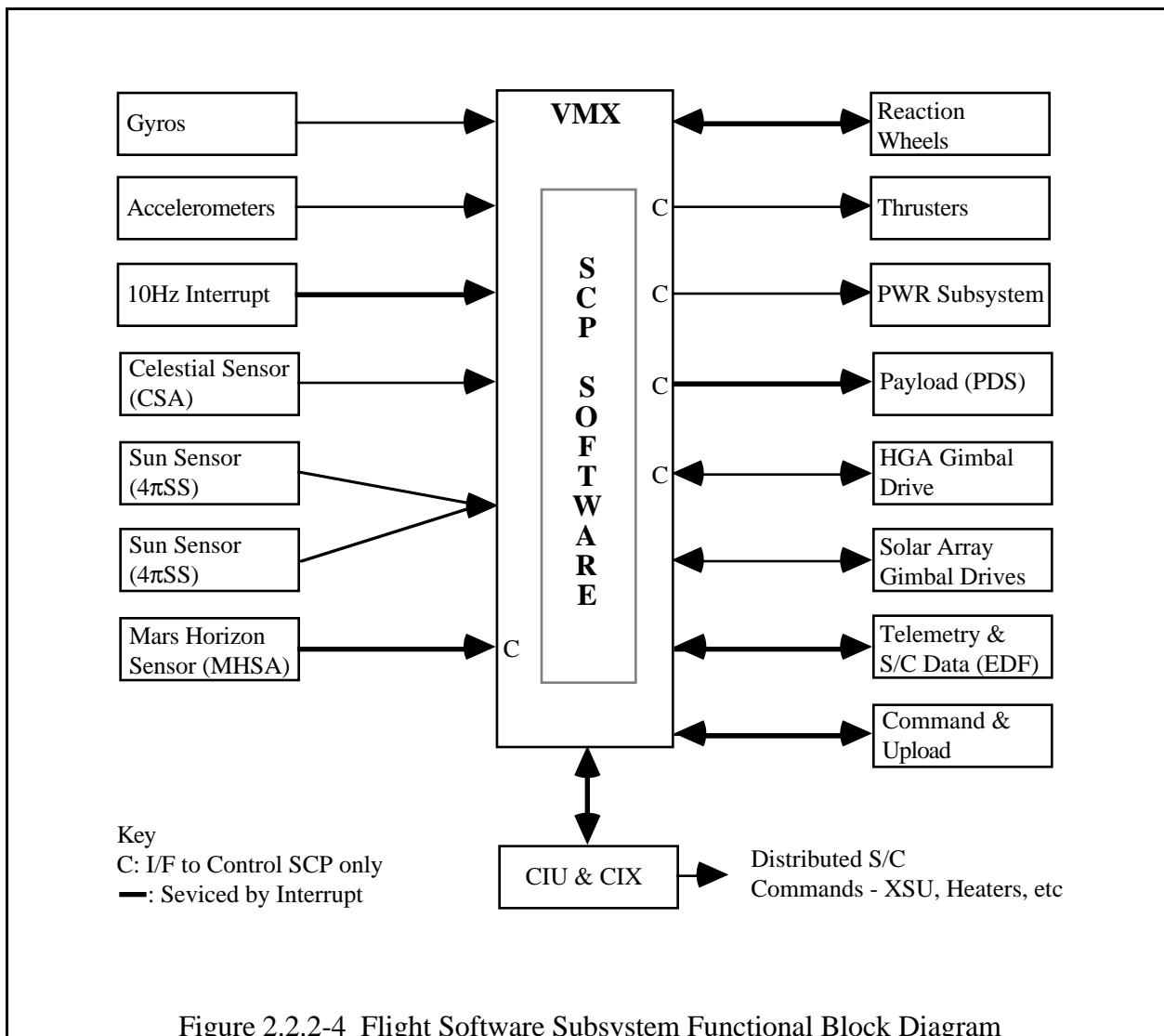
The Electrical Power subsystem provides all spacecraft power functions as specified in the Electrical Power Supply Subsystem Specification. For telemetry purposes, the Electrical Power subsystem provides a common +28 volt regulated bus for EDF side-1 and EDF side-2.



2.2.2.4 Flight Software (FSW) Subsystem

The SCP software is resident in each of two SCP-1750 memories. SCP flight software interfaces with the EDF (1) to transfer S/C telemetry from the EDF to the SCP for flight software processing and closed loop subsystem control, and (2) to provide programmable SCP telemetry data to the XSU for transmission to the ground.

The functional block diagram of the FSW Subsystem is shown in Figure 2.2.2-4. Hardware details of the I/O interface with the SCP are specified in the SCP-1750 Performance Specification.



2.2.2.5 Payload Subsystem

Payload science data is provided via the government furnished Payload Data Subsystem (PDS). The PDS is the subsystem interposed between the Spacecraft Bus and the Science instruments. The PDS routes commands to the payload instruments, and collects data packets of science and/or health information from the instruments, and engineering data from the EDF. It then formats this data into S&E-1 or S&E-2 transfer frames which are sent to the XSU (in C&DH) for routing to the Solid State Recorders (SSR) or for realtime transmission to the ground. The functional block diagram of the Payload Subsystem is shown in Figure 2.2.2-5, which depicts the data flow between the C&DH, the PDS, and the instrument Bus Interface Units (BIU).

The C&DH subsystem controls the application of +28 volt bus power to the Payload Instruments by means of discrete commands from the CIU/CIX to relays within the SCU's. When commanded to Mission Mode, the EDF collects and formats telemetry data into PDS Packets, one every four seconds, and transfers them to the PDS. Mission Mode is the only mode in which PDS Packets are generated. PDS Packet Formats are covered in detail in section 3.4.3.6.

All Payload health and status telemetry is combined within the science data packets collected by the PDS. A subset of science health and status telemetry is sent to the EDF, incorporated in the bus Engineering Transfer Frame (ETF) and available for monitoring by the SCT. The subset of telemetry includes: Instrument Temperatures, PDS Logic Voltages, and Instrument Discrete Status. (Note: This is only an indication of SCU relay status, not a positive response from a transducer or relay switch within the Payload.)

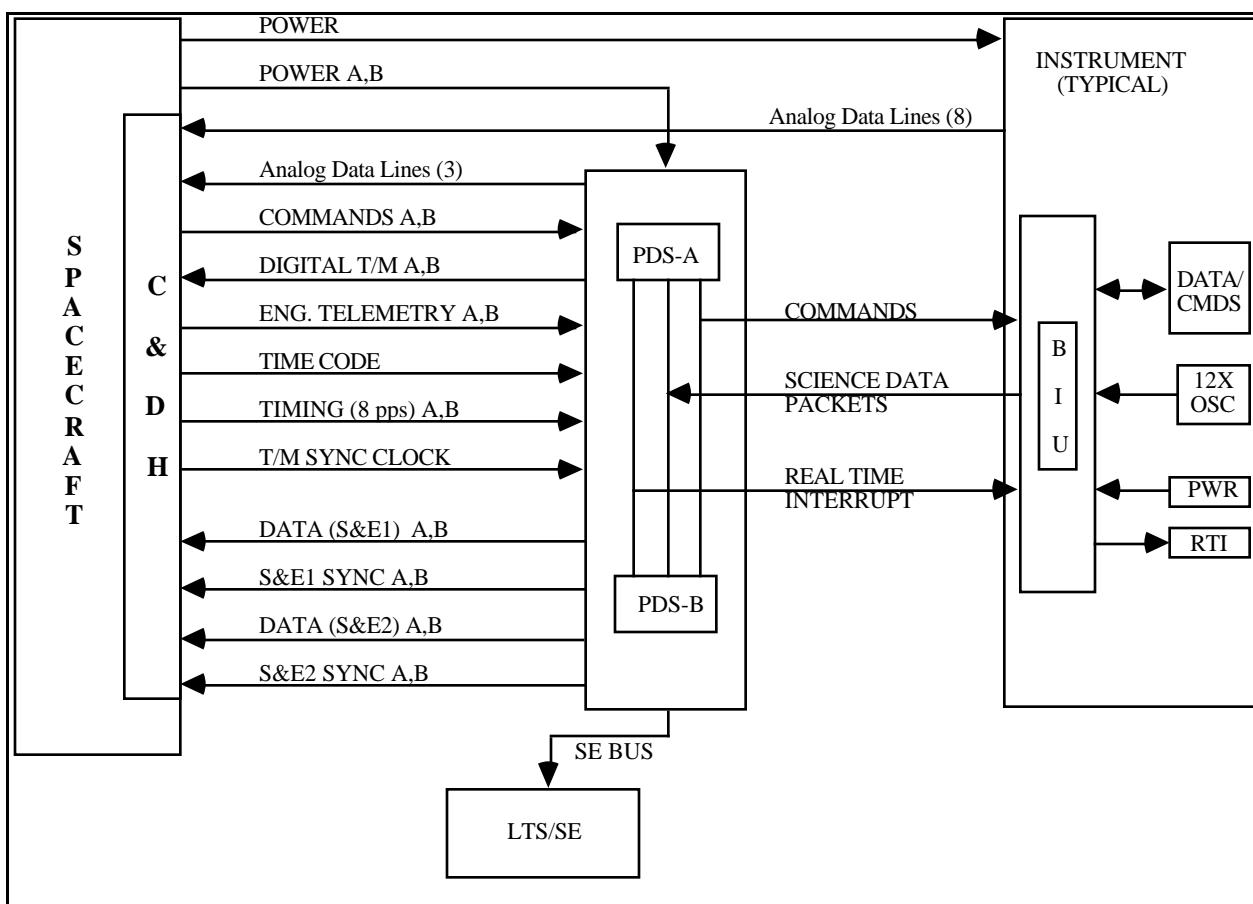


Figure 2.2.2-5 Payload Subsystem Functional Block Diagram

2.2.2.6 Telecommunications Subsystem

The functional block diagram of the Telecommunications Subsystem is shown in Figure 2.2.2-6.

The EDF provides serial interfaces for receiving telemetry and signal-to-noise ratio data from each CDU, as well as, a continuous 64 kHz oscillator monitor clock from each CDU.

RF Switch Interfaces. The RF switches supply digital discrete position telemetry to the EDF.

Transponder Interfaces. Each Transponder sends analog and digital discrete telemetry points directly to the EDF. Telemetry indicating the type of data routed to the Transponder is supplied via the XSU serial telemetry interface.

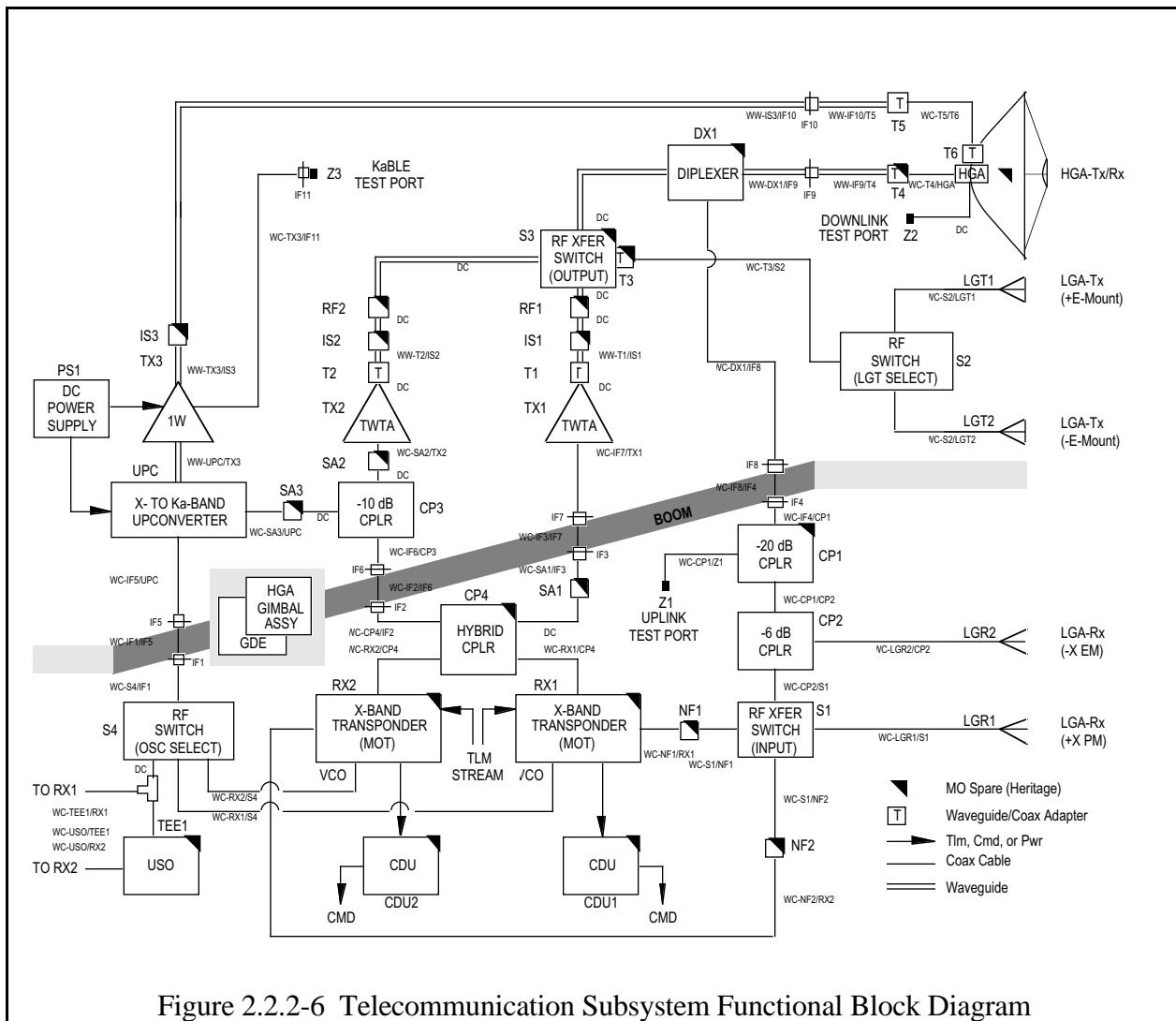


Figure 2.2.2-6 Telecommunication Subsystem Functional Block Diagram

2.2.2.7 Propulsion (PROP) Subsystem

A schematic of the Propulsion Subsystem is shown in Figure 2.2.2-7. Sufficient telemetry is provided to assess the state-of-health, consumables status, and the performance of both propellant systems.

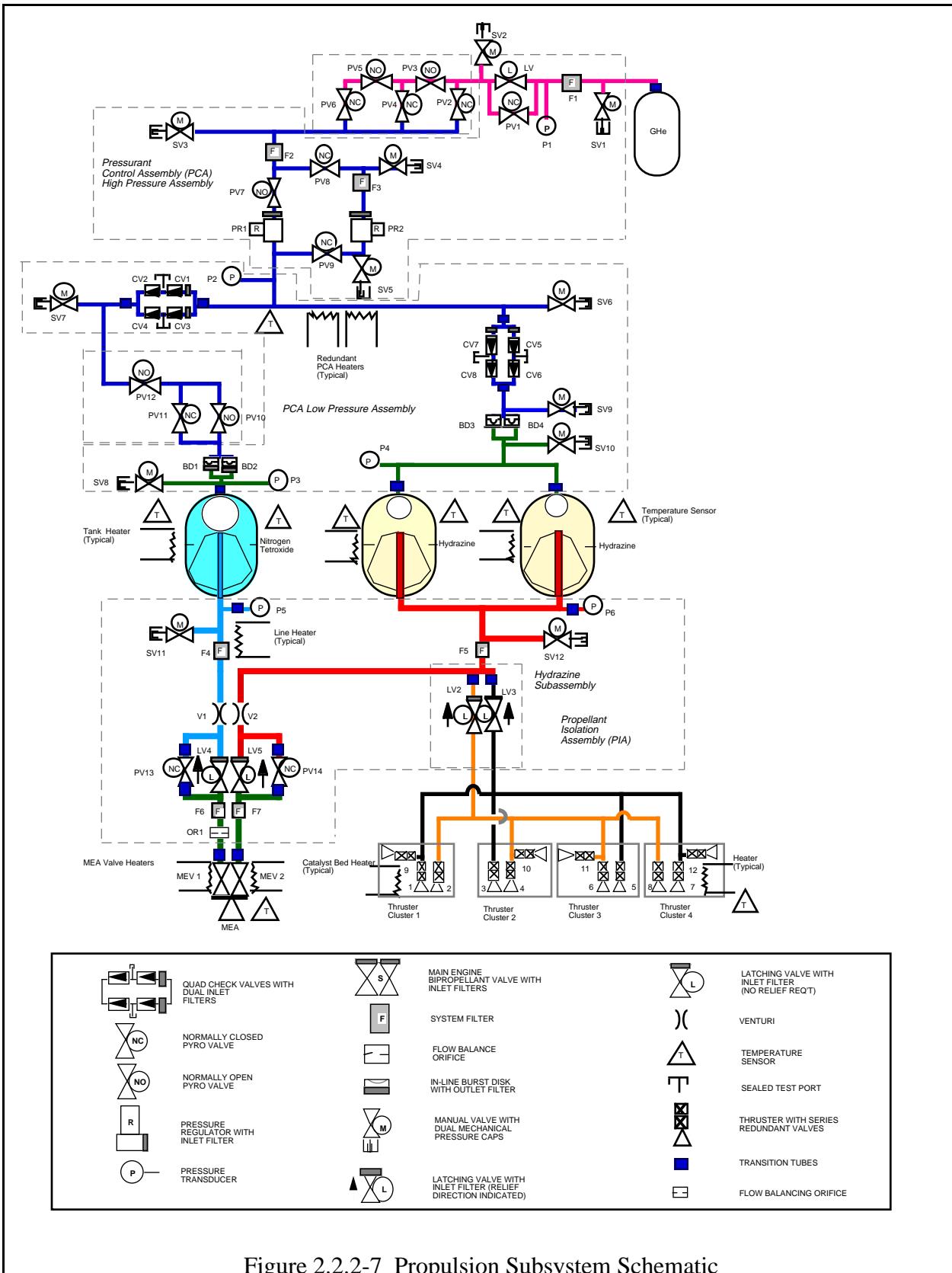


Figure 2.2.2-7 Propulsion Subsystem Schematic

2.2.2.8 Structures & Mechanisms Subsystem

The Structures & Mechanisms Subsystem is shown pictorially in Figure 2.2.2-8. The following paragraphs give a brief description of the units from which telemetry will be processed.

The Solar Arrays are controlled by the Solar Array Gimbal Drive Electronics (S/A GDE) which has a SIB and SOB in the CIU, and CIX POB bits controlling power and redundancy. The control SCP has access to the output buffers for commanding rate, position, power, side. Both SCP's read position data from the SIB at 2 Hz rate. The control SCP reads from the SIB first. Three data words are read from the SIB. The words indicate: 1) GDE status 2) azimuth - speed, direction, and position and 3) elevation - speed, direction, and position.

The High Gain Antenna Gimbal Drive Electronics (HGA GDE) has a SIB and SOB in the CIU for receiving status and controlling position. Pulse discrete through CIX POB's command power and redundancy. Only the control SCP has access to the buffers. The highest rate of SIB and SOB transfers is 2 Hz, which occurs only during mapping phase of the mission. After initiating a SIB transfer (Output Register Begin), the control SCP must wait 4 milliseconds for the first word.

Input Status and Position Format. The SCP gets 3 input words from the GDE in response to an Output Register Begin to the GDE SIB. The CIU or CIX lowers its start signal to the GDE, which interrogates the optical encoder for shaft positions. The minimum time for fresh position data to be clocked from the optical encoder to the GDE is 3.9 milliseconds. The GDE then drops its transfer signal and the first word is clocked out to the CIU in 0.2 milliseconds. The GDE raises its transfer signal as the first word is clocked out.

Status and shaft position are returned from the GDE's. The first word shows the active GDE side and azimuth and elevation motor status. Bits 7 & 8 are not used, and bit 15 is always 1. The second word shows azimuth position; the third word shows elevation position. The 14-bit shaft positions are unsigned integers, ranging from 0 to 360 degrees, with the LSB value (bit 13) equal to $360 \text{ degrees} / 16384 = 0.022 \text{ degrees}$. Bits 14 and 15 of words 2 and 3 are always 0 (zero).

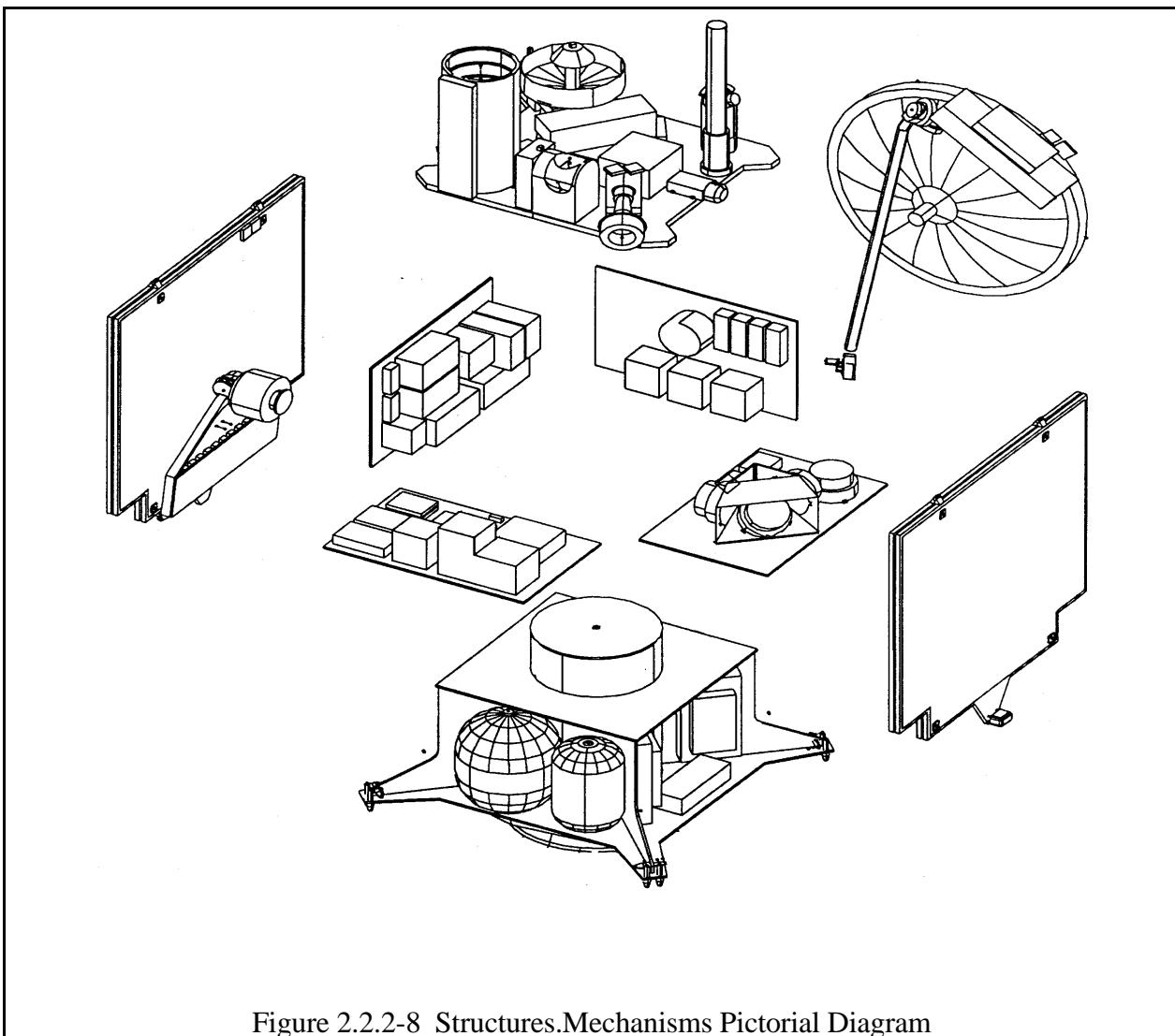
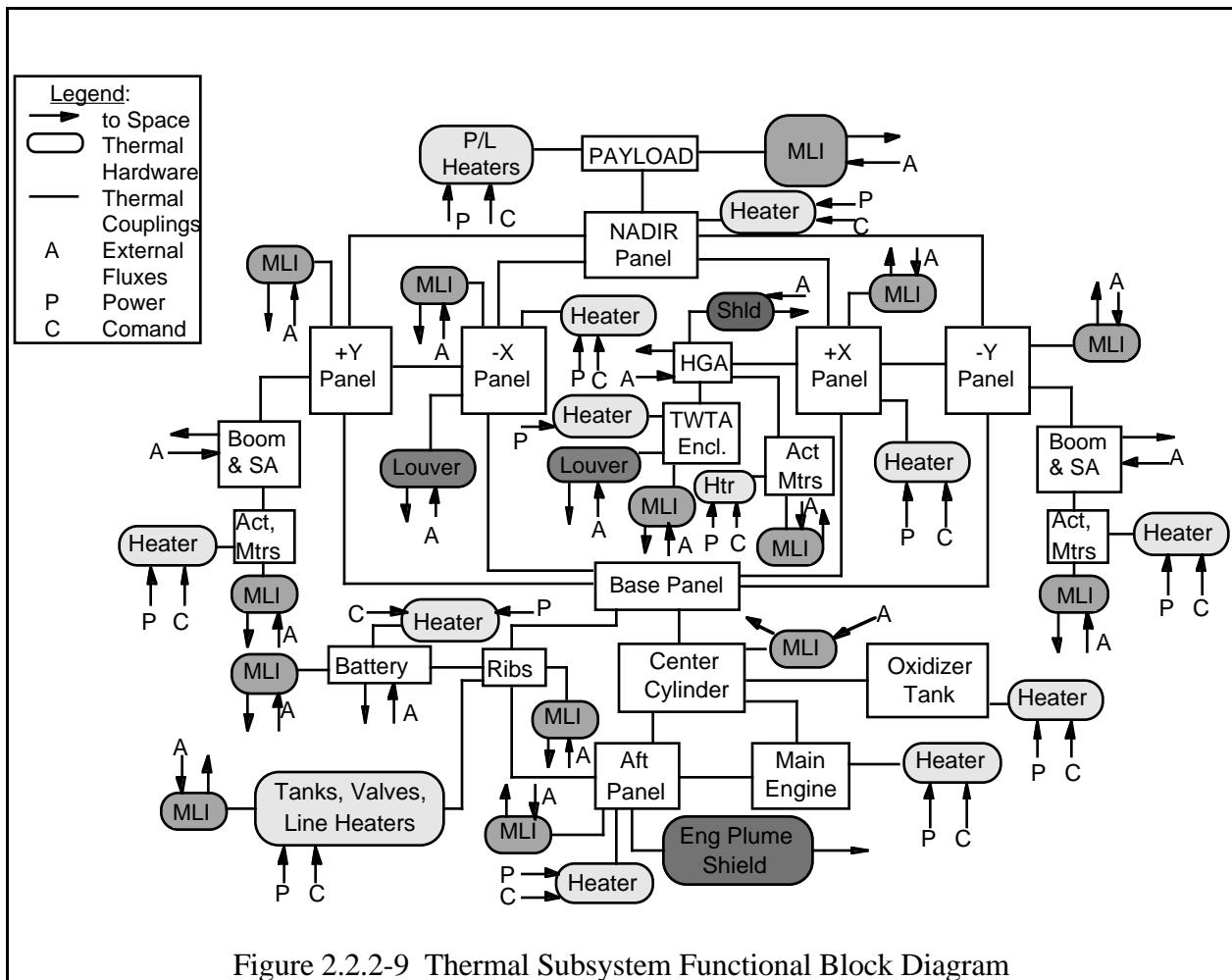


Figure 2.2.2-8 Structures.Mechanisms Pictorial Diagram

2.2.2.9 Thermal (THERM) Subsystem

The EDF provides 32 inputs for interfaces to thermocouples for Low-Level Analog Telemetry. The input signal voltages are in the range of 0.000 to 0.03125 volts (31 millivolts). An active amplifier is included in the EDF design to generate the 0.0 to 5.1 volt range required for input to the A/D Converter. This amplifier will have an EOL maximum gain error of 2.8%. The functional block diagram of the Thermal Subsystem is shown in Figure 2.2.2-9.



2.3 PAYLOAD INSTRUMENT TELEMETRY

Instrument Interfaces. Instrument health and status telemetry and science data interfaces to the Spacecraft Bus C&DH (and EDF) are handled primarily by the government furnished Payload Data Subsystem (PDS). This interface is described in several documents; PDS Functional Requirements, PDS to Instruments Interface Requirements and PDS to Mission Operations System Interface Specification.

A subset of the instrument health and status telemetry is sent directly to the C&DH (EDF) for incorporation in the S/C Bus Engineering Transfer Frame as described in section 2.2.2.5. Figure 2.2.2-5 shows the interface between the Spacecraft Bus (C&DH) and the Payload Instruments via the Payload Data Subsystem.

3.0 DETAILED TELEMETRY DESCRIPTION

3.1 ENGINEERING DATA ACQUISITION

The C&DH Engineering Data Formatter (EDF) receives, engineering housekeeping data from all spacecraft bus units and packetizes this data for combination with the science data in the government-furnished Payload Data System. The EDF also converts the collected data into serial data streams for routing to the XSU and the Transponder or SSR. The contents and rates of these telemetry data streams are selectable by command. The EDF Interface Diagram is shown in Figure 3.1.1-1.

3.1.1 Telemetry Sources & Destinations

The Engineering Data Formatter collects telemetry from spacecraft hardware sources, formats and time stamps it, and sends portions of the formatted data to the XSU, PDS, and SCP's. The EDF has 4 operational modes: Emergency, Mission, Engineering, and Dwell, with downlink data rates of 10 bps, 250 bps, 2000 bps, and 2000 bps (dwell), respectively. These modes will be discussed in detail later. A functional block diagram of the EDF is shown in Figure 3.1.1-2. SCPs are both, EDF-data sources and data sinks. The EDF sends data to both SCP's in all operational modes.

The control SCP issues a single-word command to the XSU, via a CIU SOB, to control paths from data sources (PDS and EDF) to the data sinks (Transponder and SSR).

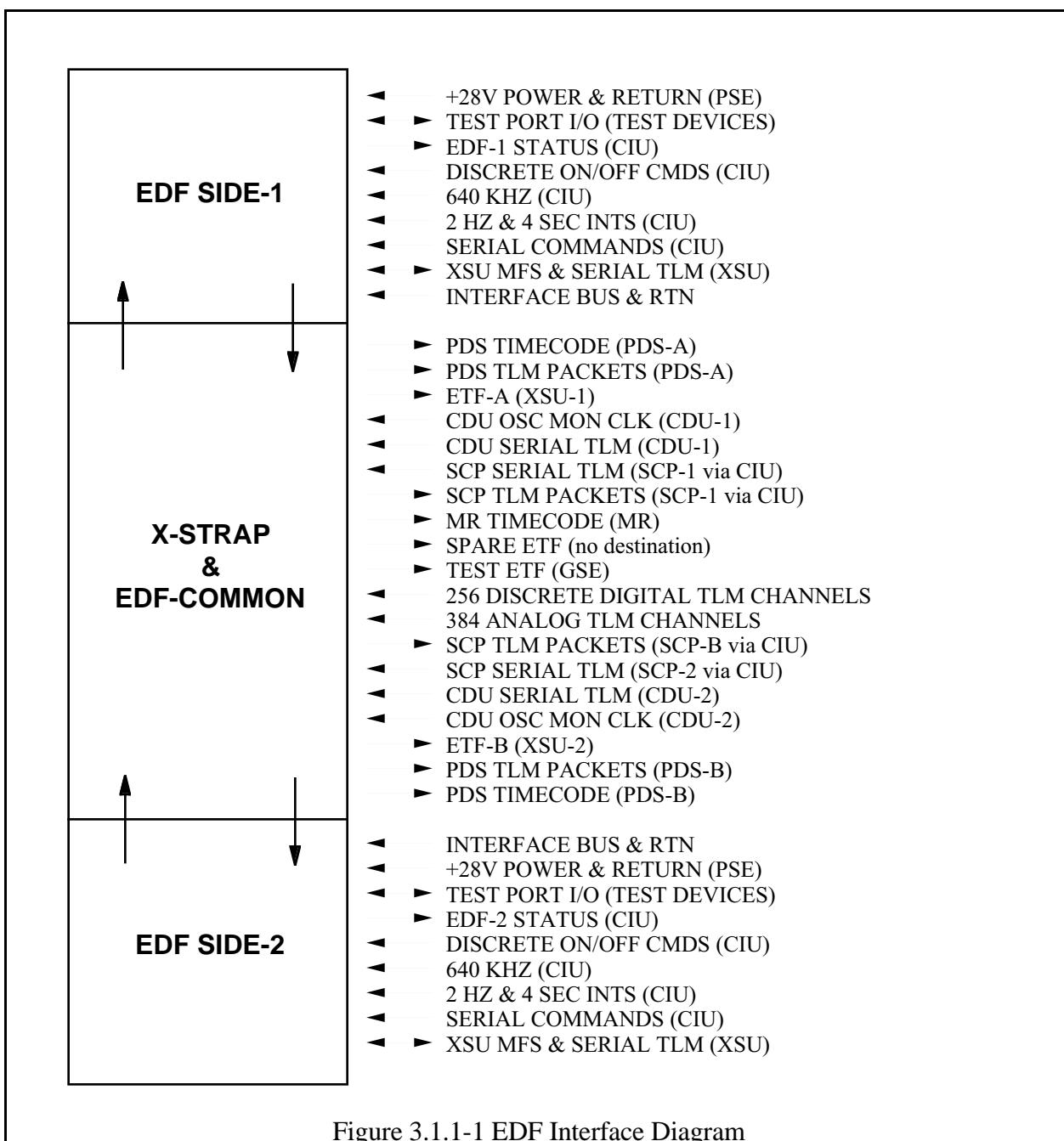
3.1.2 MSB/LSB Convention

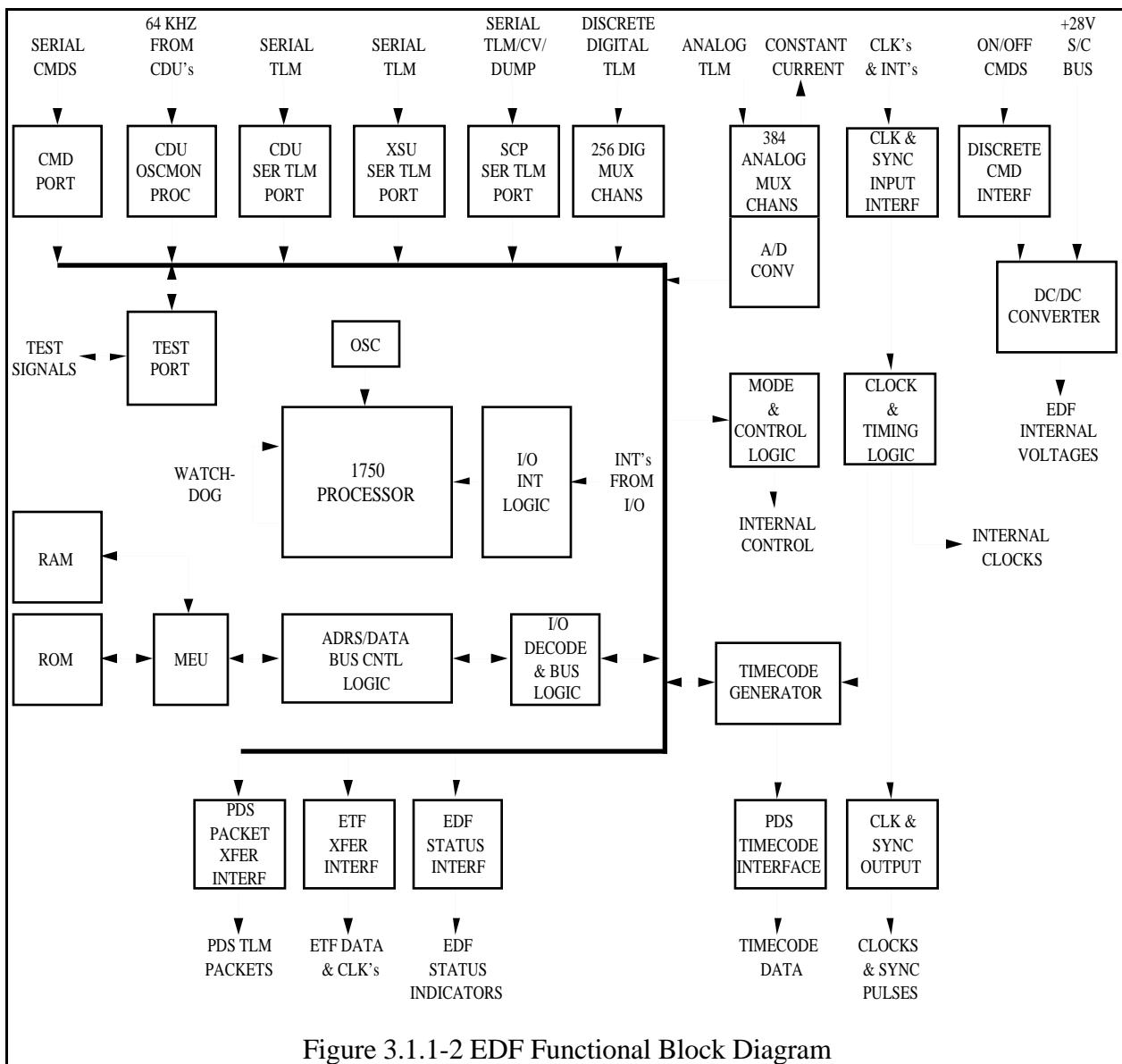
All references to Engineering Data bytes or words shall utilize the following convention unless otherwise stated.

- Bit 0 = Most Significant Bit (MSB)
- Bit 7 for Bytes = Least Significant Bit (LSB)
- Bit 15 for Words = Least Significant Bit (LSB)

3.1.3 Analog Telemetry

The EDF accepts a total of 384 inputs for analog telemetry. Ten of these inputs are used for EDF Self-Check/calibration channels. The remaining 374 analog channels are available for connection to analog telemetry sources on the spacecraft. The EDF will accept three types of analog telemetry inputs designated as 1) Active (or High Level) Analog, 2) Passive Analog and 3) Low Level Analog. The EDF shall multiplex the Analog Telemetry Inputs such that internal selection of any of the Analog Telemetry channels results in its application to the A/D Conversion circuitry on the active EDF side. The first level of multiplexers shall be powered at all times. A failure on one EDF side will not affect operation on the other EDF side. All analog telemetry data is converted to an 8-bit digital format as described in the following sections.





3.1.3.1 Active Analog Telemetry

Active Analog Telemetry consists of spacecraft sources producing signals in the range of 0.0 to 5.1 DC volts. Active Analog Telemetry signals are switched through the Analog Multiplexers in the EDF and applied directly to the A/D Conversion Circuitry on the active EDF side. The EDF will provide 160 inputs for Active Analog Telemetry sources, four of these dedicated to the EDF Active Analog Telemetry Self-Test function.

3.1.3.2 Passive Analog Telemetry

Passive Analog Telemetry sources are resistive sensors such as potentiometers or thermistors. When sampling a Passive Analog Telemetry source, the EDF will apply a constant current of 0.5

milli-amps (0.3% BOL/ 2.8% EOL) to one end of the sensor. The EDF provides a return which is connected to the non-measurement side of the sensors.

Upon applying the 0.5 milli-amp current source to a Passive Analog Telemetry sensor and accounting for parameters associated with the EDF multiplexers, a voltage is produced in the range of 0.00 to 5.1 Volts DC at the A/D Conversion circuitry input. The EDF provides a total of 192 channels for Passive Analog Telemetry sensors including one dedicated EDF calibration/ self-test point.

3.1.3.3 Low Level Analog Telemetry

The EDF provides 32 inputs for interfaces to thermocouples for Low-Level Analog Telemetry. The input signal voltages will be in the range of 0.000 to 0.03125 volts. An active amplifier is included in the EDF to generate the 0.00 to 5.1 Volt range required for input to the A/D Converter. This amplifier has an EOL maximum gain error of 2.8%.

3.1.3.4 A/D Conversion

The EDF contains A/D Conversion circuitry on each of its redundant sides providing conversion of the Analog samples to an 8-bit digital format. In order to access an Analog Telemetry Channel, EDF Software will execute three Programmed I/O instructions. The first of these is a Programmed I/O Write instruction containing the address of the selected channel to the A/D Converter Board. EDF Hardware responds to this Command by selecting the appropriate Multiplexer path allowing the analog signal to be routed to the A/D Converter. A minimum time period of 85 microseconds will elapse prior to execution of a subsequent Analog Telemetry Programmed I/O Command. Once this time duration has expired, EDF Software executes the "Start Conversion" Command which initiates the A/D conversion process.

A minimum of 50 microseconds will elapse during the conversion and the output data stabilization. Once this time has elapsed, a Programmed I/O Read Command is executed with the same Analog Channel address as used in the initial Programmed I/O Write Command which will transfer the converted 8-bit digital data word to the Processor.

3.1.3.5 A/D Accuracy, Range, & Resolution

The EDF A/D Conversion circuitry converts the Analog samples to digital format with a resolution of 8 bits per sample. Samples are digitized having a voltage range of 0.00 to 5.1 Volts. Each quantum step represents 20 millivolts. The digitized output is inserted into the telemetry format MSB first. The accuracy of the A/D conversion circuitry will be 1 LSB at BOL and 2 LSB at EOL.

Each EDF side generates four precision analog voltages for calibration and self-check of the analog multiplexer and A/D Converter circuitry. Each voltage is permanently connected through a separate multiplexer path. The voltages are maintained to an accuracy of 0.1% BOL and 0.2% EOL. The nominal values of these calibration voltages are +1.28V, +2.56V, +3.84V and +5.10V.

3.1.4 Digital Telemetry

The EDF provides 256 inputs for Discrete Digital Telemetry. The inputs are configured into groups of eight channels forming an 8-bit telemetry word. Each group of eight channels is assigned a unique address for identification for EDF programmability. Each side of the EDF is capable of accessing all of the Discrete Digital Telemetry channels. A single failure on either EDF side will not affect operation on the other side.

In order to acquire a set of Digital Telemetry input data, two Programmed I/O Commands are used. First, the Processor executes a Programmed I/O Write Command, with the address associated with the Digital Channel Group to be read, to the Digital Multiplexer Boards. The Boards use this command to select the Multiplexer path, allowing the signals to propagate to the Boards' interface to the Programmed I/O Data Bus. After a minimum of 75 microseconds, the Processor executes a Programmed I/O Read Command using the same address that was used for the Write Command. The Digital Multiplexer then applies the data to the Programmed I/O Data Bus completing the transfer to the Processor.

3.2 TELEMETRY PROCESSING

The EDF design includes a 12.0 MHz Local Oscillator which shall be used as the Processor Oscillator Clock and for the derivation of all Processor Timing. The EDF hardware design will insert Wait-States such that each External Memory access consists of 14 Oscillator Cycles and each Programmed I/O access consists of 28 Oscillator Cycles. These parameters and the specification of the Processor 12 MHz Oscillator will be used for the derivation of all Processor Instruction Execution Timing.

To send data to the SCP's, the EDF has a dedicated 8-word buffer on each bus; when it is filled, the CIU interrupts the SCP on that bus, and the SCP uses standard SIB transfers to bring in the 8 words. The EDF interrupt occurs every second shortly after 2 Hz and 0.25 Hz transition times. Input contents are: Time code/status word, 4 bytes each of 2-second, 8-second, and 32-second subcom data, and a checksum word. Each byte of subcom is a distinct telemetry point from one of the subsystem devices. The number of data points relayed to the SCP's is $4*2 + 4*8 + 4*32 = 168$.

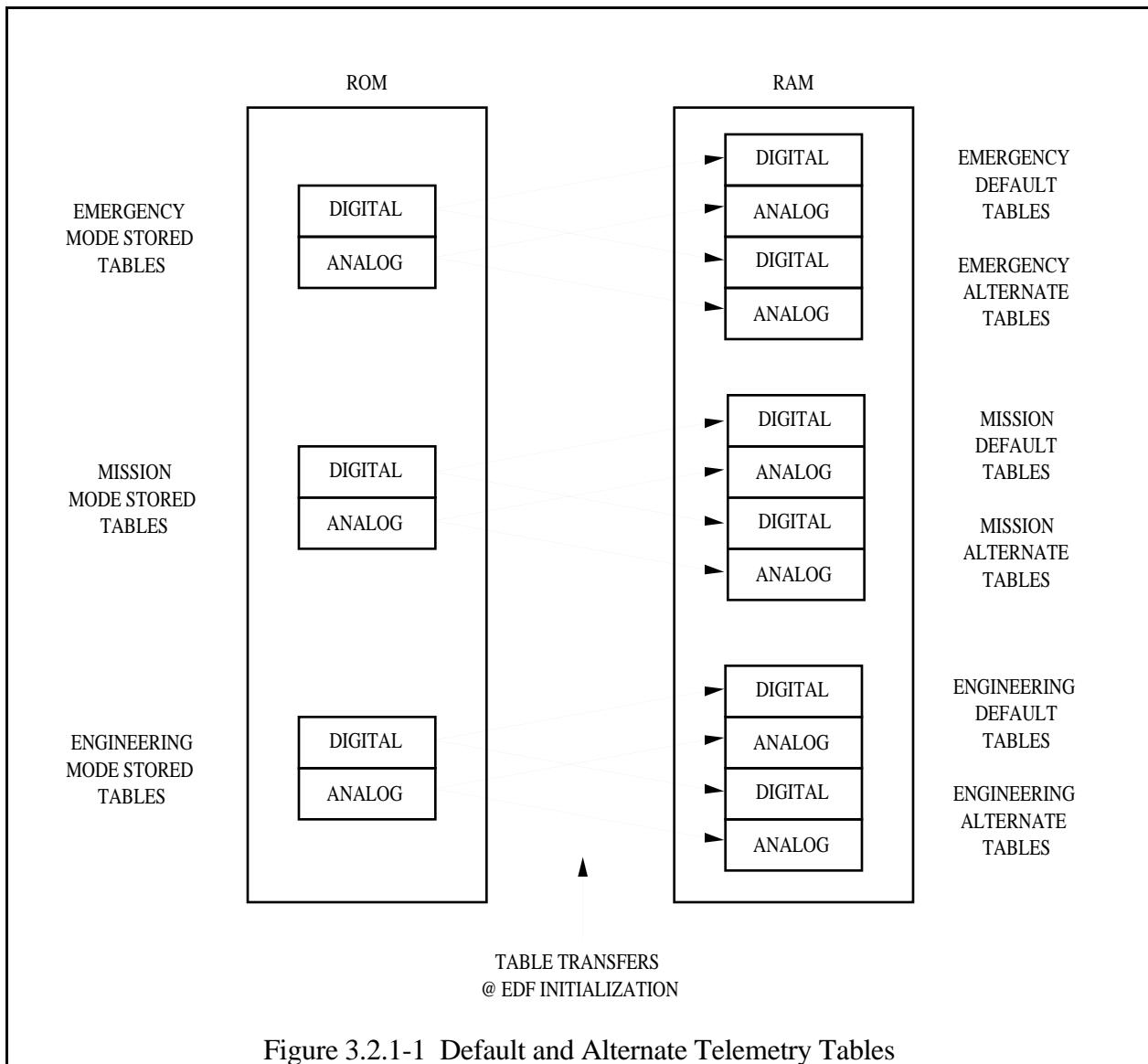
Every second following EDF subcom input, each SCP collects 37 words from memory for output of a 40-word block to the EDF via its BIO-bus EDF SOB. The extra 3 words are a down-linked header word, and two trailing words not down-linked. The header word contains data type, number of words to downlink from the control SCP in mission mode, and 37-word block sequence number for dump data types. The data type may be normal telemetry, memory dump, or CV dump, depending on ground command.

For emergency mode, only 38 words from one ground-selected SCP are down-linked per 112 seconds. For mission mode, only 38 words from both SCP's are down-linked per 4 seconds; if a dump is in progress, they come from one SCP; if normal telemetry, they come from both, with the partitioning logic indicated in the first word. For engineering mode, 38 words from control and non-control SCP's are alternately down-linked, one 38-word block per half second.

3.2.1 Default & Alternate Telemetry Tables

The format and contents of Digital and Analog telemetry contained in PDS Packets (in Mission Mode) and ETF's (in Emergency, Mission and Engineering Modes) will consist of subcoms defined by Tables stored in EDF Memory. Six Tables will be stored in ROM, one each for Digital and Analog Subcom definitions for Emergency, Mission and Engineering Mode. Upon EDF Initialization (via Power-up or Restart Command), each Default Table stored in ROM will be copied to two locations in RAM, designated Default and Alternate as shown in Figure 3.2.1-1. The default addresses contained in these tables are given in Software Users Guide, EDF Flight Software. The EDF will sample Digital and Analog channels according to the addresses in the Default Tables stored in RAM, unless commanded otherwise.

When operating in Mission Mode, the formation of PDS Packets and ETF Segments will use the same Digital and Analog Tables. Additional details of Analog and Digital Table usage may be found in System Requirements Specification, EDF Flight Software. The Structure of the Analog and Digital Tables is shown in Figure 3.2.1-2.



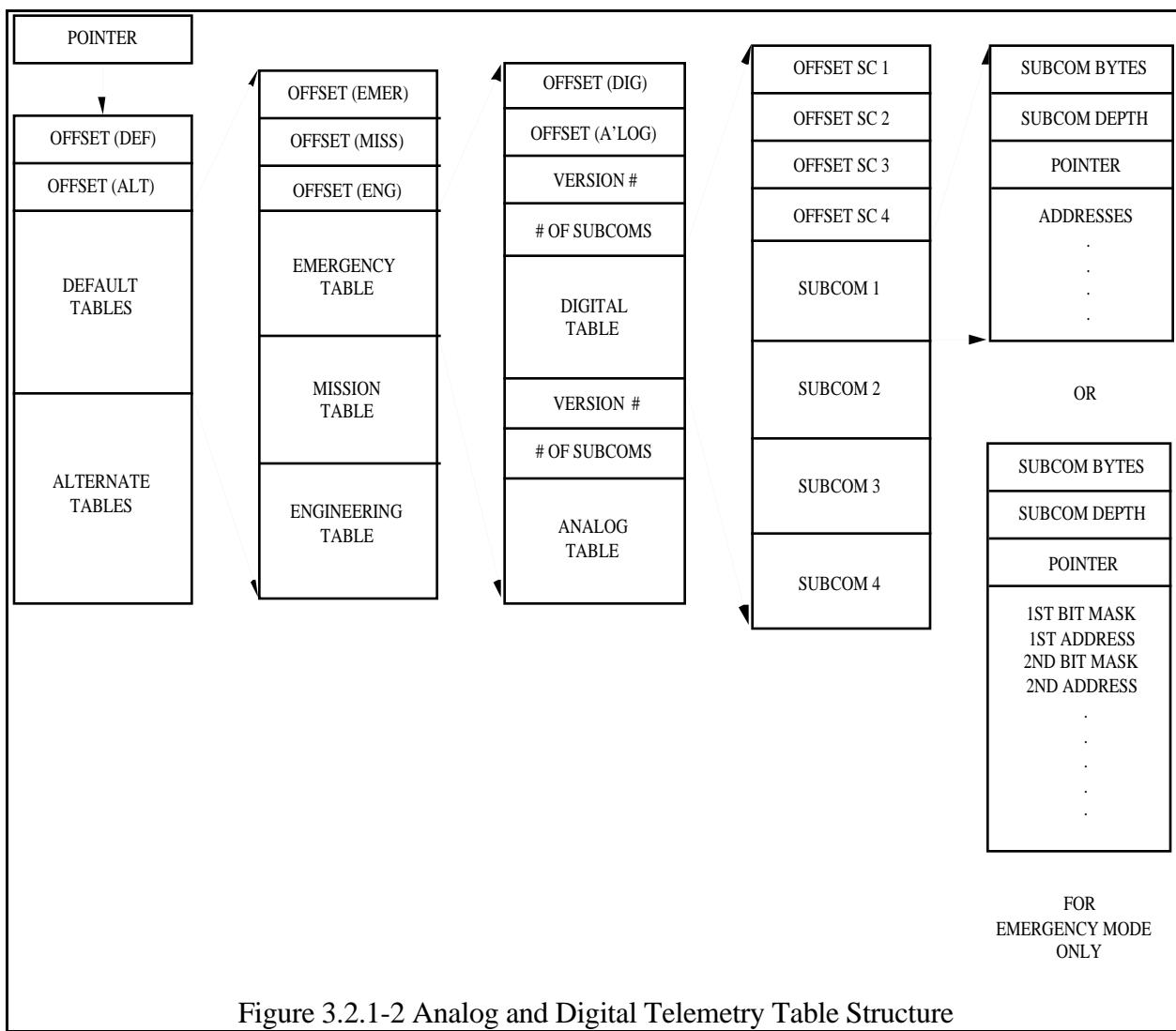


Figure 3.2.1-2 Analog and Digital Telemetry Table Structure

3.2.1.1 Telemetry Table Selection

The EDF accepts a command for Table selections other than the Default Tables. (The Default tables are selected upon EDF initialization as explained above). Using this command, a selected Table may be identified for Digital and Analog Telemetry Subcoms in each EDF Mode. The Tables selected for use via this command will be the "Current Tables". Identification of the Tables in use and the specified Table Version numbers will be included in the EDF telemetry.

3.2.1.2 Telemetry Table Update

Specific commands are available for modifying the definition of the "Alternate Tables". This command may be used to alter the Subcom definition contained in the Alternate Tables from the original default Values. Additional detail on TLM table update commanding is provided in the Command volume of this Dictionary (Volume 2.), and in the Software Users Guide, EDF Flight Software.

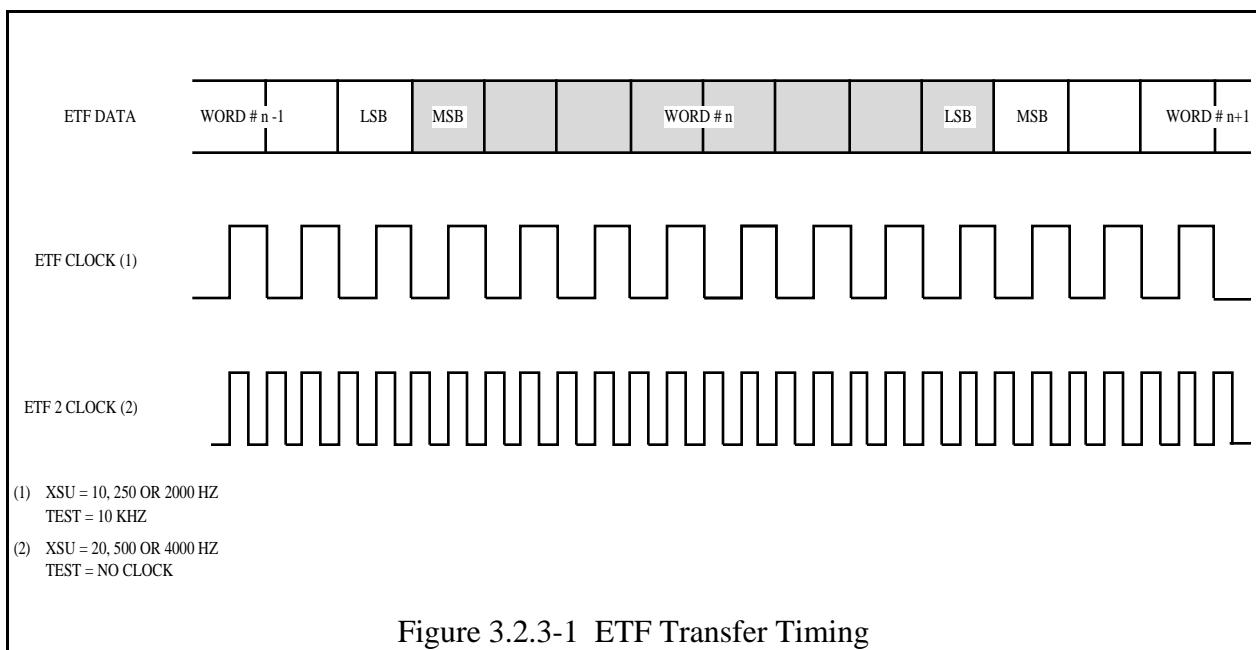
The Default Tables, stored in RAM, may also be altered by the use of RAM Memory Load commands. The use of this capability is not expected during mission operations, however, should an anomaly require this capability it does exist.

3.2.2 Command Verification

Command Verification - The C&DH Subsystem will verify commands and memory loads autonomously and will report the results of the verification by appropriate telemetry. This will be described in detail in the Command portion (volume 2) of the Dictionary, and in the Software Users Guide, SCP Flight Software.

3.2.3 System Clocks & Interrupts

The EDF receives one system clock and two system interrupts; 640 kHz Clock and 1/2-second (2 Hz) and 4-Second Interrupts. The clock/interrupt nomenclature refers to the use of the signal. In this regard, the 640 kHz shall be considered a clock and the 1/2-second and 4-Second signals shall be considered interrupts. The occurrence of the interrupt shall be regarded as the rising edge of the signal at the EDF input. The EDF uses the interrupts to generate all synchronization timing (e.g. Major/Minor Frames) relating directly to the generation of telemetry. The 640 kHz clock is used for the generation of all other timing. The relationship between ETF clock and Data Transfer is shown in 3.2.3-1.



3.2.3.1 Timing and Synchronization

In order to fully satisfy the requirements of the MGS Spacecraft, the EDF is synchronized with other units and is also internally synchronized such that the formatted telemetry is correlated with spacecraft functions and the Timecode. The 1/2 second (2 Hz) and 4-Second interrupts are used to achieve this determinism. Telemetry Synchronization diagrams for Emergency, Mission, and Engineering modes are shown in Figures 3.2.3-2, -3, & -4 respectively.

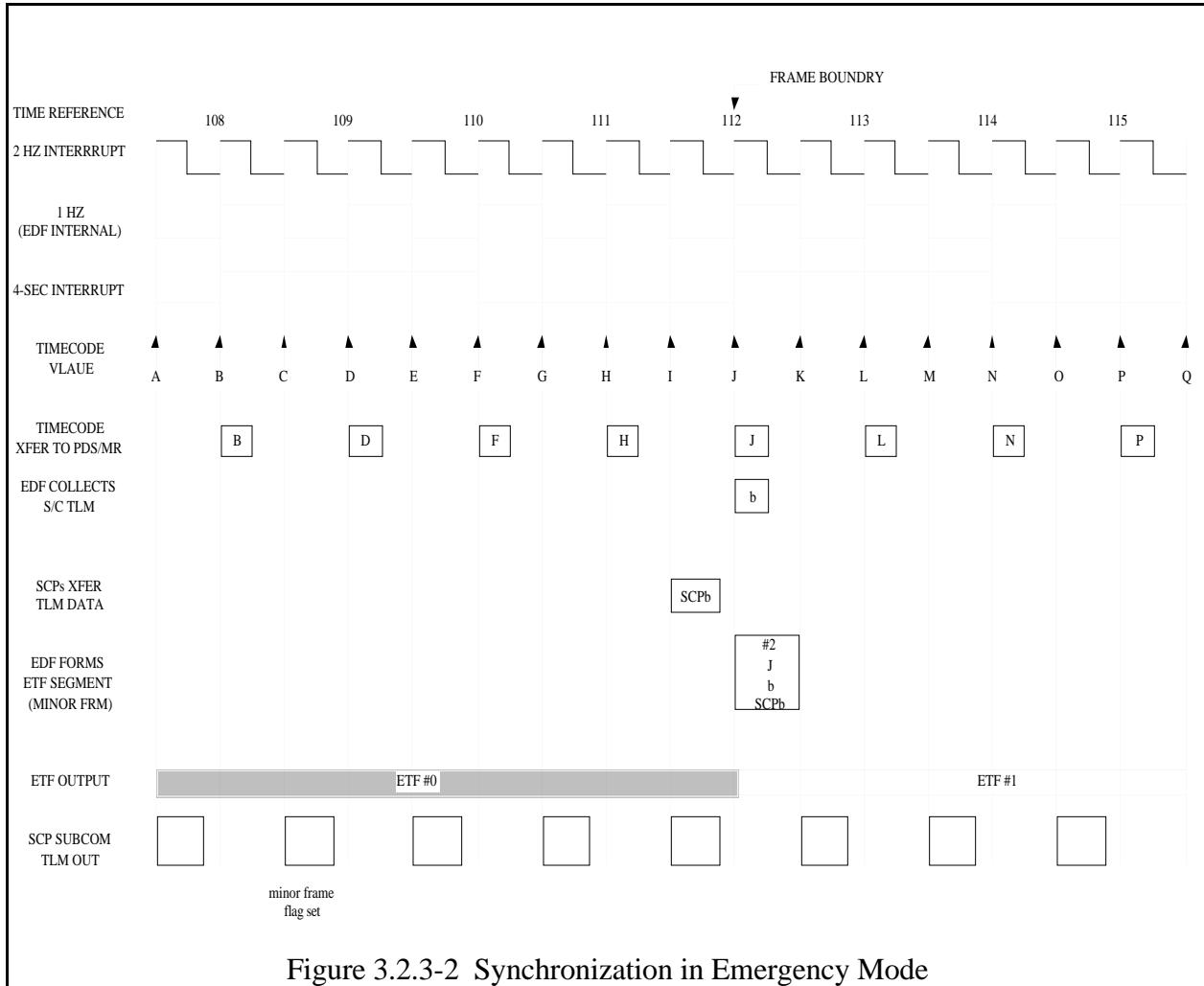
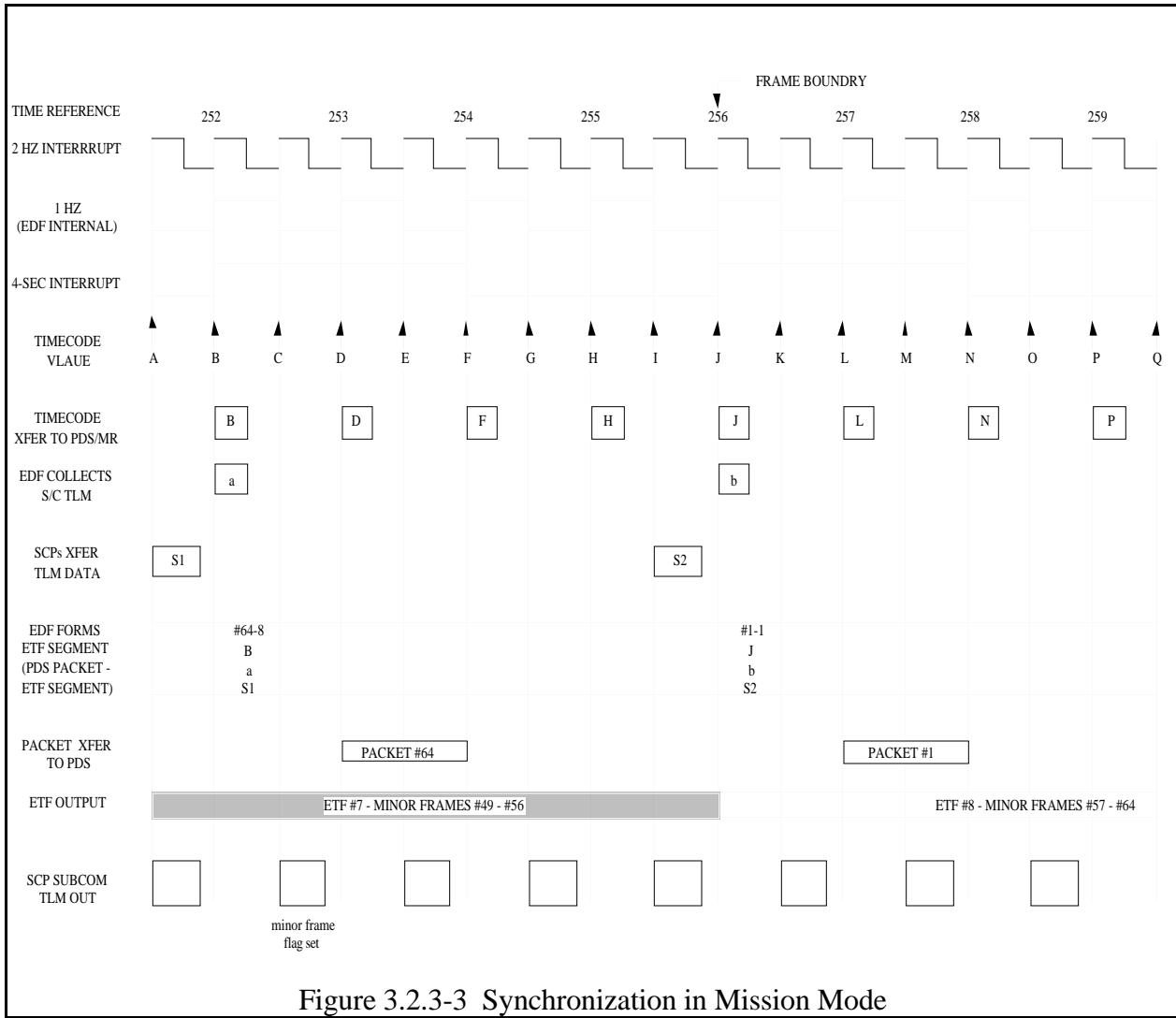


Figure 3.2.3-2 Synchronization in Emergency Mode



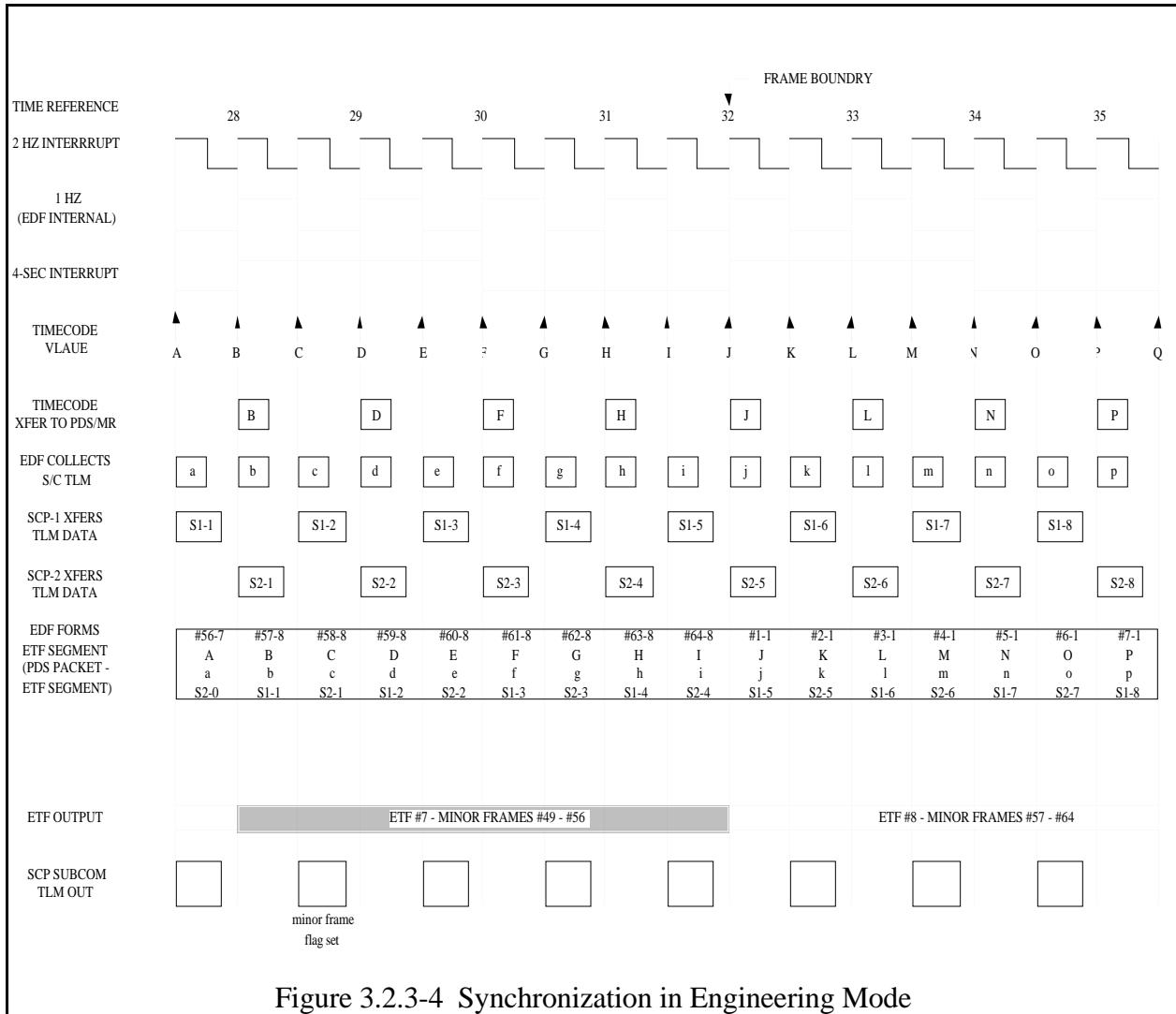


Figure 3.2.3-4 Synchronization in Engineering Mode

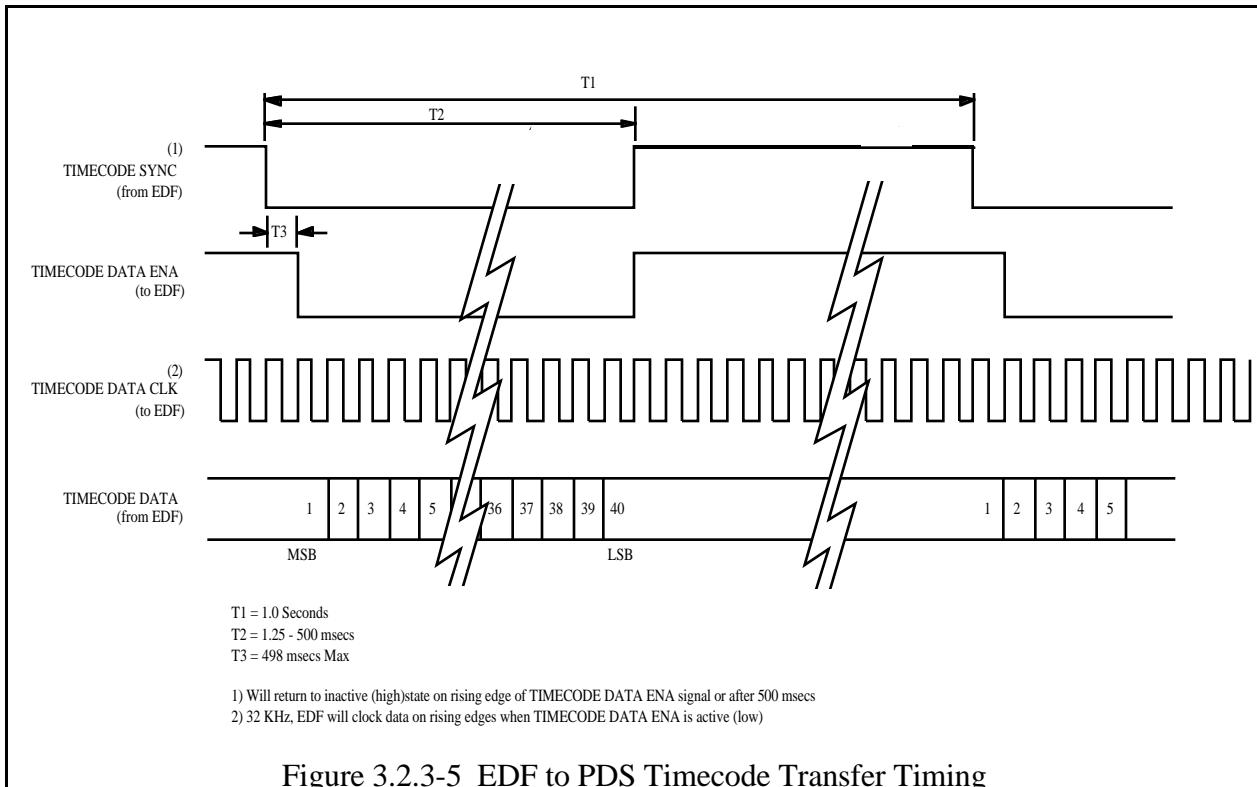
All synchronous processes are based on the occurrence of the 2 Hz and 4-Second Interrupts, including but not limited to the divisions of EDF Major Frames ETF's, and Minor Frames. Certain activities are continuous and not affected by EDF operating mode. These are the "freezing" of the EDF Timecode, which will occur coincident with every 2 Hz Interrupt and the collection, formatting, and transfer of SCP Subcom Telemetry Packets to the SCP, which occur on alternating 2 Hz Interrupts. The generation of the EDF Major and Minor Frames in all non-test operating modes will be such that all Major and Engineering transfer frame boundaries occur coincident with 4-Second Interrupts.

Dependent on the EDF operating mode, telemetry will be collected at the appropriate rate synchronous with the 2 Hz Interrupt as shown in the figures. However, the collection interval of telemetry necessary for the formation of each minor frame will be no greater than 0.5 seconds, independent of EDF operating mode (except for Test and Dwell modes). The SCP's will acquire inputs for spacecraft Attitude Reconstruction at the indicated times and will generate, format and transfer the data to the EDF as shown in the figures, providing a definite relationship to allow for decoding of the data once inserted into the EDF telemetry format. The EDF shall create PDS Packets and ETF Telemetry Segments (Minor Frames) during the periods indicated in the figures. ETF's shall be generated such that they are output from the EDF synchronously with the 2 Hz and 4-Second Interrupts as shown.

In order to synchronize the telemetry data received from the SCP's and the XSU, the EDF will provide Major Frame Sync indicators to these units. The Major Frame Sync for the SCP's will take the form of a flag contained in SCP Subcom Telemetry and will be transferred in the SCP Subcom Telemetry Packets indicated in the figures. The EDF shall generate Major Frame Sync pulses for the XSU prior to the transfer of each block of XSU Serial Telemetry. The XSU will respond by synchronizing its telemetry beginning with Subcom minor Frame #1 for the subsequent telemetry transfer.

3.2.3.2 Timecode Output Interfaces

EDF H/W provides a serial Timecode transfer function to the PDS and MBR units independent of EDF S/W operation and EDF operating Mode. A 1-Second clock is used to initiate these transfers which are synchronous to the occurrences of the 2 Hz and 4-Second Interrupts. This 1-Second clock will latch the complete Timecode value into registers. The data contained in these registers is transferred to the PDS and MBR units as specified in the EDF Performance Specification. The Timecode Values transferred represent the Time at the occurrence of the 2 Hz Interrupt immediately prior to the initiation of the transfer by the EDF. Figure 3.2.3-5 depicts the Timecode transfer timing to the PDS and MBR units.



3.3 TELEMETRY STORAGE

3.3.1 SSR Description

The data storage for the C&DH Subsystem is provided by two Solid State Recorders (SSR's). These recorders are commanded through the XSU to store and playback S&E-1 data received from the PDS, or Engineering data received from the EDF.

The two SSR's are configured and cross-strapped as shown in Figure 3.3.1-1.

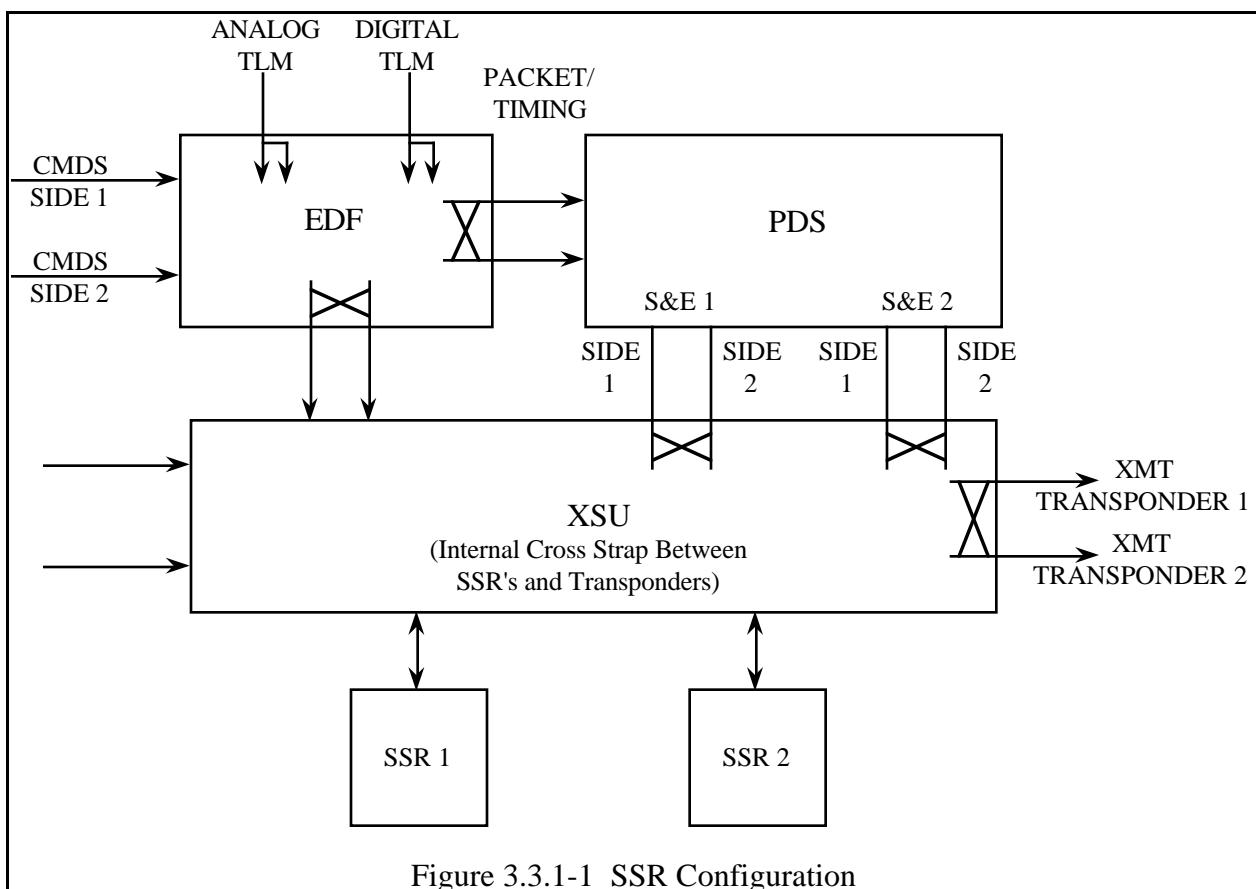


Figure 3.3.1-1 SSR Configuration

3.3.2 SSR Recording

3.3.3 SSR Playback

3.4 TELEMETRY TRANSMISSION

3.4.1 Data Streams and Rates

Telemetry Stream Routing - The C&DH subsystem will route telemetry streams in response to commands. The C&DH transfers real-time telemetry to SSR's, and the Transponders.

The spacecraft provides the following data streams:

1) Science and Engineering 1 (S&E-1): Combined science and engineering data stream that can be recorded for later playback and/or returned in real time. S & E data is Reed-Solomon encoded. The PDS collects data from the science instruments and S/C bus, and can vary the mix of science, PDS, and engineering data. Packetized engineering data is provided by the bus at a rate of 1024 bits every 4 seconds, to allow:

- Correlation of the spacecraft's state, performance, attitude, clock, and environment with the science data,
- Performance of routine health checks,
- Performance analysis of engineering calibrations, propulsive maneuvers, and anomaly investigations,
- Non-real-time bus performance analysis.

2) Science and Engineering 2 (S&E-2): Identical in format to S&E-1, except that higher science data rates are utilized. This stream is designed for real-time transmission only.

3) Spacecraft Bus Engineering (ENG): Engineering-only data stream, assembled by the C&DH for recording and/or real-time transmission. It is intended to provide emergency spacecraft health data, provide real-time routine health checks, and provide data for analysis of events such as engineering calibrations, propulsive maneuvers, and anomaly investigations. Engineering data is convolutionally encoded ($R = 1/2, k = 7$) before transmission.

Table 3.4.1-1 summarizes the telemetry streams and data rates.

Stream	Function	Encoded Symbol Rate	Data Rate (bps)
S&E-1	Record	4000 symbols/sec	3488
S&E-1	Record	8000 symbols/sec	6976
S&E-1	Record	16000 symbols/sec	13952
S&E-1	Record	32000 symbols/sec	27904
S&E-1	Playback	21333.4 symbols/sec	18602.7
S&E-1	Playback	42667.7 symbols/sec	37205.3
S&E-1	Playback	85333.4 symbols/sec	74410.7
S&E-1	Real Time	4000 symbols/sec	3488
S&E-1	Real Time	8000 symbols/sec	6976
S&E-1	Real Time	16000 symbols/sec	13952
S&E-1	Real Time	32000 symbols/sec	27904
S&E-2	Real Time	40000 symbols/sec	34880
S&E-2	Real Time	64000 symbols/sec	55808
S&E-2	Real Time	80000 symbols/sec	69760
ENG	Record	2000 bps	2000
ENG	Playback	8000 bps	8000
ENG	Real Time	10 bps	10
ENG	Real Time	250 bps	250
ENG	Real Time	2000 bps	2000

Table 3.4.1-1 Telemetry Streams & Data Rates

3.4.2 Operational Modes

The Engineering Data Formatter functions in one of the following telemetry modes:

- Emergency Mode
- Mission Mode
- Engineering Mode
- Dwell Mode
- EDF Test Dump Mode* (Non-flight)
- SCP Test Debug Mode* (Non-flight)

3.4.2.1 Emergency Mode

When commanded, the Engineering Data Formatter begins operation in Emergency Mode. In this mode, the EDF sends Engineering Transfer Frames (ETF's) to the Cross Strap Unit (XSU) for transmission at 10 bps and SCP Packets to both SCP's once a second. No data is sent to the PDS in this mode. Emergency Mode is intended to be used in case of problems with communications

with the ground and is automatically commanded by an SCP in the event of a transition to any of the three spacecraft degraded modes (Emergency, Contingency, or Safe-mode). A Telemetry Segment is generated every 112 seconds and data for transmission to the ground is collected automatically from the Control SCP unless commanded to collect data from the Non-Control SCP. This data may be SCP Telemetry, SCP Memory Dump, Audit Queue Dump, or SCP Command Verification (CV) Dump data. If the EDF is commanded to dump its own memory during Emergency Mode operation, it pre-empts the SCP data.

In Emergency mode, Engineering Transfer Frames are 1120 bits (140 bytes) in length, consist of 1 Telemetry Segment, and will be output at 10 bps. See section 3.4.3 for telemetry formats for each mode.

3.4.2.2 Mission Mode

When commanded, the EDF will begin operation in the Mission Mode. In Mission mode, the EDF sends ETF's to the XSU for transmission at 250 bps, SCP Packets to both SCP's once per second, and sends PDS Packets to the PDS once every 4 seconds. Mission mode is intended to be used while the PDS is operational during both cruise and mapping operations. A Telemetry Segment is generated every 4 seconds. Both analog and digital spacecraft telemetry are subcommutated in this mode.

Data for transmission to the ground is collected from either or both SCP's. If SCP-1 is performing a dump, all telemetry is taken from SCP-1. If SCP-2 is performing a dump, all telemetry is taken from SCP-2. Otherwise, a specified number of words, defined by a word in the Control SCP data buffer, is taken from the Control-SCP. The remainder, if any, are taken from the Non-Control SCP. This data may be SCP telemetry, SCP Memory Dump, Audit Queue Dump, or SCP CV Dump data. If the EDF is commanded to dump its own memory during Mission Mode operation, it pre-empts the SCP data.

In Mission mode, Engineering Transfer Frames are 8000 bits (1000 bytes) in length, consist of 8 Telemetry Segments, and will be output at 250 bps. See section 3.4.3 for telemetry formats for each mode.

3.4.2.3 Engineering Mode

Engineering Mode is intended to be used during maneuvers and to provide more detailed information on the state of health of the spacecraft. Packet telemetry for the PDS will not be generated in this mode.

Upon Power-up or in response to command, the EDF will begin operation in Engineering Mode. A Telemetry Segment is generated every half second and analog and digital telemetry is subcommutated in this mode. Data for transmission to the ground is collected from alternate SCP's. On even-numbered frames, data is taken from SCP-1; On odd-numbered frames, data is taken from SCP-2. This data may be SCP Telemetry, Audit Queue Dump, SCP Memory Dump data, or SCP CV Dump data. If the EDF is commanded to dump its own memory during Engineering Mode operation, it pre-empts the SCP data.

Engineering Transfer Frames are 8000 bits in length, consist of 8 telemetry frames and are output to the XSU for transmission at 2000 bps. SCP Packets are generated and transmitted to both SCP's once per second. See section 3.4.3 for telemetry formats for each mode.

See Table 3.4.2-1 which summarizes the spacecraft telemetry modes.

OPERATIONAL & TEST MODES					
	Emer	Mission	Engineer	Dwell	Test
EDF Transmission Rate (bps)	10	250	2000	2000	10000
Segment Interval (secs)	112	4	0.5	0.5	
Packet Interval (secs)	112	16	2	2	0.1
ETF Interval (secs)	112	32	4	4	
Major Frame (secs)	448	256	32	32	
ETF Destination	XSU	XSU	XSU	XSU	Test Port
SCP TLM from SCP to Ground	Yes	Yes	Yes	No	No
SCP Packets to SCP	Yes	Yes	Yes	Yes	No

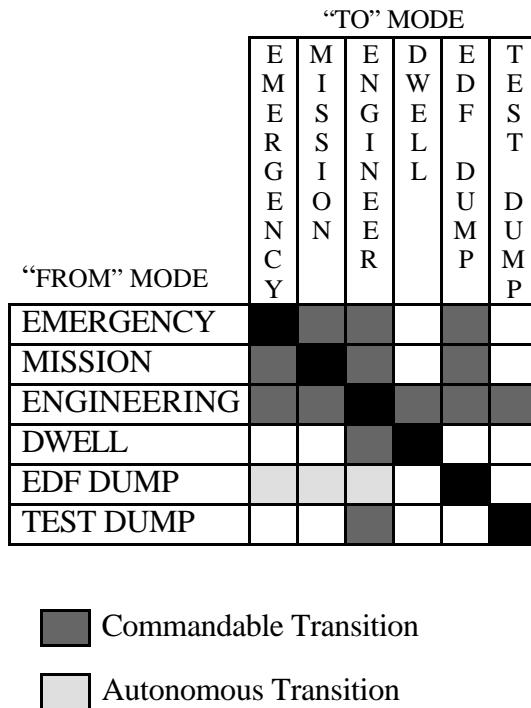
Table 3.4.2-1 Telemetry Modes

3.4.2.4 Dwell Mode

Dwell Mode is intended to be used to provide more detailed information on certain analog and/or digital points on the spacecraft by sampling up to four different addresses at 50 Hz. Normal analog and digital telemetry is suspended in this mode. SCP Subcom Packets will be generated and transmitted to both SCP's once per second, but no SCP data is collected for transmission to the ground.

When commanded, the EDF will begin operation in Dwell Mode. The dwell telemetry data will replace all other telemetry data in the ETF telemetry format. PDS Packets will not be generated in this mode. The Engineering Transfer Frames will be 8000 bits in length, consist of 8 telemetry frames and will be output at 2000 bps.

Figure 3.4.2-1 shows the allowable EDF Mode transitions.

NOTES

- 1) EDF autonomously reverts to previous mode at completion of dump.
- 2) Test Mode may only be entered if the EDF Test interlock is in place.

Figure 3.4.2-1 Allowable Mode Transitions

3.4.2.5 Test Dump & Test Debug Modes

These two modes are only available during ground I&T testing and are included here only for completeness. These modes are inhibited via hardware interlock prior to launch.

3.4.3 Telemetry Formats

3.4.3.1 Major Frame Format

The largest unit of unique telemetry packaging is the Major Frame. A Major Frame represents a complete package of all spacecraft engineering telemetry including all subcommutated parameters sampled at rates down to 1/64 Hz. There is no header or preamble at the start of a Major Frame. The start of a new Major Frame is indicated when the Minor Frame ID (counter) is at zero (0).

A Major Frame contains the same data as:

- 8 Engineering Transfer Frames (ETF's)
- or 16 Cross Strap Unit (XSU) Packets
- or 64 Minor Frames (TLM Segments) (Engineering Mode)

The different subcom maps differ in the number of frames used to transmit the data:

- for Engineering mode, 64 minor frames = 1 major frame
- for Mission mode, 32 minor frames = 1 major frame
- for Emergency Mode, 4 minor frames = 1 major frame
- for Dwell Mode, data is supercommutated by byte and minor frame

The format of a Major Frame is depicted in Figure 3.4.3-1.

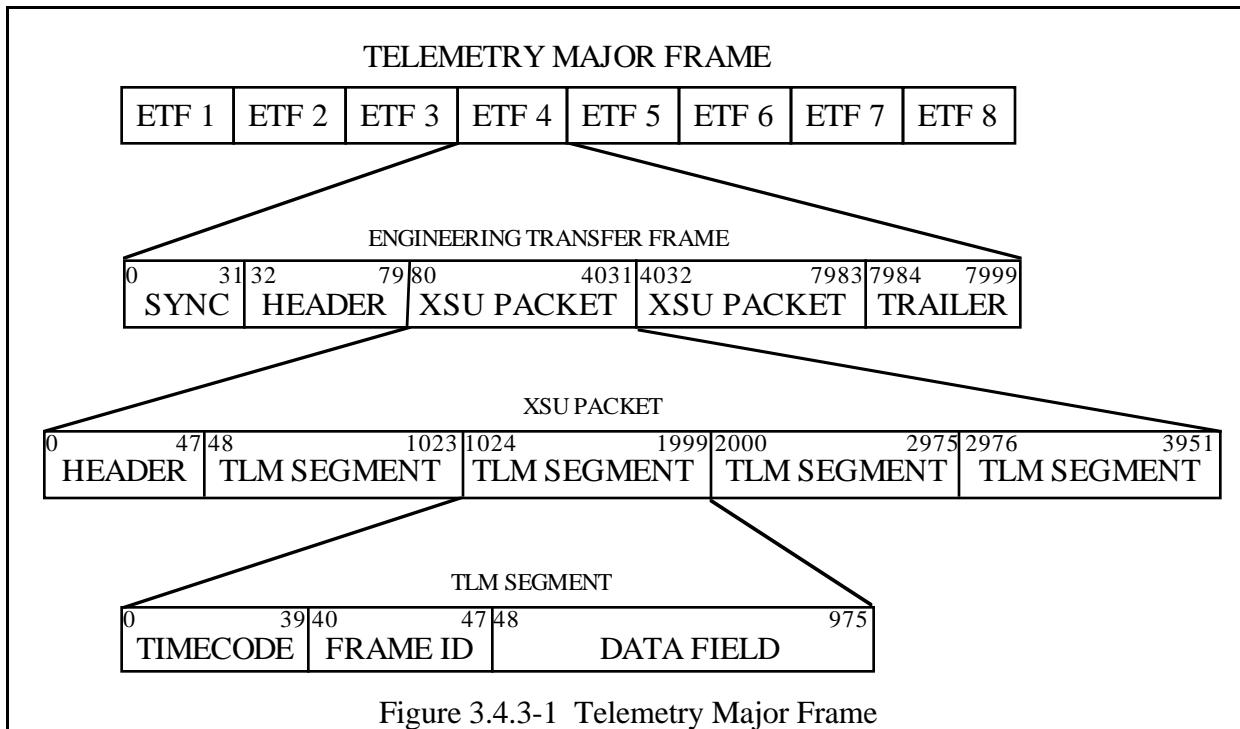
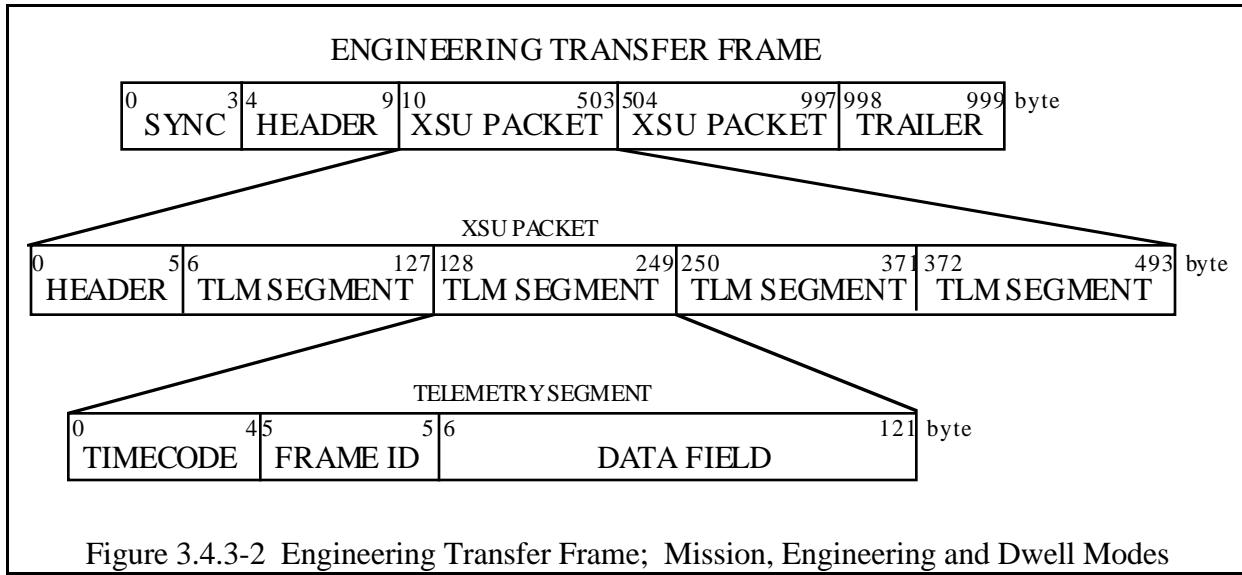


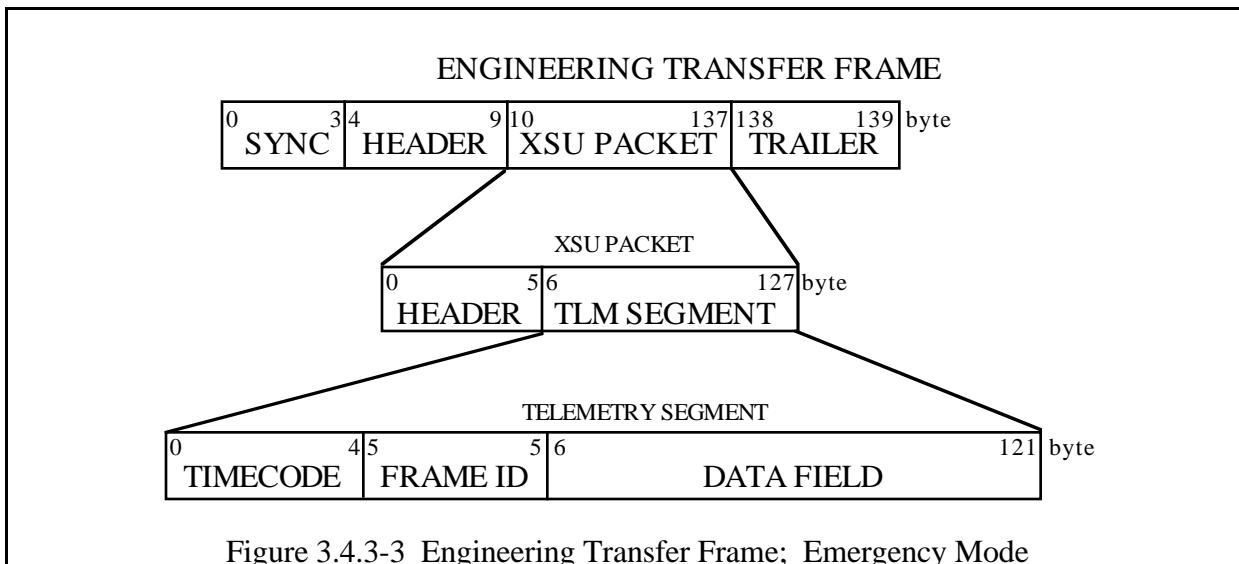
Figure 3.4.3-1 Telemetry Major Frame

3.4.3.2 Engineering Transfer Frame

The Engineering Transfer Frame (ETF) is the unit of telemetry packaging used by the Engineering Data Formatter (EDF) to buffer and timecode telemetry, enabling deterministic data/time reconstruction. The ETF applies only to spacecraft health (engineering data) telemetry modes. Eight ETF's comprise one telemetry major frame. The ETF is 8,000 bits in length in Mission, Engineering and Dwell modes, and 1120 bits in length in Emergency mode (ETF size is reduced in Emergency mode as the standard 8000 bits at 10 bps major frame transmit rate will not provide sufficient data return in Mars orbit before occultation).

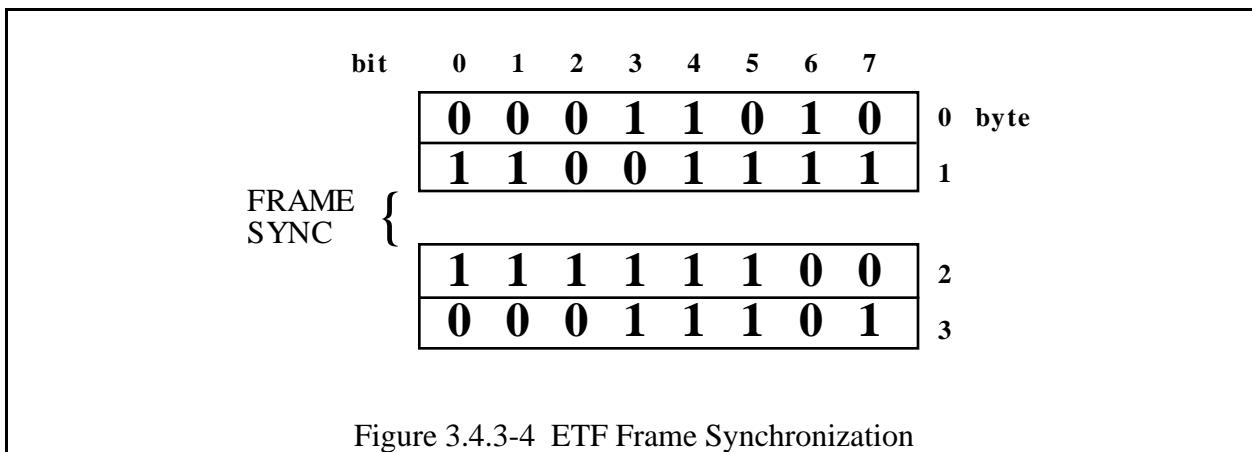
The standard ETF is composed of a 32 bit synchronization code, a 48 bit header, two 3952 bit XSU packets containing the telemetry segments, and a 16 bit trailer for CRC. The ETF format for Mission, Engineering, and Dwell modes is shown in Figure 3.4.3-2. The ETF format for Emergency mode is shown in Figure 3.4.3-3.





3.4.3.2.1 ETF Sync. Format

The ETF Synchronization field consists of 32 bits and complies with the S/C Data Standards document. It has the following hex pattern: 1ACFFC1D. The specific operational relationships between the Synchronization field and the data are shown in the timing and synchronization diagrams in Section 3.2.3.1. The format of the ETF Synchronization field is shown in Figure 3.4.3-4.



3.4.3.2.2 ETF Header

The 48-bit ETF header shall comply with the S/C Data Standards document. The ETF Header consists of 6 bytes of 8 bits each containing the following:

Frame Identifier; (bytes 0 & 1)

- | | |
|---------------------------------|---|
| 1. Version number - | These 2 bits are set to 00 (Version #1). |
| 2. Spacecraft Identifier - | Provides positive identification of the MGS spacecraft, the identifier is: 00 1011 0100 (binary). |
| 3. Virtual Channel Identifier - | Represents the appropriate virtual channel used starting with "000" for channel one and "111" for channel (8). |
| 4. Option Control Field - | This flag signals the presence or absence of the 24-bit Command Link Control Word within the Frame Trailer. This is not used for MGS and is set to "0". |

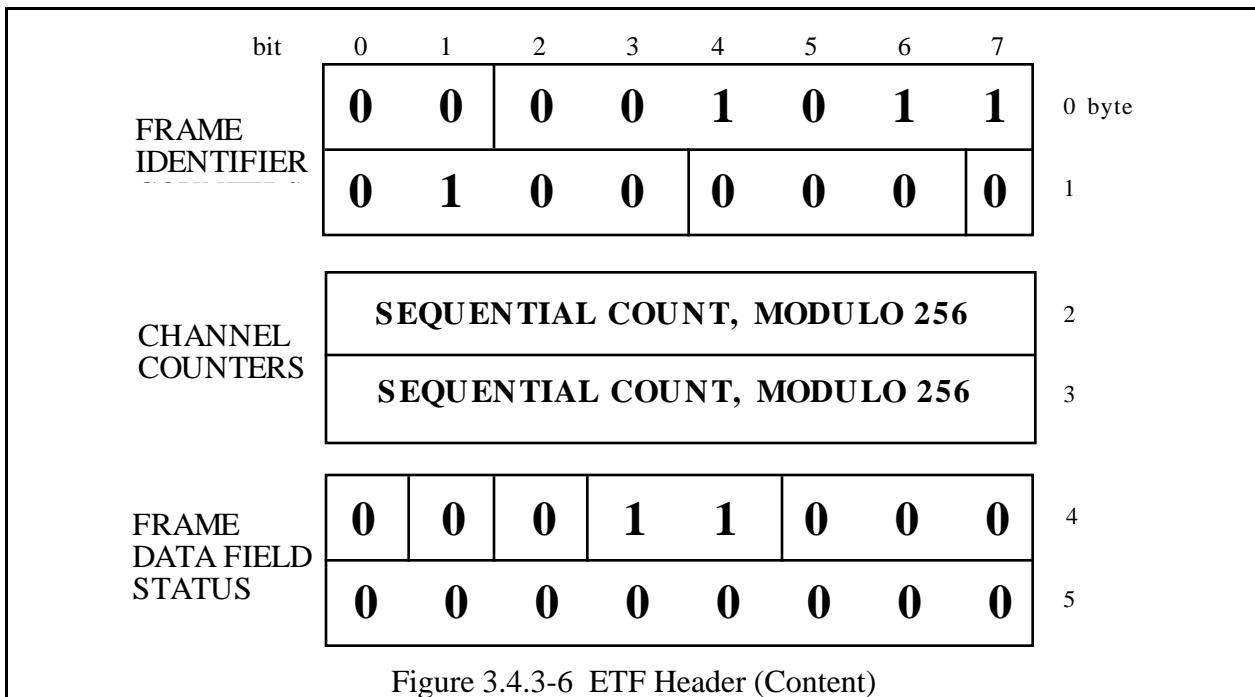
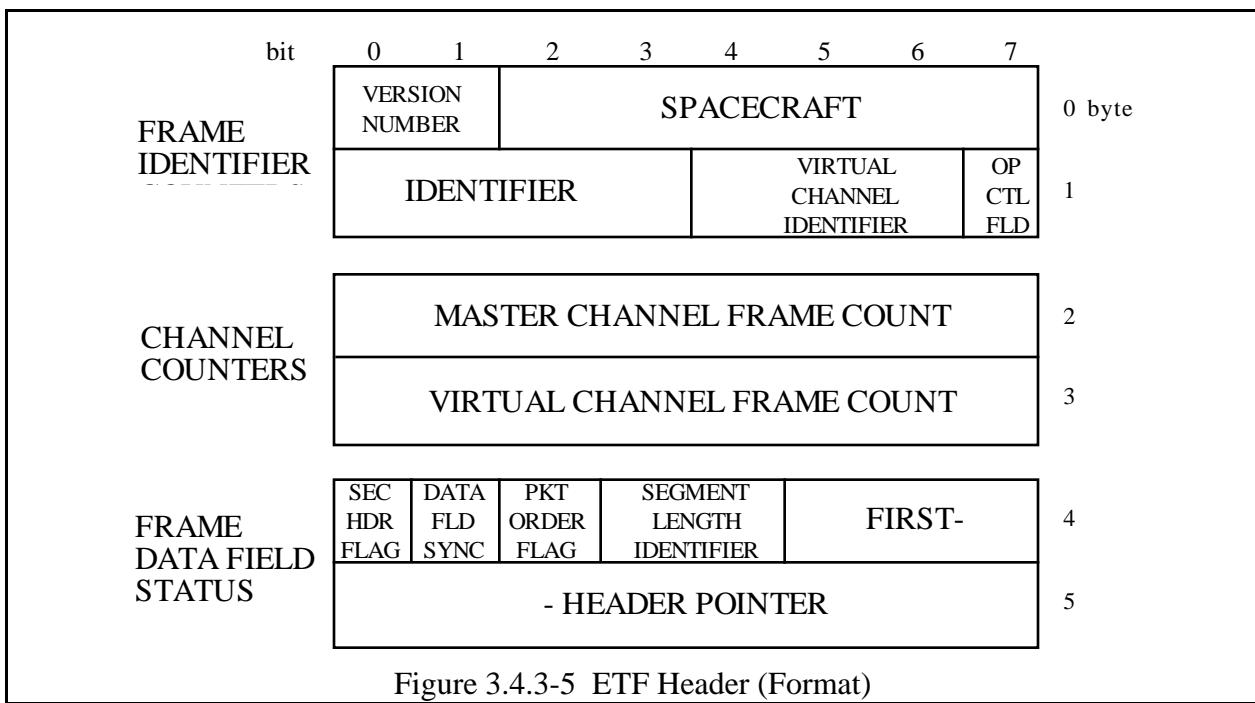
Channel Counters; (bytes 2 & 3)

- | | |
|----------------------------------|--|
| 1. Master Channel Frame Count - | Provides a running count (Modulo-256) of the number of transfer frames that have been transmitted through the spacecraft data channel. |
| 2. Virtual Channel Frame Count - | Provides a running count of the number of transfer frames transmitted through each Virtual Channel. |

Frame Data Field Status; (bytes 4 & 5)

- | | |
|--------------------------------|---|
| 1. Secondary Header Flag - | Indicates the presence or absence of the Secondary header; for MGS this is set to "0". |
| 2. Data Field Sync. - | This bit is set to "0". Source packets will be coincident with the octet boundaries. |
| 3. Packet Order Flag - | This bit is set to "0". Source packets will be "forward" justified, sequence counter for each source will increment in an increasing order. |
| 4. Segment Length Identifier - | Will not be used and will be set to "11". |
| 5. First Header Pointer - | Points directly to the octet in the data field that contains the first octet of the first Packet Header structure in the field. |

See Figures 3.4.3-5 and 3.4.3-6 for layout.



3.4.3.2.3 ETF Trailer

The 16 bit ETF trailer is defined by the following two equations:

$$(1) \frac{x^{16} G(x) + x^k L(x)}{P(x)} = Q(x) + \frac{R(x)}{P(x)}$$

$$(2) FCS = L(x) + R(x) = R(x)$$

The arithmetic is modulo 2.

$L(x) = x^{15} + x^{14} + \dots + 1$

$R(x)$ = Remainder, which is of degree less than 16.

k = Number of bits represented by $G(x)$.

$P(x)$ = The CRC-CCITT generator polynomial = $x^{16} + x^{12} + x^5 + 1$.

$G(x)$ = The message polynomial, i.e., the transfer frame minus the ETF trailer.

This code has the following characteristics:

- a) The 32 bit attached sync marker (PN code) is included in the parity generation of the FCS
- b) The encoder is initialized to the “all-ones” state for each transfer frame.

This code specification is defined in the American National Standard X 3.66-1979.

3.4.3.3 XSU Packet Format

The XSU packet consists of a 48 bit header and four 976 bit telemetry segments, each providing 0.5 second snap-shots of data at 2,000 bps, and 4 second snap-shots of data at 250 bps depending on EDF mode.

3.4.3.3.1 XSU Packet Header

The 48-bit XSU Header shall comply with the S/C Data Standards document. The XSU Header consists of 6 bytes of 8 bits each designated as follows:

Packet Identifier; (bytes 0 & 1)

- | | |
|-------------------------------------|---|
| 1. Version number - | These three bits are set to "000" to identify version 1 as the source packet structure. |
| 2. Spare - | Bit three is a spare and is set to "0". |
| 3. Secondary Header Flag - | Signals the presence or absence of a Secondary Header data structure and is set to "0" for MGS. |
| 4. Application Process Identifier - | Uniquely identifies the individual application process that created the source packet. |

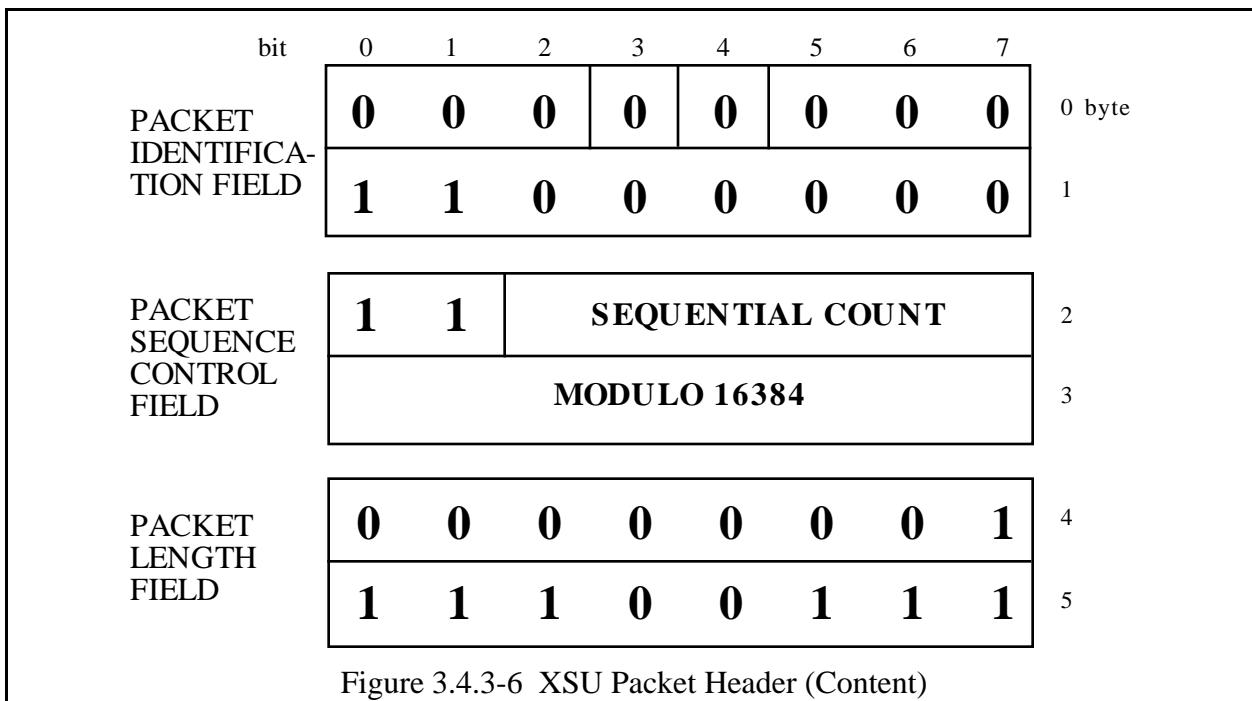
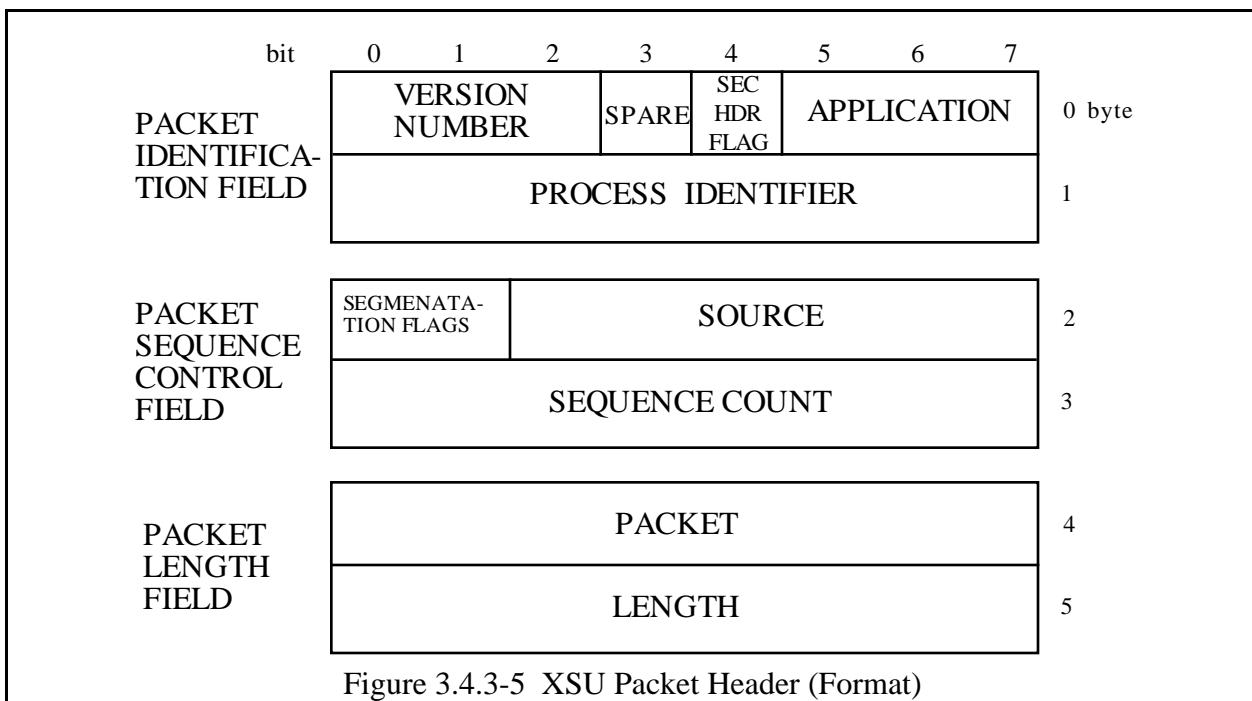
Packet Sequence Control; (bytes 2 & 3)

- | | |
|----------------------------|--|
| 1. Segmentation Flags - | For MGS segmentation will not be performed and these bits are set to "11". |
| 2. Source Sequence Count - | This field contains a straight sequential count (modulo 16384) of each packet generated by each unique source application process on the spacecraft. |

Packet Length Field ; (bytes 4 & 5)

- | | |
|--------------------|---|
| 1. Packet Length - | This field contains a sequential 16-bit binary count "C" of the length (in octets) of the data area structure that is enclosed between the first bit of the Secondary Header and the last bit of the packet. Set to 01E7 (hex).
$C = (\# \text{ of octets} - 1)$ |
|--------------------|---|

See Figures 3.4.3-7 and 3.4.3-8 for layout.



3.4.3.4 Telemetry Segment Format

The Telemetry Segment is 122 octets long in all telemetry modes. Each segment consists of timecode, ID, status, digital telemetry, analog telemetry, and SCP telemetry, CV, Audit Queue, SCP memory dump, or EDF Memory dump fields. See Figure 3.4.3-9 for Telemetry Segment layout.

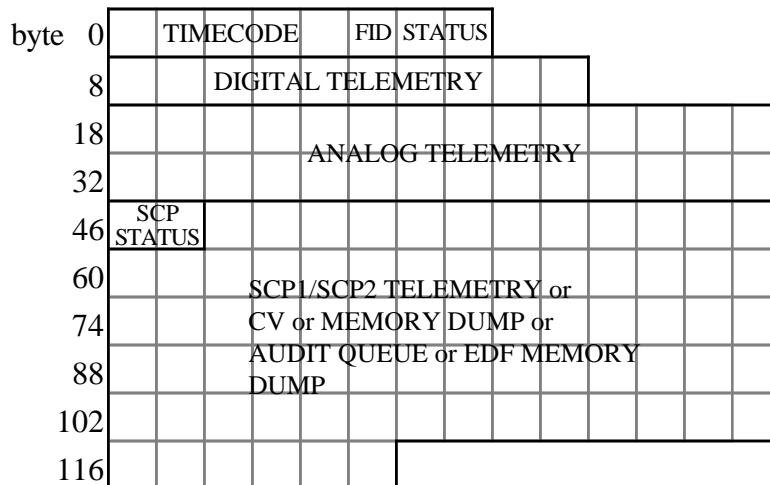
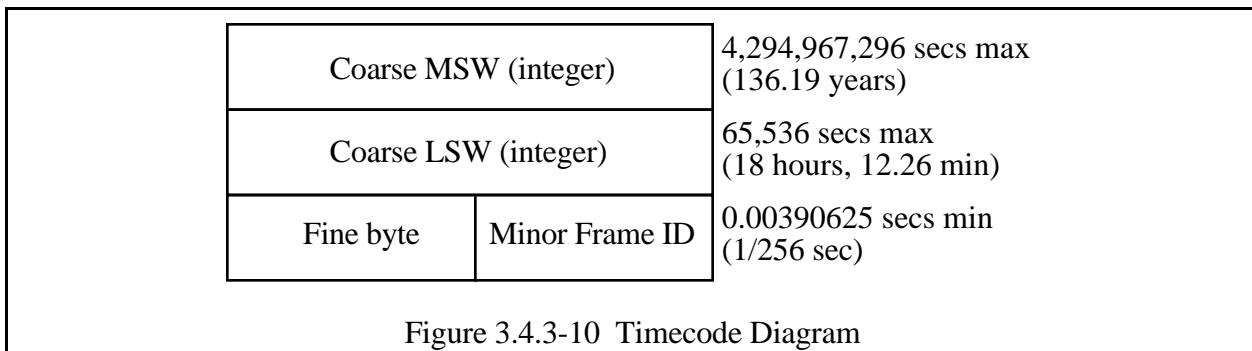


Figure 3.4.3-9 Telemetry Segment (Minor Frame)

3.4.3.4.1 Timecode

The EDF shall generate and maintain the spacecraft Timecode. The Timecode shall consist of 40 bits. The 32 MSB's shall be the Coarse Segment of the Timecode in binary representation with the LSB equal to 1.0 second. The 8 LSB's of the Timecode shall be the Fine Segment and shall represent fractions of a second in binary format with the LSB equal to 4 milliseconds. At power turn-on, the Timecode shall be set to a value of all zeros at the occurrence of the first 4-Second Interrupt following the Power-On-Reset period. The 640 kHz clock, received by the EDF, shall be used for the time base. The Timecode shall be used to maintain the accuracy of this clock.

The EDF provides the capability of setting the Timecode to a specified value via a serial command. The EDF only responds to "Set Timecode" Serial Commands received within a 2-second boundary following the occurrence of any 4-second interrupt. Once such a command is received, EDF software responds by executing the "Set Timecode Coarse Word #1" and "Set Timecode Coarse Word #2" programmed I/O commands. In order to activate the Set Timecode process, EDF software must issue the "Set Timecode" programmed I/O command more than 0.25 seconds prior to the occurrence of the 4-second interrupt. Hardware response to "Set Timecode" commands received within 0.25 seconds prior to the 4-second interrupt may be unpredictable. Upon receiving the "Set Timecode" command, EDF hardware responds by updating the Timecode Coarse Segment to the values loaded by EDF software at the occurrence of the next 4-second interrupt. The Timecode Fine Segment will be set to all zeroes at this time. Figure 3.4.3-10 depicts the timing for the "Set Timecode" process.



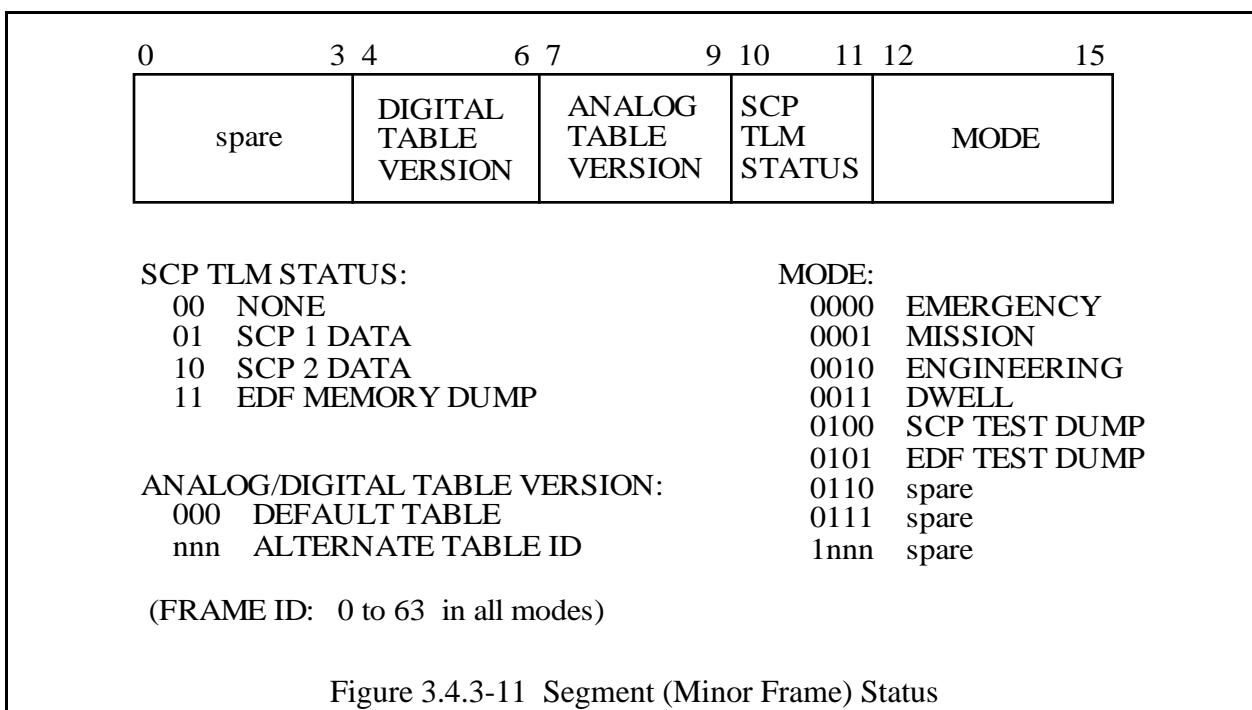
EDF H/W shall provide a mechanism for the transfer of the Timecode value to EDF S/W. The "Read Timecode Coarse Word #1" and "Read Timecode Coarse Word #2" Programmed I/O Commands shall transfer the data directly from the Timecode Counter to the EDF Processor. The Timecode Fine Value shall be latched by H/W at the occurrence of each 2 Hz Interrupt. Execution of the "Read Timecode Fine Value" Programmed I/O Command shall transfer this latched value to the Processor. EDF S/W shall be constrained to read each of the Timecode values outside of a 2 microsecond window centered at the occurrence of 2 Hz Interrupts. The Timecode data may be unstable within this window. The Timecode value transferred to the EDF Processor will represent the value of the Timecode counter at the occurrence of the 2 Hz Interrupt immediately prior to the execution of the Programmed I/O Read Commands.

3.4.3.4.2 Segment (Frame) ID

The lower 6 bits in this octet act as a modulo-64 segment (Minor frame) sequencing counter, where 64 Minor Frames comprise a Major frame.

3.4.3.4.3 Segment Status Code

The bit assignments for the status word are shown in Figure 3.4.3-11.



3.4.3.4.4 Digital Telemetry

80 bits of digital telemetry are subcommutated according to the applicable EDF Digital Telemetry Table. With the exception of Dwell Mode, these bits comprise the first 10 data octets in each segment, regardless of telemetry mode. The subcom definitions for the Digital Telemetry Fields are shown in Table 3.4.3-1.

3.4.3.4.5 Analog Telemetry

28 octets (224 bits) of analog telemetry are subcommutated from the applicable EDF Analog Telemetry Table. With the exception of Dwell mode, these bits follow the first 10 data octets in each segment. The subcom definitions for the Analog Telemetry Fields are shown in Table 3.4.3-2.

DEFAULT DIGITAL SUBCOMS

MODE	NUMBER OF SUBCOMS	NUMBER OF BYTES	DEPTH	FREQUENCY (IN Hz)
EMERGENCY	1	10	1	1/112
MISSION	3	5	1	1/4
		3	4	1/16
		2	16	1/128
ENGINEERING	4	3	1	2
		2	2	1
		3	4	1/2
		2	16	1/8

Table 3.4.3-1 Digital Subcom Definitions

DEFAULT ANALOG SUBCOMS

MODE	NUMBER OF SUBCOMS	NUMBER OF BYTES	DEPTH	FREQUENCY (IN Hz)
EMERGENCY	1	28	4	1/448
MISSION	3	7	1	1/4
		14	4	1/16
		7	32	1/128
ENGINEERING	3	7	4	1/2
		14	8	1/4
		7	32	1/16

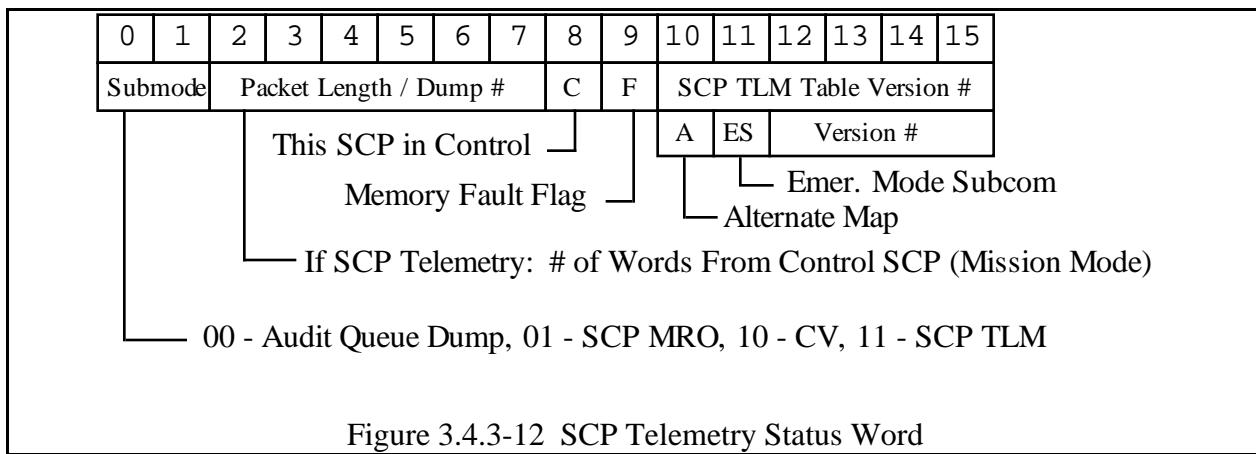
Table 3.4.3-2 Analog Subcom Definitions

3.4.3.4.6 SCP telemetry, Cmd Verification, Memory Dump, or Audit Queue

In the non-dwell modes, 76 octets are allocated to SCP1/2 telemetry, CV, SCP1/2 memory dump, EDF memory dump, or Audit Queue Dump:

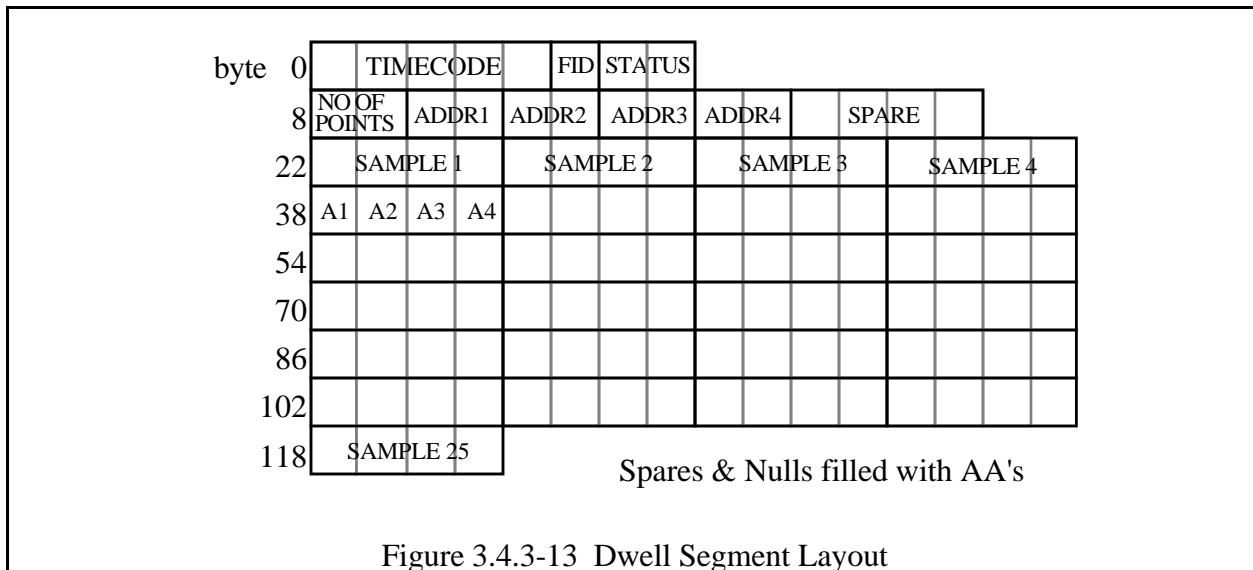
- In Mission Mode, bits 2-7 of the first byte defines the number of bytes to follow from the control SCP. The remainder, if any, is from the Non-control SCP.
- In Engineering Mode, an even segment ID signals telemetry from the SCP1; SCP2 telemetry is contained in segments with odd frame IDs.
- In Emergency Mode, partitioning is commandable between Control and Non-control SCP's.

Memory or CV Dump blocks are 38 words (76 octets) in length, including the status word. A dumping SCP will monitor the EDF mode after sending the first block of dump data; if this SCP determines that the EDF is not dumping its blocks, it will re-send the same dump block during the next 1, 4, or 112 second cycle. This process continues until the EDF mode changes. Then, the SCP sends the remaining blocks during successive cycles. If the other SCP has not been commanded to dump, it continues to output data in its current mode. If both SCP's are commanded to dump, the control SCP goes first, while the other SCP keeps re-sending its first block. When selected, dump data from either SCP receives priority over normal SCP telemetry. An Audit Queue dump frame contains up to seven 5-word Audit Queue Messages; the remainder of the frame is filled with zeros. The SCP Telemetry Status word is shown in Figure 3.4.3-12. This status word is located at the beginning of the SCP telemetry in the PDS packet.



3.4.3.5 Dwell Segment Format

In Dwell Mode, the normal Telemetry Format is pre-empted by the Dwell Segment Format which provides dwell capability for any four EDF discrete digital/analog telemetry channels at a sampling frequency of 50 samples per second. This format is shown in Figure 3.4.3-13.



3.4.3.5.1 Timecode

The Dwell Segment has the same timecode format as that of the Telemetry Segment (Minor frame).

3.4.3.5.2 Segment (Frame) ID; Status Code

The Dwell Segment has the same Frame-ID, and Status formats as the Telemetry (Minor frame) Segment. Two "number of points" bytes follows the status bytes. The next 8 octets list the four spacecraft dwell addresses. The remaining octets sequentially list the dwell data.

3.4.3.5.3 Dwell Channel Addresses

Selected dwell channels are identified by four 16-bit addresses in the segment. The dwell segment contains a total of 25 samples per dwell address (or dwell channel), which are collected in the EDF at a constant rate of 20 milli-seconds per sample. Therefore, the whole segment is collected in 0.5 second. Dwell is available from Engineering Mode only (2 Kbps).

3.4.3.6 S/C Bus Packet Format

The S/C Bus Packet of spacecraft bus health telemetry is only available in EDF mission mode. The S/C Bus Packet is identical to one Engineering Mode Telemetry Segment, with the addition of a 6-octet Primary Header, increasing the total packet size to 128 octets. It is transmitted to the PDS at an average rate of 256 bps (1024 bits every 4 seconds) by the EDF. The identical segment, in ETF format, is simultaneously transmitted to the XSU (for routing as specified by XSU Commands).

The S/C Bus Packet structure is illustrated in Figure 3.4.3-14. The S/C inserts the PDS packet received from the EDF, into the S&E-1 or S&E-2 data stream in accordance with the requirements of the PDS specification.

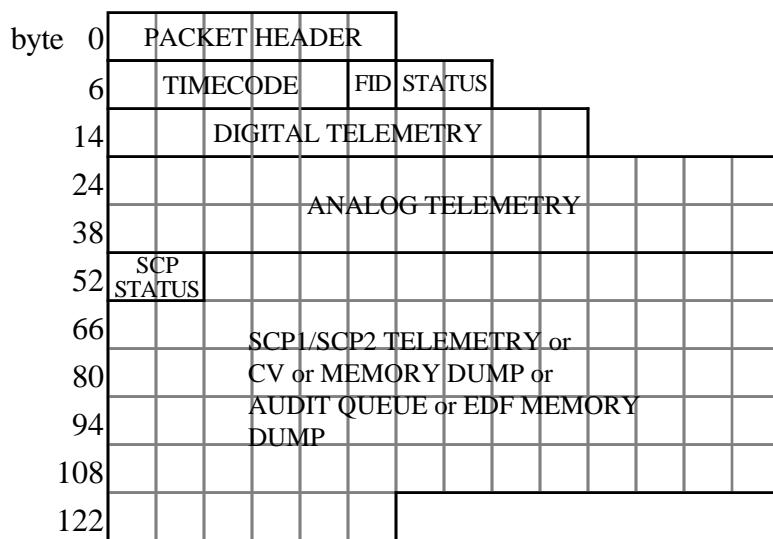


Figure 3.4.3-14 S/C Bus Packet Layout

3.4.3.6.1 S/C Bus Packet Header

The 6-octet (48-bit) S/C Bus Packet header is illustrated in Figures 3.4.3-15 and 3.4.3-16. The S/C Bus Packet Header consists of 6 bytes of 8 bits each designated as follows:

Packet Identifier; (bytes 0 & 1)

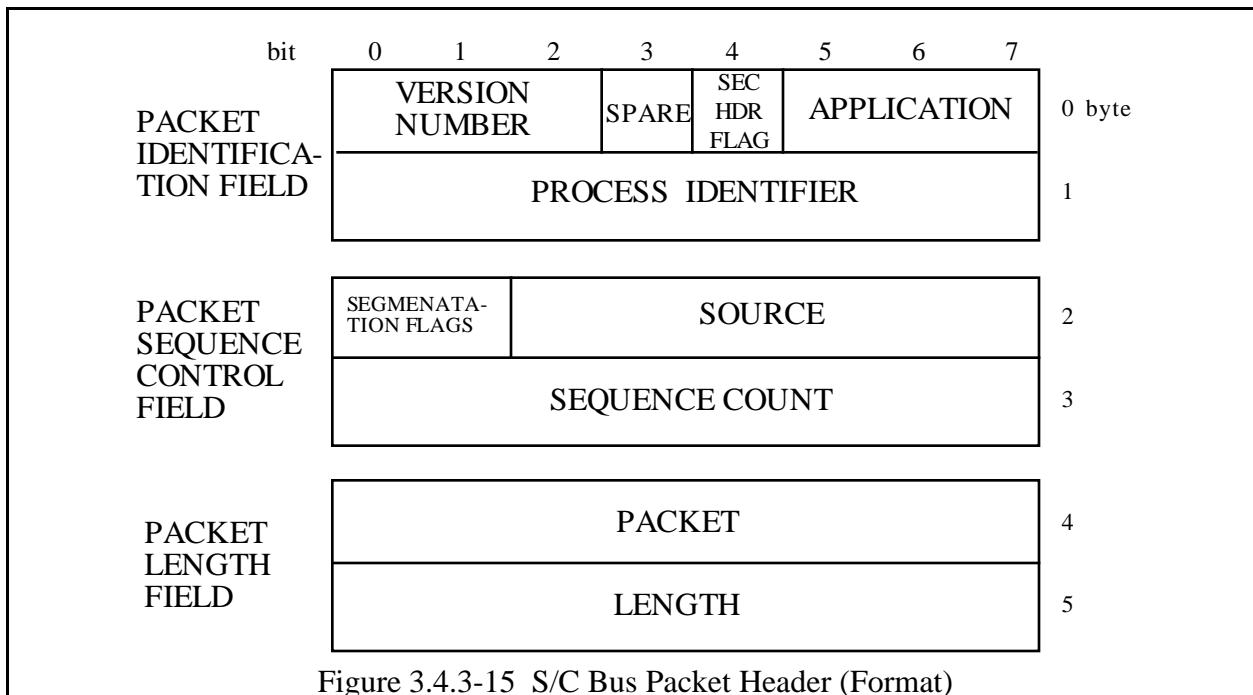
1. Version number - These three bits are set to "000" to identify version 1 as the source packet structure.
2. Spare - Bit three is a spare and is set to "0".
3. Secondary Header Flag - Indicates Secondary Header data structure and is set to "0" for MGS.
4. Application Process Identifier - Uniquely identifies the individual application process that created the source packet.

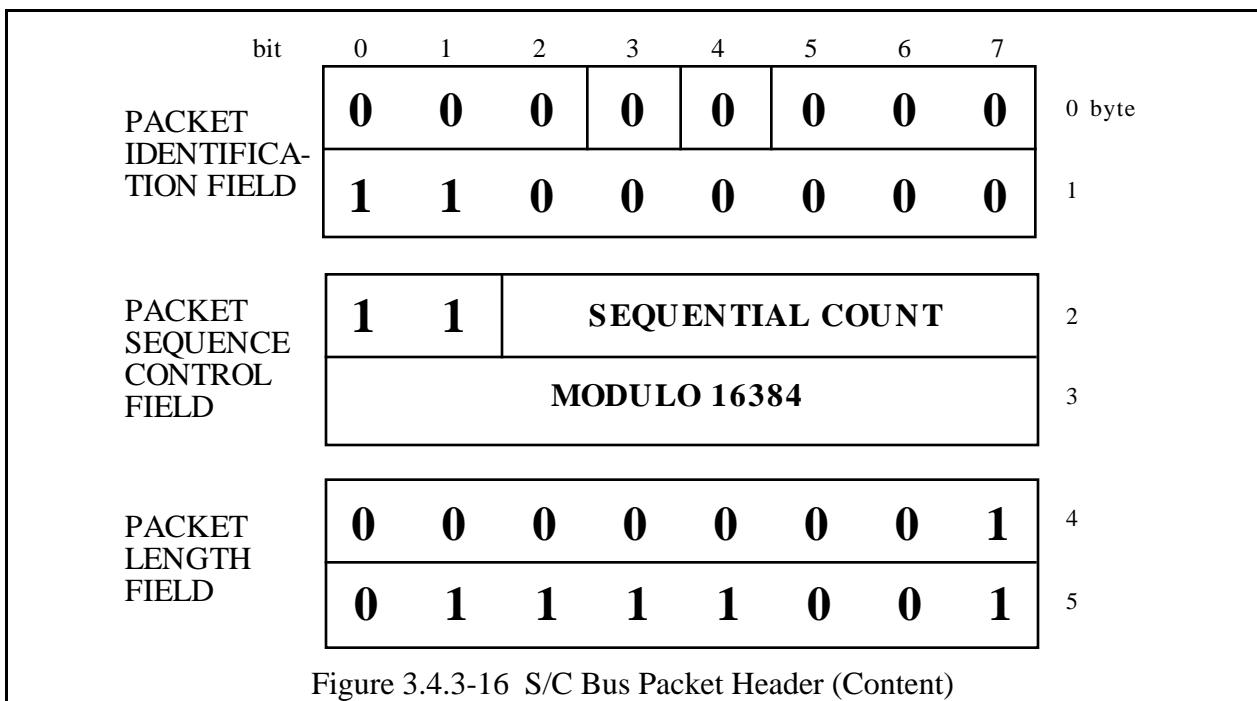
Packet Sequence Control; (bytes 2 & 3)

1. Segmentation Flags - For MGS segmentation will not be performed; these bits are set to "11".
2. Source Sequence Count - (bits 2-15) This field contains a sequential count (modulo 16384) of each packet generated by each unique source application process.

Packet Length Field ; (bytes 4 & 5)

1. Packet Length - This field contains a sequential 16-bit binary count "C" of the length (in octets) of the data area structure. Total Dwell Packet length is 127 bytes. (121/Segment + 6/Pri-Header).





3.4.3.6.2 S/C Bus Packet Timecode

The S/C Bus Packet Timecode is identical to that in the ETF segment. Once the PDS Timecode Enable signal achieves its active state (0 volts), the EDF will present each subsequent Timecode Data value onto the Timecode Data signal line on the rising edges of the PDS-supplied 16 kHz clock. The Timecode will be transferred MSB first. If, after 0.5 seconds following the activation of the S/C Bus Packet Timecode Sync signal, the active level of the S/C Bus Packet Timecode Enable has not been detected, the EDF will terminate the transfer by deactivating the Timecode Sync signal. In this case, the EDF will again request a transfer at the next occurrence of the 1-Second clock by reactivating the S/C Bus Packet Timecode Sync signal.

3.4.3.6.3 Frame ID

The format of the Frame ID field of the S/C Bus Packet is identical to that of the ETF Segment except that Code "0000 0000" will be reserved for idle packets.

3.4.3.6.4 Segment Status

The Segment Status Field of the S/C Bus Packet is identical to the Telemetry Segment Status field which was shown in Figure 3.4.3-11.

3.4.3.6.5 S/C Bus Digital & Analog Subcoms

The subcom definitions for the Analog and Digital telemetry fields of the S/C Bus packet are identical to that for one ETF segment

3.4.3.6.7 SCP Telemetry or Memory Dump

SCP telemetry, Audit Queue Dump, or memory dump data contained in each PDS packet (in Mission Mode) is identical in format to that contained in one ETF segment (in Engineering Mode).

3.4.3.7 SCP & EDF DATA Packets

3.4.3.7.1 EDF to SCP Packets

An indication of the EDF operating mode will be transferred to the SCP's as part of the SCP Packet data. Additionally the EDF will set the Major Frame Flag and the Subcom Table Altered Flag in the appropriate Status and Frame-ID fields of the EDF to SCP Packets. The content of the data transferred from the SCP's to the EDF will be a function of these flags. The EDF to SCP Packet structure is shown in Figure 3.4.3-17.

0	STATUS	1
2	32 SECOND SUBCOM	3
4		5
6	8 SECOND SUBCOM	7
8		9
10	2 SECOND SUBCOM	11
12		13
14	CHECKSUM	15

STATUS WORD

BIT 0-1: EDF ERROR CONDITION 00 NO ERROR
 01 NON-OPERATIONAL ERROR
 10 OPERATIONAL ERROR
 11 CATASTROPHIC ERROR

BIT 2: MAJOR FRAME SYNC FLAG NEXT SYNCHRONOUS OCCURRANCE OF 2 HZ & 0.25 HZ

BITS 3-4: DUMP STATUS 00 NO ACTIVE DUMP
 01 NON-CONTROL SCP DUMP
 10 CONTROL SCP DUMP
 11 EDF DUMP

BITS 5-8: EDF OPERATION MODE 0000 EMERGENCY
 0001 MISSION
 0010 ENGINEERING
 0011 DWELL
 0100 SCP TEST DUMP
 0101 EDF TEST DUMP
 0110 spare
 0111 spare
 1xxx spare

BIT 9: SUBCOM TABLE ALTERED FLAG (0 = TABLE IS DEFAULT, 1 = TABLE ALTERED)

BIT 10: EMERGENCY MODE SYNC (0 = NONE, 1 = SYNC AND NEXT 4-SECOND INTERRUPT)

BITS 11-15 FRAME ID - SEQUENTIAL MODULO 32 BINARY COUNT OF MINOR FRAME

Figure 3.4.3-17 EDF to SCP Packet Structure

3.4.3.7.2 SCP to EDF Subcom Telemetry

The SCP's always send 40-word-blocks per each segment of an ETF Segment, to the EDF. No more than 38 of these words are downlinked. The first word of the 40 is a status word, whose

purpose is to provide information to the EDF and to the ground about the contents of the SCP telemetry block. The listing of the SCP Telemetry data is included in Appendices.

3.5 TELEMETRY MEASUREMENTS

The following sections give a description of the channel nomenclature and the parameters which are used on the EDF telemetry data sheets to describe each telemetry measurement (or measurand) which may be down-linked in the telemetry stream.

3.5.1 Channel Naming Convention

Certain changes were made to the traditional channel-ID naming convention to enhance the utility of handling MGS telemetry data during the life of the operational mission.

In order to minimize the impact to MOSO software, the following assumptions and restrictions were applied :

1. Measurements for all subsystems are categorized into no more than ten distinct categories or *types*.
2. Assigned channel-ID (X-nnnn) numbers are no larger than 4095 decimal.
3. Each channel-ID is unique, however not all consecutive numbers are used (i.e. small blocks of numbers may be skipped).

3.5.1.1 Channel ID

The Channel-ID for each measurement is comprised of two parts; an alphabetic character depicting the Subsystem to which the measurement belongs, and a four digit number ranging from 0000 to 4095.

Each Channel IDentifier has the form X-nnnn, where X is defined as follows:

X = Subsystem ID	Alphabetic character which identifies the primary subsystem to which the measurand belongs; as follows:
-------------------------	---

Subsys. ID	Mnemonic	Subsystem Name
A	AACS	Attitude & Articulation Control
C	CDH	Command & Data Handling
E	PWR	Electrical Power
F (N)	FSW	Flight/Software (SCP's) *
I	PYLD	Payload(Instrument. Interface)
L	TLCM	Telecommunications
P	PROP	Propulsion
S	STR	Structure/Mechanisms.
T	THR	Thermal

(* N channel ID designations are Flight Software Telemetry points identical in interpretation to F channel IDs, but originating from the Non-Control SCP.)

3.5.2 Measurement Descriptions

The measurement (or measurand) description is a brief word description which plainly and unambiguously defines specifically what is being measured.

3.5.3 Analog/Digital Measurements

The Measurement Data Sheets are formatted for either Analog telemetry or Digital telemetry. The primary differences are in the sections dealing with range, accuracy, and high and low limits.

Each 8-bit telemetry word represents an EDF mux address from which the data is sent. Within each word may be a bit which is assigned its own channel ID. This is represented by XXXX-Y where XXXX is the EDF mux address and Y is the bit of interest.

3.5.3.1 Location in Telemetry Format

The location of the measurement in the Engineering Transfer Frame and the location of the ETF in a major frame is what this parameter is trying to convey. This data can be further understood by reviewing Section 2.4.

3.5.3.2 Telemetry Mode Sample Rates

The Telemetry mode sample rate is determined by the Commanded (or Fault driven) spacecraft telemetry mode and by the uplinked telemetry tables. The values are listed in the Rate tables are the rates prescribed in the default telemetry tables for each mode.

3.5.4 Measurement Anomalies

Anomalies are defined as telemetry indications which are out of "expected" tolerance due to processing errors, link perturbations, or actual unit or subsystem failures. This section of the measurement data sheet provides some data to help in isolating a possible anomaly and provides a cursory recommendation toward a resolution.

3.5.4.1 Loss of Measurement

This section of the measurement data sheet provides recommendations as to what alternate telemetry measurements may be used to derive a reasonable value for the measurement which was lost, and also states what operational impact a Loss of this measurement may cause.

3.5.4.2 Loss of Function

This section of the measurement data sheet states what operational impact a loss of this function (reported via telemetry) may have on a subsystem or on the mission.

3.5.4.3 Recommended Resolution

This section of the measurement data sheet provides recommendations as to what alternate telemetry functions, or procedures may be used to resolve or work around the loss of function anomaly.

APPENDICES

The following appendices contain the Telemetry Data Indices, TLM Measurement Data-Sheets, Decommutation Maps, and SCP Telemetry List.

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Appendix A

EDF Telemetry Indices

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Appendix A1

EDF Telemetry Index (By Channel-ID)

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Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
A-0001	CS_TRI_A_PWR	CS_TRIAD_A_POWER	AACS	STATUS	1	8104-7	J12	68
A-0002	CS_TRI_B_PWR	CS_TRIAD_B_POWER	AACS	STATUS	1	8104-4	J7	100
A-0003	GYRO1_SP_MTR	GYRO_1_SPIN_MOTOR	AACS	STATUS	1	8108-8	J12	104
A-0004	GYRO2_SP_MTR	GYRO_2_SPIN_MOTOR	AACS	STATUS	1	8104-2	J7	36
A-0005	GYRO3_SP_MTR	GYRO_3_SPIN_MOTOR	AACS	STATUS	1	8108-4	J7	104
A-0006	GYRO_OVTMP_A	GYRO_LOOP_OVER_TEMP_A	AACS	STATUS	1	8108-7	J12	72
A-0007	GYRO_OVTMP_B	GYRO_LOOP_OVER_TEMP_B	AACS	STATUS	1	8108-3	J7	72
A-0008	IMU_ACCEL_TST	IMU_ACCELL_TEST_STATUS	AACS	STATUS	1	8108-6	J12	40
A-0009	IMU_DATA_CHA	IMU_DATA_CHANNEL_A	AACS	STATUS	1	8104-5	J12	4
A-0010	IMU_DATA_CHB	IMU_DATA_CHANNEL_B	AACS	STATUS	1	8104-1	J7	4
A-0011	IMU_HI_LO_ST	IMU_GYRO_RATE_MODE_STATUS	AACS	STATUS	1	8104-6	J12	36
A-0012	IMU_TCA_STAT	IMU_TCA_STATUS	AACS	STATUS	1	8108-2	J7	40
A-0013	MHSA1_PWR	MHSA_1_POWER_STATUS	AACS	STATUS	1	8108-5	J12	8
A-0014	MHSA2_PWR	MHSA_1_POWER_STATUS	AACS	STATUS	1	8108-1	J7	8
A-0020	IMU_HI_CMDP1	IMU_HI_CMD_PATH_1_TLM	AACS	STATUS	1	8116-8	J12	118
A-0021	IMU_LO_CMDP1	IMU_LO_CMD_PATH_1_TLM	AACS	STATUS	1	8116-7	J12	86
A-0022	IMU_HI_CMDP2	IMU_HI_CMD_PATH_2_TLM	AACS	STATUS	1	8116-4	J7	118
A-0023	IMU_LO_CMDP2	IMU_LO_CMD_PATH_2_TLM	AACS	STATUS	1	8116-3	J7	86
A-0100	CSA_TRA+14_V	CSA_TRIAD_A_+14V	AACS	UNSIGNED	8	824B	J8	44
A-0101	CSA_TRA-14_V	CSA_TRIAD_A_-14V	AACS	UNSIGNED	8	83C0	J11	48
A-0102	CSA_TRB+14_V	CSA_TRIAD_B_+14V	AACS	UNSIGNED	8	8342	J10	50
A-0103	CSA_TRB-14_V	CSA_TRIAD_B_-14V	AACS	UNSIGNED	8	8249	J8	42
A-0110	MHSA_DET1_V	MHSA_SIDE_1_DETECT	AACS	UNSIGNED	8	824F	J8	48
A-0111	MHSA_DET2_V	MHSA_SIDE_2_DETECT	AACS	UNSIGNED	8	83A8	J11	40
A-0112	MHSA_VOI1_V	MHSA_VORS_INT_I-1	AACS	UNSIGNED	8	82AD	J9	45
A-0113	MHSA_VOI2_V	MHSA_VORS_INT_I-2	AACS	UNSIGNED	8	834A	J10	58
A-0114	MHSA_VOII1_V	MHSA_VORS_INT_II-1	AACS	UNSIGNED	8	82C8	J9	56
A-0115	MHSA_VOII2_V	MHSA_VORS_INT_II-2	AACS	UNSIGNED	8	83CB	J11	59
A-0120	SS1_DC_CNV_V	SS1_ATA_DC-DC_CONV	AACS	UNSIGNED	8	83CF	J11	63
A-0121	SS2_DC_CNV_V	SS2_ATA_DC-DC_CONV	AACS	UNSIGNED	8	8343	J10	51
A-0122	SS1_ATA_I	SS1_ATA_CURRENT	AACS	UNSIGNED	8	82C3	J9	51
A-0123	SS2_ATA_I	SS2_ATA_CURRENT	AACS	UNSIGNED	8	8398	J11	24
A-0130	IMU_XA-Z2_TQ	IMU_XA-Z2_TORQUER_I	AACS	UNSIGNED	8	82CC	J9	60
A-0131	IMU_XB-Z3_TQ	IMU_XB-Z3_TORQUER_I	AACS	UNSIGNED	8	83C2	J11	50
A-0132	IMU_YA-X1_TQ	IMU_YA-X1_TORQUER_I	AACS	UNSIGNED	8	83C4	J11	52
A-0133	IMU_YB-X3_TQ	IMU_YB-X3_TORQUER_I	AACS	UNSIGNED	8	8297	J9	23
A-0134	IMU_ZA+Y1_TQ	IMU_ZA+Y1_TORQUER_I	AACS	UNSIGNED	8	8348	J10	56
A-0135	IMU_ZB+Y2_TQ	IMU_ZB+Y2_TORQUER_I	AACS	UNSIGNED	8	83CA	J11	58
A-0136	IMU_+10_DC_V	IMU_+10_VOLTS_DC	AACS	UNSIGNED	8	8241	J8	34
A-0137	IMU_+15_DC_V	IMU_+15_VOLTS_DC	AACS	UNSIGNED	8	8290	J9	16
A-0138	IMU_-15_DC_V	IMU_-15_VOLTS_DC	AACS	UNSIGNED	8	8310	J10	16
A-0139	IMU_TCA_PR_V	IMU_TCA_PRI_VOLTGE	AACS	UNSIGNED	8	8390	J11	16

EDF TELEMETRY INDEX
 (By Channel ID)

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
A-0140	IMU_TCA_BU_V	IMU_TCA_BU_VOLTGE	AACS	UNSIGNED	8	8341	J10	49
A-0141	IMU_PR_AC_V	IMU_PRI_AC_PWR_SUP_MON	AACS	UNSIGNED	8	8245	J8	38
A-0142	IMU_BU_AC_V	IMU_BU_AC_PWR_SUP_MON	AACS	UNSIGNED	8	83CE	J11	62
A-0143	IMU_PR_DC_V	IMU_PRI_DC_PWR_SUP_MON	AACS	UNSIGNED	8	8345	J10	53
A-0144	IMU_BU_DC_V	IMU_BU_DC_PWR_SUP_MON	AACS	UNSIGNED	8	83CC	J11	60
A-0150	SPMTR_PH_A_V	SPIN_MTR_A_PHS_TLM	AACS	UNSIGNED	8	8308	J10	8
A-0151	SPMTR_PH_B_V	SPIN_MTR_B_PHS_TLM	AACS	UNSIGNED	8	8388	J11	8
A-0152	SPMTR_PH_C_V	SPIN_MTR_C_PHS_TLM	AACS	UNSIGNED	8	82C0	J9	48
A-0160	GYRO1_MTR_I	GYRO_1_MOTOR_CURRENT	AACS	UNSIGNED	8	8344	J10	52
A-0161	GYRO2_MTR_I	GYRO_2_MOTOR_CURRENT	AACS	UNSIGNED	8	82CB	J9	59
A-0162	GYRO3_MTR_I	GYRO_3_MOTOR_CURRENT	AACS	UNSIGNED	8	83C5	J11	53
A-0170	RWA_X_MTR_I	RWA_X_MOTOR_CURRENT	AACS	UNSIGNED	8	8240	J8	33
A-0171	RWA_Y_MTR_I	RWA_Y_MOTOR_CURRENT	AACS	UNSIGNED	8	8280	J9	128
A-0172	RWA_Z_MTR_I	RWA_Z_MOTOR_CURRENT	AACS	UNSIGNED	8	8300	J10	128
A-0173	RWA_S_MTR_I	RWA_S_MOTOR_CURRENT	AACS	UNSIGNED	8	8380	J11	128
A-0180	ACCEL_-X	ACCELERATION_-X	AACS	UNSIGNED	8	83C1	J11	49
A-0181	ACCEL_-Y	ACCELERATION_-Y	AACS	UNSIGNED	8	8248	J8	41
A-0182	ACCEL_+Z	ACCELERATION_+Z	AACS	UNSIGNED	8	82CF	J9	63
A-0183	ACCEL_+S	ACCELERATION_+S	AACS	UNSIGNED	8	8327	J10	39
C-0001	CIU_BUS_SLCT	CIU_BUS_SELECTED	CDH	STATUS	1	8119-5	J12	25
C-0002	CIU_CNTR_SCP	CIU_SCP_IN_CONTROL	CDH	STATUS	1	811B-7	J12	91
C-0003	CIU_DESR_BUS	CIU_DESIRED_BUS:	CDH	STATUS	1	8103-8	J12	99
C-0004	CIU_IO_X_ST	CIU_IO_CROSSTATE	CDH	STATUS	1	811B-3	J7	91
C-0005	CIU_RXO_SLCT	CIU_RXO_SELECTED	CDH	STATUS	1	8119-8	J12	121
C-0006	CIU_SCP1_NOK	CIU_SCP1_OK_STATUS	CDH	STATUS	1	811B-5	J12	27
C-0007	CIU_SCP2_NOK	CIU_SCP2_OK_STATUS	CDH	STATUS	1	811B-1	J7	27
C-0008	CIU_CLOCK_SL	CIU_CLOCK_SELECT	CDH	STATUS	1	8102-8	J12	98
C-0009	CIX_BUS_SLCT	CIX_BUS_SELECT	CDH	STATUS	1	811A-6	J12	58
C-0010	CIX_IO_X_ST	CIX_IO_CROSSTATE	CDH	STATUS	1	8119-2	J7	57
C-0011	EDF_SIDE1_ST	EDF_SIDE_1_POWER	CDH	STATUS	1	8119-3	J7	89
C-0012	EDF_SIDE2_ST	EDF_SIDE_2_POWER	CDH	STATUS	1	811A-8	J12	122
C-0013	M_PHASE_R1S1	MISSION_PH_REL_1_SCP1	CDH	STATUS	1	8100-6	J12	32
C-0014	M_PHASE_R1S2	MISSION_PH_REL_1_SCP2	CDH	STATUS	1	8100-2	J7	32
C-0015	M_PHASE_R2S1	MISSION_PH_REL_2_SCP1	CDH	STATUS	1	8100-8	J12	96
C-0016	M_PHASE_R2S2	MISSION_PH_REL_2_SCP2	CDH	STATUS	1	8100-3	J7	64
C-0017	M_PHASE_R3S1	MISSION_PH_REL_3_SCP1	CDH	STATUS	1	8100-7	J12	64
C-0018	M_PHASE_R3S2	MISSION_PH_REL_3_SCP2	CDH	STATUS	1	8100-4	J7	96
C-0020	MOTCROSS	XSU_SERL_MOT_STATE	CDH	STATUS	1	8060-1	J5	5
C-0022	PDS_A_OK	PDS_SUBSYSTEM_A_OK	CDH	STATUS	1	8103-1	J7	3
C-0023	PDS_B_OK	PDS_SUBSYSTEM_B_OK	CDH	STATUS	1	8103-5	J12	3
C-0024	PDS_A_PWR	PDS_POWER_A_STATUS	CDH	STATUS	1	810C-8	J12	108
C-0025	PDS_B_PWR	PDS_POWER_B_STATUS	CDH	STATUS	1	810C-1	J7	12

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
C-0029	RXO_MODE_STA	RXO_OSC_MODE_STATS	CDH	STATUS	1	811A-5	J12	26
C-0030	SCP1_ALO_ERR	SCP1_AT_LEAST_1_ERROR	CDH	STATUS	1	811A-7	J12	90
C-0031	SCP2_ALO_ERR	SCP2_AT_LEAST_1_ERROR	CDH	STATUS	1	811A-4	J7	122
C-0032	SCP1_NRM_SWP	SCP1_NORMAL_OR_SWAP	CDH	STATUS	1	811A-1	J7	26
C-0033	SCP2_NRM_SWP	SCP2_NORMAL_OR_SWAP	CDH	STATUS	1	811A-2	J7	58
C-0034	SCU1SCP1_ST	SCU1_SELECTED SCP1	CDH	STATUS	1	810A-8	J12	106
C-0035	SCU1SCP2_ST	SCU1_SELECTED SCP2	CDH	STATUS	1	810A-4	J7	106
C-0036	SCU2SCP1_ST	SCU2_SELECTED SCP1	CDH	STATUS	1	810A-5	J12	10
C-0037	SCU2SCP2_ST	SCU2_SELECTED SCP2	CDH	STATUS	1	810A-1	J7	10
C-0040	SSR_1A_CLOCK	SSR_1A_CLOCK	CDH	STATUS	4	8060-5	J5	5
C-0041	SSR_1A_MODE	SSR_1A_MODE	CDH	STATUS	4	8060-1	J5	5
C-0042	SSR_1A_PART	SSR_1A_PARTITION	CDH	STATUS	3	8060-6	J5	5
C-0043	SSR_1A_PWR	SSR_1A_POWER	CDH	STATUS	1	810A-7	J12	74
C-0044	SSR_1A_READY	SSR_1A_READY	CDH	STATUS	1	8112-8	J12	114
C-0045	SSR_1A_EOM	SSR_1A_END_OF_MEM	CDH	STATUS	1	8112-7	J12	82
C-0046	SSR_1A_EOP	SSR_1A_END_OF_PART	CDH	STATUS	1	8112-6	J12	50
C-0047	SSR_1A_REOP	SSR_1A_RE_RECORD_EOP	CDH	STATUS	1	8112-5	J12	18
C-0048	SSR_1A_DENA	SSR_1A_DENA	CDH	STATUS	1	8106-8	J12	102
C-0050	SSR_1B_CLOCK	SSR_1B_CLOCK	CDH	STATUS	4	8060-5	J5	5
C-0051	SSR_1B_MODE	SSR_1B_MODE	CDH	STATUS	4	8060-1	J5	5
C-0052	SSR_1B_PART	SSR_1B_PARTITION	CDH	STATUS	3	8060-6	J5	5
C-0053	SSR_1B_PWR	SSR_1B_POWER	CDH	STATUS	1	810A-3	J7	74
C-0054	SSR_1B_READY	SSR_1B_READY	CDH	STATUS	1	8113-8	J12	115
C-0055	SSR_1B_EOM	SSR_1B_END_OF_MEM	CDH	STATUS	1	8113-7	J12	83
C-0056	SSR_1B_EOP	SSR_1B_END_OF_PART	CDH	STATUS	1	8113-6	J12	51
C-0057	SSR_1B_REOP	SSR_1B_RE_RECORD_EOP	CDH	STATUS	1	8113-5	J12	19
C-0058	SSR_1B_DENA	SSR_1B_DENA	CDH	STATUS	1	811A-3	J7	90
C-0060	SSR_2A_CLOCK	SSR_2A_CLOCK	CDH	STATUS	4	8060-5	J5	5
C-0061	SSR_2A_MODE	SSR_2A_MODE	CDH	STATUS	4	8060-1	J5	5
C-0062	SSR_2A_PART	SSR_2A_PARTITION	CDH	STATUS	3	8060-6	J5	5
C-0063	SSR_2A_PWR	SSR_2A_POWER	CDH	STATUS	1	810A-6	J12	42
C-0064	SSR_2A_READY	SSR_2A_READY	CDH	STATUS	1	8112-4	J7	114
C-0065	SSR_2A_EOM	SSR_2A_END_OF_MEM	CDH	STATUS	1	8112-3	J7	82
C-0066	SSR_2A_EOP	SSR_2A_END_OF_PART	CDH	STATUS	1	8112-2	J7	50
C-0067	SSR_2A_REOP	SSR_2A_RE_RECORD_EOP	CDH	STATUS	1	8112-1	J7	18
C-0068	SSR_2A_DENA	SSR_2A_DENA	CDH	STATUS	1	8102-5	J12	2
C-0069	SSR2BmodeC	SSR_2B_MODE_BIT_C	CDH	UNSIGNED	1	810F-6	J12	47
C-0070	SSR2BmodeABD	SSR_2B_MODE_BITS_A_B_D	CDH	UNSIGNED	4	8111-8	J7	17
C-0072	SSR_2B_PART	SSR_2B_PARTITION	CDH	STATUS	3	8111-4	J7	49
C-0073	SSR_2B_PWR	SSR_2B_POWER	CDH	STATUS	1	810A-2	J7	42
C-0074	SSR_2B_READY	SSR_2B_READY	CDH	STATUS	1	8113-4	J7	115
C-0075	SSR_2B_EOM	SSR_2B_END_OF_MEM	CDH	STATUS	1	8113-3	J7	83

Chan ID	MOS Mnemonic	Name	EDF TELEMETRY INDEX (By Channel ID)					Conn	Pin
			Sub	Data Type	Bits	MUX			
C-0076	SSR_2B_EOP	SSR_2B_END_OF_PART	CDH	STATUS	1	8113-2	J7	5	1
C-0077	SSR_2B_REOP	SSR_2B_RE_RECORD_EOP	CDH	STATUS	1	8113-1	J7	1	9
C-0078	SSR_2B_DENA	SSR_2B_DENA	CDH	STATUS	1	8117-5	J12	2	3
C-0080	XSU SIDE1	XSU_SERL_TLM_SIDE1	CDH	STATUS	1	8060-1	J5	5	
C-0081	XSU SIDE2	XSU_SERL_TLM_SIDE2	CDH	STATUS	1	8060-1	J5	5	
C-0082	XSU_W2_SPARE	XSU_WRD2_SPARES	CDH	STATUS	4	8060-2	J5	5	
C-0083	XSU_W4_SPARE	XSU_WRD4_SPARES	CDH	STATUS	4	8060-2	J5	5	
C-0084	XSU_W6_SPARE	XSU_WRD6_SPARES	CDH	STATUS	4	8060-2	J5	5	
C-0085	XSU1_PGC	XSU_SERL_AMPL_MOT1	CDH	STATUS	4	8060-1	J5	5	
C-0086	XSU2_PGC	XSU_SERL_AMPL_MOT2	CDH	STATUS	4	8060-1	J5	5	
C-0087	XSU1_SRC	XSU_STREAM_SELCT_1	CDH	STATUS	4	8060-5	J5	5	
C-0088	XSU2_SRC	XSU_STREAM_SELCT_2	CDH	STATUS	4	8060-5	J5	5	
C-0101	A_CAL1_1.28V	EDF1_AN_CAL_V_1.28	CDH	UNSIGNED	8	8329	J10	4	1
C-0102	A_CAL2_1.28V	EDF2_AN_CAL_V_1.28	CDH	UNSIGNED	8	82A6	J9	3	8
C-0103	A_CAL1_2.56V	EDF1_AN_CAL_V_2.56	CDH	UNSIGNED	8	834C	J10	6	0
C-0104	A_CAL2_2.56V	EDF2_AN_CAL_V_2.56	CDH	UNSIGNED	8	82AF	J9	4	7
C-0105	A_CAL1_3.84V	EDF1_AN_CAL_V_3.84	CDH	UNSIGNED	8	83A9	J11	4	1
C-0106	A_CAL2_3.84V	EDF2_AN_CAL_V_3.84	CDH	UNSIGNED	8	832F	J10	4	7
C-0107	A_CAL1_5.12V	EDF1_AN_CAL_V_5.12	CDH	UNSIGNED	8	824D	J8	4	6
C-0108	A_CAL2_5.12V	EDF2_AN_CAL_V_5.12	CDH	UNSIGNED	8	82C4	J9	5	2
C-0109	CIU_ACEdA_V	CIU_ACE_ABUS_OUPUT	CDH	UNSIGNED	8	8321	J10	3	3
C-0110	CIU_ACEdB_V	CIU_ACE_BBUS_OUPUT	CDH	UNSIGNED	8	82A1	J9	3	3
C-0111	CIU_ACE_A_RV	CIU_ACE_A_REF_VOLT	CDH	UNSIGNED	8	8399	J11	2	5
C-0112	CIU_ACE_B_RV	CIU_ACE_B_REF_VOLT	CDH	UNSIGNED	8	824C	J8	4	5
C-0113	CIU_EPC+10AV	CIU_EPC_+10V_A	CDH	UNSIGNED	8	8291	J9	1	7
C-0114	CIU_EPC+10BV	CIU_EPC_+10V_B	CDH	UNSIGNED	8	8311	J10	1	7
C-0115	CIU_EPC-10AV	CIU_EPC_-10V_A	CDH	UNSIGNED	8	8391	J11	1	7
C-0116	CIU_EPC-10BV	CIU_EPC_-10V_B	CDH	UNSIGNED	8	8243	J8	3	6
C-0117	EDF1_CNV_V	EDF_CONVSTAT_SIDE1	CDH	UNSIGNED	8	8309	J10	9	
C-0118	EDF1_CAL_I	EDF1_CALIBR_CURRNT	CDH	UNSIGNED	8	83D7	J11	7	1
C-0119	EDF2_CNV_V	EDF_CONVSTAT_SIDE2	CDH	UNSIGNED	8	8389	J11	9	
C-0120	EDF2_CAL_I	EDF2_CALIBR_CURRNT	CDH	UNSIGNED	8	8258	J8	5	7
C-0125	PDS_A_+5_V	PDS_SIDE_A_+5V_OUT	CDH	UNSIGNED	8	824E	J8	4	7
C-0126	PDS_B_+5_V	PDS_SIDE_B_+5V_OUT	CDH	UNSIGNED	8	828A	J9	1	0
C-0131	SCP1_+5_V	SCP1_+5V_PWR_SUPPL	CDH	UNSIGNED	8	8319	J10	2	5
C-0132	SCP2_+5_V	SCP2_+5V_PWR_SUPPL	CDH	UNSIGNED	8	83AE	J11	4	6
C-0141	SSR_1A_-5V	SSR_1A_-5_VOLT_PS	CDH	UNSIGNED	8	8320	J10	3	2
C-0142	SSR_1A_I	SSR_1A_CURRENT	CDH	UNSIGNED	8	8246	J8	3	9
C-0143	SSR_1B_-5V	SSR_1B_-5_VOLT_PS	CDH	UNSIGNED	8	82A8	J9	4	0
C-0144	SSR_1B_I	SSR_1B_CURRENT	CDH	UNSIGNED	8	83A0	J11	3	2
C-0145	SSR_2A_-5V	SSR_2A_-5_VOLT_PS	CDH	UNSIGNED	8	8299	J9	2	5
C-0146	SSR_2A_I	SSR_2A_CURRENT	CDH	UNSIGNED	8	82C2	J9	5	0

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
C-0147	SSR_2B_-5V	SSR_2B_-5_VOLT_PS	CDH	UNSIGNED	8	834B	J10	59
C-0148	SSR_2B_I	SSR_2B_CURRENT	CDH	UNSIGNED	8	8340	J10	48
C-0151	XSU1_CNV_V	XSU_CONVSTAT_SIDE1	CDH	UNSIGNED	8	83A1	J11	33
C-0152	XSU2_CNV_V	XSU_CONVSTAT_SIDE2	CDH	UNSIGNED	8	834E	J10	62
E-0001	BAT1_PR_CHG	BAT1_PRI_CHARGE_PATH	PWR	STATUS	1	810C-4	J7	108
E-0002	BAT1_BU_CHG	BAT1_BU_CHARGE_PATH	PWR	STATUS	1	810B-6	J12	43
E-0003	BAT1_CHG_CFG	BAT1_CHARGE_CONFIG	PWR	STATUS	1	8117-1	J7	23
E-0004	BAT1_TRK_ENA	BAT1_TRICKLE_ENABLE	PWR	STATUS	1	810B-4	J7	107
E-0005	BAT1_TRK_ON	BAT1_TRICKLE_ON	PWR	STATUS	1	810B-2	J7	43
E-0006	BAT1_VT_SHFT	BAT1_VT_SHIFT_STATUS	PWR	STATUS	1	810B-8	J12	107
E-0011	BAT2_PR_CHG	BAT2_PRI_CHARGE_PATH	PWR	STATUS	1	810B-1	J7	11
E-0012	BAT2_BU_CHG	BAT2_BU_CHARGE_PATH	PWR	STATUS	1	810C-3	J7	76
E-0013	BAT2_CHG_CFG	BAT2_CHARGE_CONFIG	PWR	STATUS	1	810B-5	J12	11
E-0014	BAT2_TRK_ENA	BAT2_TRICKLE_ENABLE	PWR	STATUS	1	810B-7	J12	75
E-0015	BAT2_TRK_ON	BAT2_TRICKLE_ON	PWR	STATUS	1	810B-3	J7	75
E-0016	BAT2_VT_SHFT	BAT2_VT_SHIFT_STATUS	PWR	STATUS	1	810C-5	J12	12
E-0020	PSE_BOST_REG	PSE_BOOST_V_REG_STATUS	PWR	STATUS	1	8117-6	J12	55
E-0021	PSE_CMD_SIDE	PSE_INTERFACE_SELECT	PWR	STATUS	1	811B-4	J7	123
E-0022	PSE_MODE_CRL	PSE_MODE_CNTL_STATUS	PWR	STATUS	1	8117-3	J7	87
E-0101	BAT1_HI_V	BAT1_VOLTAGE_HIGH_RANGE	PWR	UNSIGNED	8	8247	J8	40
E-0102	BAT1_LO_V	BAT1_VOLTAGE_LOW_RANGE	PWR	UNSIGNED	8	8292	J9	18
E-0103	BAT1_HALF_V	BAT1_HALF_VOLTAGE	PWR	UNSIGNED	8	832A	J10	42
E-0104	BAT1_CHRG_RT	BAT1_CHARGE_RATE_STATUS	PWR	UNSIGNED	8	8395	J11	21
E-0105	BAT1_CHRG_I	BAT1_CHARGE_CURRENT	PWR	UNSIGNED	8	830A	J10	10
E-0106	BAT1_DCHG_I	BAT1_DISCHG_CURRENT	PWR	UNSIGNED	8	838A	J11	10
E-0107	BAT1_VT_LMIT	BAT1_VT_LIMIT_STATE	PWR	UNSIGNED	8	8392	J11	18
E-0108	BAT1_PRESS_1	BAT1_PRESSURE_SENSOR_1	PWR	UNSIGNED	8	8314	J10	20
E-0109	BAT1_PRESS_2	BAT1_PRESSURE_SENSOR_2	PWR	UNSIGNED	8	82AB	J9	43
E-0111	BAT2_HI_V	BAT2_VOLTAGE_HIGH_RANGE	PWR	UNSIGNED	8	8282	J9	2
E-0112	BAT2_LO_V	BAT2_VOLTAGE_LOW_RANGE	PWR	UNSIGNED	8	829A	J9	26
E-0113	BAT2_HALF_V	BAT2_HALF_VOLTAGE	PWR	UNSIGNED	8	83AA	J11	42
E-0114	BAT2_CHRG_RT	BAT2_CHARGE_RATE_STATUS	PWR	UNSIGNED	8	831A	J10	26
E-0115	BAT2_CHRG_I	BAT2_CHARGE_CURRENT	PWR	UNSIGNED	8	82C7	J9	55
E-0116	BAT2_DCHG_I	BAT2_DISCHG_CURRENT	PWR	UNSIGNED	8	83C8	J11	56
E-0117	BAT2_VT_LMIT	BAT2_VT_LIMIT_STATE	PWR	UNSIGNED	8	8298	J9	24
E-0118	BAT2_PRESS_1	BAT2_PRESSURE_SENSOR_1	PWR	UNSIGNED	8	83A3	J11	35
E-0119	BAT2_PRESS_2	BAT2_PRESSURE_SENSOR_2	PWR	UNSIGNED	8	8242	J8	35
E-0130	SA_OUTPUT_I	SOLAR_ARRAY_OUTPUT_I	PWR	UNSIGNED	8	82C9	J9	57
E-0131	SA+Y_I	SOLAR_ARRAY_+Y_CURRENT	PWR	UNSIGNED	8	8323	J10	35
E-0132	SA-Y_I	SOLAR_ARRAY_-Y_CURRENT	PWR	UNSIGNED	8	839B	J11	27
E-0133	SA+Y_Isc_I	SA_+Y_SHORT_CIRCUIT_CURRENT	PWR	UNSIGNED	8	82A3	J9	35
E-0134	SA-Y_Isc_I	SA_-Y_SHORT_CIRCUIT_CURRENT	PWR	UNSIGNED	8	831B	J10	27

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Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
E-0135	SA+Y_Voc_V	SA_+Y_OPEN_CIRCUIT_VOLTAGE	PWR	UNSIGNED	8	82C1	J9	4 9
E-0136	SA-Y_Voc_V	SA_-Y_OPEN_CIRCUIT_VOLTAGE	PWR	UNSIGNED	8	83CD	J11	6 1
E-0137	SA_PAR_SH_V	SA_PARTIAL_SHUNT_VOLTAGE	PWR	UNSIGNED	8	8393	J11	1 9
E-0140	PSE+28_BUS_V	PSE_+28V_REG_BUS_VOLTAGE	PWR	UNSIGNED	8	8383	J11	3
E-0141	PSE+28_BUS_I	PSE_+28V_REG_BUS_CURRENT	PWR	UNSIGNED	8	828B	J9	1 1
E-0142	PSE_PL_BUS_I	PSE_PA_BUS_CURRENT	PWR	UNSIGNED	8	830B	J10	1 1
E-0143	PSE_BVR_CHAN	PSE_BVR_STATUS	PWR	UNSIGNED	8	8346	J10	5 4
I-0001	ER_COVER_POS	ER_COVER_STATUS	PYLD	STATUS	1	810C-6	J12	4 4
I-0003	MAG_A_PWR	MAG_A_POWER_STATUS	PYLD	STATUS	1	8101-8	J12	9 7
I-0004	MAG_B_PWR	MAG_B_POWER_STATUS	PYLD	STATUS	1	8101-4	J7	9 7
I-0005	MR_TRANS_EN	MBR_XPONDER_ENABLE_STATUS	PYLD	STATUS	1	8101-7	J12	6 5
I-0006	MR_TRANS_ST	MBR_XPONDER_POWER_STATUS	PYLD	STATUS	1	8101-3	J7	6 5
I-0010	MOC_A_PWR	MOC_A_POWER	PYLD	STATUS	1	8101-6	J12	3 3
I-0011	MOC_B_PWR	MOC_B_POWER	PYLD	STATUS	1	8101-2	J7	3 3
I-0012	MOLA_ARM_ST	MOLA_INSTR_ARM_STATUS	PYLD	STATUS	1	810C-7	J12	7 6
I-0013	MOLA_ENA_ST	MOLA_INSTR_ENABLE_STATUS	PYLD	STATUS	1	810C-2	J7	4 4
I-0014	MOLA_PWR	MOLA_INSTR_PWR_STATUS	PYLD	STATUS	1	8101-5	J12	1
I-0015	TES_PWR	TES_INSTR_PWR_STATUS	PYLD	STATUS	1	8101-1	J7	1
L-0001	CDU1_OSC_MON	CDU1_OSC_MONITOR	TLCM	DIGITAL	8	8018	J6	9
L-0002	CDU1_STA_DAT	CDU1_SERIAL_DATA	TLCM	DIGITAL	8	8010	J6	2 9
L-0003	CDU2_OSC_MON	CDU2_OSC_MONITOR	TLCM	DIGITAL	8	8028	J13	9
L-0004	CDU2_STA_DAT	CDU2_SERIAL_DATA	TLCM	DIGITAL	8	8020	J13	2 9
L-0010	CDU1_SPARES	CDU1_DATA_SPARES	TLCM	STATUS	3	8010-1	J6	2 9
L-0011	CDU1_OSC_OFL	CDU1_OSC_MON_OVER_FLOW	TLCM	STATUS	1	8018-1	J6	9
L-0012	CDU1_BITRATE	CDU1_DATA_BIT_RATE	TLCM	STATUS	3	8010-6	J6	2 9
L-0013	CDU1_LOCK	CDU1_DATA_LOCK_STATUS	TLCM	STATUS	1	8010-5	J6	2 9
L-0014	CDU1_SEU	CDU1_SINGLE_EVENT_UPSET	TLCM	STATUS	1	8010-4	J6	2 9
L-0020	CDU2_SPARES	CDU2_DATA_SPARES	TLCM	STATUS	3	8020-1	J13	2 9
L-0021	CDU2_OSC_OFL	CDU2_OSC_MON_OVER_FLOW	TLCM	STATUS	1	8028-1	J13	9
L-0022	CDU2_BITRATE	CDU2_DATA_BIT_RATE	TLCM	STATUS	3	8020-6	J13	2 9
L-0023	CDU2_LOCK	CDU2_DATA_LOCK_STATUS	TLCM	STATUS	1	8020-5	J13	2 9
L-0024	CDU2_SEU	CDU2_SINGLE_EVENT_UPSET	TLCM	STATUS	1	8020-4	J13	2 9
L-0031	MOT1_DOR_ON	MOT1_DOR_STATUS	TLCM	STATUS	1	8104-8	J12	100
L-0032	MOT1_EXCITER	MOT1_EXCITER_STATUS	TLCM	STATUS	1	8103-2	J7	3 5
L-0033	MOT1_TWNC	MOT1_NOCOHERNT_ENA_STATUS	TLCM	STATUS	1	8106-3	J7	7 0
L-0034	MOT1_RANGING	MOT1_RANGING_STATUS	TLCM	STATUS	1	8106-6	J12	3 8
L-0035	MOT1_RCVRLCK	MOT1_RECEVER_LOCK_STATUS	TLCM	STATUS	1	8100-1	J7	128
L-0036	MOT1_TLM_MOD	MOT1_TLM_MODULATION	TLCM	STATUS	1	811F-1	J7	3 1
L-0037	MOT1_USO_ENA	MOT1_USO_ENABLE_STATUS	TLCM	STATUS	1	8106-1	J7	6
L-0041	MOT2_DOR_ON	MOT2_DOR_STATUS	TLCM	STATUS	1	8104-3	J7	6 8
L-0042	MOT2_EXCITER	MOT2_EXCITER_STATUS	TLCM	STATUS	1	8102-6	J12	3 4
L-0043	MOT2_TWNC	MOT2_NOCOHERNT_ENA_STATUS	TLCM	STATUS	1	8106-7	J12	7 0

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
L-0044	MOT2_RANGING	MOT2_RANGING_STATUS	TLCM	STATUS	1	8106-2	J7	38
L-0045	MOT2_RCVRLCK	MOT2_RECEIVER_LOCK_STATUS	TLCM	STATUS	1	8100-5	J12	128
L-0046	MOT2_TLM_MOD	MOT2_TLM_MODULATION	TLCM	STATUS	1	811F-2	J7	63
L-0047	MOT2_USO_ENA	MOT2_USO_ENABLE_STATUS	TLCM	STATUS	1	8106-5	J12	6
L-0050	RF_SW_INPUT	RF_SWITCH_INPUT_STATUS	TLCM	STATUS	1	811F-7	J12	95
L-0051	RF_SW_OUTPUT	RF_SWITCH_OUTPUT_STATUS	TLCM	STATUS	1	811F-8	J12	127
L-0052	RF_SW_LGT	RF_SWITCH_LGT_STATUS	TLCM	STATUS	1	811F-3	J7	95
L-0053	RF_SW_OSC	RF_SWITCH_OSC_STATUS	TLCM	STATUS	3	811F-6	J7	127
L-0058	RF_SW_23_INH	RF_SWITCH_2_3_INHIBIT_STATUS	TLCM	STATUS	1	811D-1	J7	29
L-0060	TWTA1_FILMNT	TWTA1_FILAMENT_STATUS	TLCM	STATUS	1	8102-4	J7	98
L-0061	TWTA1_HV	TWTA1_HIGH_VOLTAGE_STATUS	TLCM	STATUS	1	8103-7	J12	67
L-0070	TWTA2_FILMNT	TWTA2_FILAMENT_STATUS	TLCM	STATUS	1	8103-3	J7	67
L-0071	TWTA2_HV	TWTA2_HIGH_VOLTAGE_STATUS	TLCM	STATUS	1	8102-2	J7	34
L-0080	USO_PWR	USO_POWER_STATUS	TLCM	STATUS	1	8106-4	J7	102
L-0090	KaBLE_STAT	KaBLE_STATUS	TLCM	STATUS	1	8102-7	J12	66
L-0091	KaBLE_ENABLE	KABLE_ENABLE_TLM	TLCM	STATUS	1	8103-6	J12	35
L-0100	CDU1_OSC_DRF	CDU1_OSC_DRIFT	TLCM	UNSIGNED	7	8018-2	J6	9
L-0101	CDU1_SNR	CDU1_SIGNAL-NOISE_RATIO	TLCM	UNSIGNED	8	8014	J6	29
L-0102	CDU2_OSC_DRF	CDU2_OSC_DRIFT	TLCM	UNSIGNED	7	8028-2	J13	9
L-0103	CDU2_SNR	CDU2_SIGNAL-NOISE_RATIO	TLCM	UNSIGNED	8	8024	J13	29
L-0110	MOT1_EX_RF	MOT1_EXCITER_RF_OUTPUT	TLCM	UNSIGNED	8	8312	J10	18
L-0111	MOT1_RCV_AGC	MOT1_RECEIVER_AGC	TLCM	UNSIGNED	8	8285	J9	5
L-0112	MOT1_RCV_I	MOT1_RECEIVER_CURRENT	TLCM	UNSIGNED	8	83AC	J11	44
L-0113	MOT1_RCV_SPE	MOT1_RECEIVER_SPE	TLCM	UNSIGNED	8	834F	J10	63
L-0114	MOT1 RNG_AGC	MOT1 RANGE_AGC	TLCM	UNSIGNED	8	830D	J10	13
L-0120	MOT2_EX_RF	MOT2_EXCITER_RF_OUTPUT	TLCM	UNSIGNED	8	838D	J11	13
L-0121	MOT2_RCV_AGC	MOT2_RECEIVER_AGC	TLCM	UNSIGNED	8	8305	J10	5
L-0122	MOT2_RCV_I	MOT2_RECEIVER_CURRENT	TLCM	UNSIGNED	8	82CD	J9	61
L-0123	MOT2_RCV_SPE	MOT2_RECEIVER_SPE	TLCM	UNSIGNED	8	828D	J9	13
L-0124	MOT2 RNG_AGC	MOT2 RANGE_AGC	TLCM	UNSIGNED	8	83C9	J11	57
L-0131	TWTA1_HLX_I	TWTA1_HELIx_CURRENT	TLCM	UNSIGNED	8	83C3	J11	51
L-0132	TWTA1_ANOD_V	TWTA1_ANODE_VOLTAGE	TLCM	UNSIGNED	8	82CE	J9	62
L-0141	TWTA2_HLX_I	TWTA2_HELIx_CURRENT	TLCM	UNSIGNED	8	82A9	J9	41
L-0142	TWTA2_ANOD_V	TWTA2_ANODE_VOLTAGE	TLCM	UNSIGNED	8	839D	J11	29
L-0200	USO_REG_V	USO_REGULATOR_VOLTAGE	TLCM	UNSIGNED	8	82A5	J9	37
L-0201	USO_OVEN_V	USO_OVEN_HEATER_VOLTAGE	TLCM	UNSIGNED	8	8325	J10	37
P-0001	LT_V1_ENA	LATCH_VALVE1_ENAB_STATUS	PROP	STATUS	1	810F-2	J7	47
P-0002	LT_V1_P_POS	LATCH_VALVE1_PRI_POSITION	PROP	STATUS	1	811B-8	J12	123
P-0003	LT_V1_S_POS	LATCH_VALVE1_SEC_POSITION	PROP	STATUS	1	8110-1	J7	16
P-0004	LT_V2_ENA	LATCH_VALVE2_ENAB_STATUS	PROP	STATUS	1	810F-5	J12	15
P-0005	LT_V2_P_POS	LATCH_VALVE2_PRI_POSITION	PROP	STATUS	1	811B-6	J12	59
P-0006	LT_V2_S_POS	LATCH_VALVE2_SEC_POSITION	PROP	STATUS	1	8109-8	J12	105

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
P-0007	LT_V3_ENA	LATCH_VALVE3_ENAB_STATUS	PROP	STATUS	1	810F-1	J7	15
P-0008	LT_V3_P_POS	LATCH_VALVE3_PRI_POSITION	PROP	STATUS	1	811B-2	J7	59
P-0009	LT_V3_S_POS	LATCH_VALVE3_SEC_POSITION	PROP	STATUS	1	8110-5	J12	16
P-0010	LT_V4_ARM	LATCH_VALVE4_ARM_STATUS	PROP	STATUS	1	8109-3	J7	73
P-0011	LT_V4_ENA	LATCH_VALVE4_ENAB_STATUS	PROP	STATUS	1	8109-7	J12	73
P-0012	LT_V4_P_POS	LATCH_VALVE4_PRI_POSITION	PROP	STATUS	1	8103-4	J7	99
P-0013	LT_V4_S_POS	LATCH_VALVE4_SEC_POSITION	PROP	STATUS	1	8110-2	J7	48
P-0014	LT_V5_ARM	LATCH_VALVE5_ARM_STATUS	PROP	STATUS	1	8107-2	J7	39
P-0015	LT_V5_ENA	LATCH_VALVE5_ENAB_STATUS	PROP	STATUS	1	8107-6	J12	39
P-0016	LT_V5_P_POS	LATCH_VALVE5_PRI_POSITION	PROP	STATUS	1	8102-1	J7	2
P-0017	LT_V5_S_POS	LATCH_VALVE5_SEC_POSITION	PROP	STATUS	1	8110-6	J12	48
P-0020	ME_SD_A_ARM	MAIN_ENGINE_SIDE_A_ARM_STATUS	PROP	STATUS	1	811D-8	J12	125
P-0021	ME_SD_A_ENA	MAIN_ENGINE_SIDE_A_ENAB_STATUS	PROP	STATUS	1	811D-2	J7	61
P-0022	ME_SD_B_ARM	MAIN_ENGINE_SIDE_B_ARM_STATUS	PROP	STATUS	1	810F-4	J7	111
P-0023	ME_SD_B_ENA	MAIN_ENGINE_SIDE_B_ENAB_STATUS	PROP	STATUS	1	810F-8	J12	111
P-0024	ME_FLNG_A_EN	MAIN_ENGINE_FLANGE_HTR_A_ENAB	PROP	STATUS	1	8109-4	J7	105
P-0025	ME_FLNG_A_ON	MAIN_ENGINE_FLANGE_HTR_A_ON	PROP	STATUS	1	810E-3	J7	78
P-0026	ME_FLNG_B_EN	MAIN_ENGINE_FLANGE_HTR_B_ENAB	PROP	STATUS	1	8111-1	J7	17
P-0027	ME_FLNG_B_ON	MAIN_ENGINE_FLANGE_HTR_B_ON	PROP	STATUS	1	810E-7	J12	78
P-0031	THR_CB_01_EN	THRUSTER_01_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-8	J12	120
P-0032	THR_CB_02_EN	THRUSTER_02_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-7	J12	88
P-0033	THR_CB_03_EN	THRUSTER_03_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-6	J12	56
P-0034	THR_CB_04_EN	THRUSTER_04_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-5	J12	24
P-0035	THR_CB_05_EN	THRUSTER_05_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-4	J7	120
P-0036	THR_CB_06_EN	THRUSTER_06_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-3	J7	88
P-0037	THR_CB_07_EN	THRUSTER_07_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-2	J7	56
P-0038	THR_CB_08_EN	THRUSTER_08_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-1	J7	24
P-0039	THR_CB_09_EN	THRUSTER_09_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8114-6	J12	52
P-0040	THR_CB_10_EN	THRUSTER_10_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8114-5	J12	20
P-0041	THR_CB_11_EN	THRUSTER_11_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8114-2	J7	52
P-0042	THR_CB_12_EN	THRUSTER_12_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8114-1	J7	20
P-0043	THR_CBevenSE	EVEN_SEC_CB_HTR_TLM	PROP	STATUS	1	8110-8	J12	112
P-0044	THR_CBoddSE	ODD_SEC_CB_HTR_TLM	PROP	STATUS	1	8102-3	J7	66
P-0045	THRoddLO_ARM	THRUSTERS_1_3_5_ARM_STATUS	PROP	STATUS	1	811D-7	J12	93
P-0046	THRoddHI_ARM	THRUSTERS_7_9_12_ARM_STATUS	PROP	STATUS	1	810E-6	J12	46
P-0047	THRevnLO_ARM	THRUSTERS_2_4_6_ARM_STATUS	PROP	STATUS	1	810F-3	J7	79
P-0048	THRevnHI_ARM	THRUSTERS_8_10_11_ARM_STATUS	PROP	STATUS	1	810E-2	J7	46
P-0060	CNTpyroA_ENA	CONTINGENCY_PYRO_A_ENAB_STAT	PROP	UNSIGNED	8	8244	J8	37
P-0061	CNTpyroA_ARM	CONTINGENCY_PYRO_A_ARM_STAT	PROP	STATUS	1	8119-6	J12	57
P-0062	CNTpyroB_ENA	CONTINGENCY_PYRO_B_ENAB_STAT	PROP	UNSIGNED	8	83C7	J11	55
P-0063	CNTpyroB_ARM	CONTINGENCY_PYRO_B_ARM_STAT	PROP	STATUS	1	811D-3	J7	93
P-0064	MAPpyroA_ENA	MAPPING_PYRO_A_ENAB_STAT	PROP	UNSIGNED	8	82AA	J9	42

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
P-0065	MAPpyroA_ARM	MAPPING_PYRO_A_ARM_STAT	PROP	STATUS	1	8110-4	J7	112
P-0066	MAPpyroB_ENA	MAPPING_PYRO_B_ENAB_STAT	PROP	UNSIGNED	8	8347	J10	55
P-0067	MAPpyroB_ARM	MAPPING_PYRO_B_ARM_STAT	PROP	STATUS	1	8109-6	J12	41
P-0068	MIDpyroA_ENA	MID_PYRO_A_ENAB_STAT	PROP	STATUS	1	8109-5	J12	9
P-0069	MIDpyroA_ARM	MID_PYRO_A_ARM_STAT	PROP	STATUS	1	8109-1	J7	9
P-0070	MIDpyroB_ENA	MID_PYRO_B_ENAB_STAT	PROP	STATUS	1	8110-3	J7	80
P-0071	MIDpyroB_ARM	MID_PYRO_B_ARM_STAT	PROP	STATUS	1	8110-7	J12	80
P-0072	PTCMpyrA_ENA	PRE_TCM_PYRO_A_ENAB_STAT	PROP	UNSIGNED	8	82CA	J9	58
P-0073	PTCMpyrB_ENA	PRE_TCM_PYRO_B_ENAB_STAT	PROP	UNSIGNED	8	83C6	J11	54
P-0074	PV6pyroA_ARM	PYRO_VALVE_6_A_ARM_STAT	PROP	STATUS	1	8119-1	J7	25
P-0075	PV6pyroB_ARM	PYRO_VALVE_6_B_ARM_STAT	PROP	STATUS	1	810F-7	J12	79
P-0076	SA+YpyrA_ARM	SA+Y_PYRO_A_ARM_STAT	PROP	STATUS	1	8119-7	J12	89
P-0077	SA+YpyrB_ARM	SA+Y_PYRO_B_ARM_STAT	PROP	STATUS	1	811D-4	J7	125
P-0078	SA-YpyrA_ARM	SA-Y_PYRO_A_ARM_STAT	PROP	STATUS	1	8119-4	J7	121
P-0079	SA-YpyrB_ARM	SA-Y_PYRO_B_ARM_STAT	PROP	STATUS	1	811D-6	J12	61
P-0101	GHe_PRS	GHe_TANK_PRESSURE	PROP	UNSIGNED	8	82AC	J9	44
P-0102	LINE_PRS	LINE_PRESSURE	PROP	UNSIGNED	8	83A5	J11	37
P-0103	NTO_IN_PRS	NTO_TANK_INLET_PRESSURE	PROP	UNSIGNED	8	832C	J10	44
P-0104	N2H4_IN_PRS	N2H4_TANKS_INLET_PRESSURE	PROP	UNSIGNED	8	8324	J10	36
P-0105	NTO_OUT_PRS	NTO_TANK_OUTLET_PRESSURE	PROP	UNSIGNED	8	82A4	J9	36
P-0106	N2H4_OUT_PRS	N2H4_TANKS_OUTLET_PRESSURE	PROP	UNSIGNED	8	839C	J11	28
S-0100	SA+YinrPOT_A	SA+Y_INNER_POTENTIOMETER_A	STR	UNSIGNED	8	832B	J10	43
S-0101	SA+YinrPOT_B	SA+Y_INNER_POTENTIOMETER_B	STR	UNSIGNED	8	8284	J9	4
S-0102	SA+YoutPOT_A	SA+Y_OUTER_POTENTIOMETER_A	STR	UNSIGNED	8	83AB	J11	43
S-0103	SA+YoutPOT_B	SA+Y_OUTER_POTENTIOMETER_B	STR	UNSIGNED	8	8349	J10	57
S-0104	SA-YinrPOT_A	SA-Y_INNER_POTENTIOMETER_A	STR	UNSIGNED	8	828C	J9	12
S-0105	SA-YinrPOT_B	SA-Y_INNER_POTENTIOMETER_B	STR	UNSIGNED	8	8304	J10	4
S-0106	SA-YoutPOT_A	SA-Y_OUTER_POTENTIOMETER_A	STR	UNSIGNED	8	83AD	J11	45
S-0107	SA-YoutPOT_B	SA-Y_OUTER_POTENTIOMETER_B	STR	UNSIGNED	8	8294	J9	20
S-0110	HGA_POT_A	HGA_POTENTIOMETER_A	STR	UNSIGNED	8	834D	J10	61
S-0111	HGA_POT_B	HGA_POTENTIOMETER_B	STR	UNSIGNED	8	82C6	J9	54
T-0001	CSA_P_HTR	CSA_PRI_HEATER_STATUS	AACS	STATUS	1	8105-8	J12	101
T-0002	CSA_S_HTR	CSA_SEC_HEATER_STATUS	AACS	STATUS	1	8105-4	J7	101
T-0003	MHSA_P_HTR	MHSA_PRI_HEATER_STATUS	AACS	STATUS	1	8105-3	J7	69
T-0004	MHSA_S_HTR	MHSA_SEC_HEATER_STATUS	AACS	STATUS	1	8105-7	J12	69
T-0008	DeltaT_P_HTR	PRI_DELTA_T_HTR_TLM	PROP	STATUS	1	811D-5	J12	29
T-0009	DeltaT_S_HTR	SEC_DELTA_T_HTR_TLM	PROP	STATUS	1	810E-1	J7	14
T-0010	PRS_VC1P_HTR	PRESSURANT_VCL1_PRI_HTR_STATUS	PROP	STATUS	1	8114-8	J12	116
T-0011	PRS_VC1S_HTR	PRESSURANT_VCL1_SEC_HTR_STATUS	PROP	STATUS	1	8114-4	J7	116
T-0012	PRS_VC2P_HTR	PRESSURANT_VCL2_PRI_HTR_STATUS	PROP	STATUS	1	8114-3	J7	84
T-0013	PRS_VC2S_HTR	PRESSURANT_VCL2_SEC_HTR_STATUS	PROP	STATUS	1	8114-7	J12	84
T-0014	SvLvCL_P_HTR	SUPPLY_VCL_PRI_HEATER_STATUS	PROP	STATUS	1	8107-8	J12	103

EDF TELEMETRY INDEX (By Channel ID)								
Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
T-0015	SvIvCL_S_HTR	SUPPLY_VCL_SEC_HEATER_STATUS	PROP	STATUS	1	8107-4	J7	103
T-0016	PTANKS_P_ENA	PROP_TANKS_PRI_HTR_ENAB_STATUS	PROP	STATUS	1	8117-2	J7	55
T-0017	PTANKS_S_ENA	PROP_TANKS_SEC_HTR_ENAB_STATUS	PROP	STATUS	1	8117-7	J12	87
T-0018	PTANKS_P_HTR	PROP_TANKS_PRI_HEATER_STATUS	PROP	STATUS	1	8107-3	J7	71
T-0019	PTANKS_S_HTR	PROP_TANKS_SEC_HEATER_STATUS	PROP	STATUS	1	8107-7	J12	71
T-0020	THR_P_HTR	THRUSTER_ENCLOSURE_PRI_HTR_STAT	PROP	STATUS	1	8107-1	J7	7
T-0021	THR_S_HTR	THRUSTER_ENCLOSURE_SEC_HTR_STAT	PROP	STATUS	1	8107-5	J12	7
T-0022	ME_P_HTR	MAIN_ENGINE_PRI_HEATER_STATUS	PROP	STATUS	1	810E-8	J12	110
T-0023	ME_S_HTR	MAIN_ENGINE_SEC_HEATER_STATUS	PROP	STATUS	1	810E-4	J7	110
T-0030	LINEhyzP_ENA	PROP_LINE_N2H4_PRI_ENAB_STATUS	PROP	STATUS	1	810D-5	J12	13
T-0031	LINEhyzS_ENA	PROP_LINE_N2H4_SEC_ENAB_STATUS	PROP	STATUS	1	810D-1	J7	13
T-0032	LINEhyzP_HTR	PROP_LINE_N2H4_PRI_HTR_STAT	PROP	STATUS	1	8105-1	J7	5
T-0033	LINEhyzS_HTR	PROP_LINE_N2H4_SEC_HTR_STAT	PROP	STATUS	1	8105-5	J12	5
T-0036	LINEDtoP_HTR	PROP_LINE_NTO_PRI_HTR_STAT	PROP	STATUS	1	8105-2	J7	37
T-0037	LINEDtoS_HTR	PROP_LINE_NTO_SEC_HTR_STAT	PROP	STATUS	1	8105-6	J12	37
T-0040	BAT_P_HTR	BATTERY_PRI_HEATER_STATUS	PWR	STATUS	1	8117-8	J12	119
T-0041	BAT_S_HTR	BATTERY_SEC_HEATER_STATUS	PWR	STATUS	1	8117-4	J7	119
T-0050	ER_HTR	ER_SENSOR_HTR_PWR	PYLD	STATUS	1	811C-6	J12	60
T-0051	MAG_SENS_HTR	MAG_SENSR_HTR_PWR	PYLD	STATUS	1	811C-5	J12	28
T-0052	MOC_BKOT_SW1	MOC_BAKE_HTR_SWCH1	PYLD	STATUS	1	811C-8	J12	124
T-0053	MOC_BKOT_SW2	MOC_BAKE_HTR_SWCH2	PYLD	STATUS	1	811C-4	J7	124
T-0054	MOC_P_HTR	MOC_PRI_HEATER_STATUS	PYLD	STATUS	1	811C-7	J12	92
T-0055	MOC_S_HTR	MOC_SEC_HEATER_STATUS	PYLD	STATUS	1	811C-3	J7	92
T-0056	MOLA_HTR	MOLA_HEATER_STATUS	PYLD	STATUS	1	811C-2	J7	60
T-0057	TES_HTR	TES_HEATER_ON/OFF	PYLD	STATUS	1	811C-1	J7	28
T-0062	HGA_BM_P_HTR	HGA_BOOM_PRI_HTR_STAT	STR	STATUS	1	810D-3	J7	77
T-0063	HGA_BM_S_HTR	HGA_BOOM_SEC_HTR_STAT	STR	STATUS	1	810D-7	J12	77
T-0064	HGA_HD_P_HTR	HGAHINGE_DAMP_PRI_HTR_STAT	STR	STATUS	1	810D-6	J12	45
T-0065	HGA_HD_S_HTR	HGAHINGE_DAMP_SEC_HTR_STAT	STR	STATUS	1	810D-2	J7	45
T-0070	SA+YGM_P_HTR	SA+Y_GMBL_PRI_HTR_STAT	STR	STATUS	1	8116-6	J12	54
T-0071	SA+YGM_S_HTR	SA+Y_GMBL_SEC_HTR_STAT	STR	STATUS	1	8116-2	J7	54
T-0072	SA-YGM_P_HTR	SA-Y_GMBL_PRI_HTR_STAT	STR	STATUS	1	8116-1	J7	22
T-0073	SA-YGM_S_HTR	SA-Y_GMBL_SEC_HTR_STAT	STR	STATUS	1	8116-5	J12	22
T-0080	EM-X1_P_HTR	EM-X1_PANEL_PRI_HTR_STAT	THRM	STATUS	1	8115-3	J7	85
T-0081	EM-X1_S_HTR	EM-X1_PANEL_SEC_HTR_STAT	THRM	STATUS	1	8115-7	J12	85
T-0082	EM-X2_P_HTR	EM-X2_PANEL_PRI_HTR_STAT	THRM	STATUS	1	8115-8	J12	117
T-0083	EM-X2_S_HTR	EM-X2_PANEL_SEC_HTR_STAT	THRM	STATUS	1	8115-4	J7	117
T-0084	EM+Y_P_HTR	EM+Y_PANEL_PRI_HTR_STAT	THRM	STATUS	1	8115-6	J12	53
T-0085	EM+Y_S_HTR	EM+Y_PANEL_SEC_HTR_STAT	THRM	STATUS	1	8115-2	J7	53
T-0088	TWTGIM_P_HTR	TWTA_ENCL_GMBL_PRI_HTR_STAT	THRM	STATUS	1	810D-8	J12	109
T-0089	TWTGIM_S_HTR	TWTA_ENCL_GMBL_SEC_HTR_STAT	THRM	STATUS	1	810D-4	J7	109
T-0100	CSA_T	CSA_TEMPERATURE	AACS	UNSIGNED	8	82D6	J9	70

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
T-0101	IMU_BLOCK_T	IMU_BLOCK_TEMPERATURE	AACS	UNSIGNED	8	829B	J9	27
T-0102	IMU_HSE_T	IMU_HOUSING_TEMPERATURE	AACS	UNSIGNED	8	83D8	J11	72
T-0103	MHSA_S1_T	MHSA1_TEMPERATURE	AACS	UNSIGNED	8	8288	J9	8
T-0104	MHSA_S2_T	MHSA2_TEMPERATURE	AACS	UNSIGNED	8	839F	J11	31
T-0105	MHSA_HSE_T	MHSA_HOUSING_TEMPERATURE	AACS	UNSIGNED	8	8250	J8	49
T-0106	RWA_X_BRG_T	RWA_X_BEARING_TEMPERATURE	AACS	UNSIGNED	8	829F	J9	31
T-0107	RWA_Y_BRG_T	RWA_Y_BEARING_TEMPERATURE	AACS	UNSIGNED	8	8318	J10	24
T-0108	RWA_Z_BRG_T	RWA_Z_BEARING_TEMPERATURE	AACS	UNSIGNED	8	83AF	J11	47
T-0109	RWA_S_BRG_T	RWA_S_BEARING_TEMPERATURE	AACS	UNSIGNED	8	82AE	J9	46
T-0114	CIU_T	CIU_TEMPERATURE	CDH	UNSIGNED	8	8360	J10	80
T-0115	CIX_T	CIX_TEMPERATURE	CDH	UNSIGNED	8	826F	J8	80
T-0116	EDF_BOX_T	EDF_BOX_TEMPERATURE	CDH	UNSIGNED	8	826D	J8	78
T-0117	GDE_HGA_T	HGA_GDE_TEMPERATURE	CDH	UNSIGNED	8	827B	J8	92
T-0118	GDE_SA1_T	SA1_GDE_TEMPERATURE	CDH	UNSIGNED	8	82E1	J9	81
T-0119	GDE_SA2_T	SA2_GDE_TEMPERATURE	CDH	UNSIGNED	8	8269	J8	74
T-0120	PDS_BOX_T	PDS_TEMPERATURE	CDH	UNSIGNED	8	8256	J8	55
T-0121	RXO_PR_OVN_T	RXO_PRI_OVEN_TEMPERATURE	CDH	UNSIGNED	8	8316	J10	22
T-0122	RXO_BU_OVN_T	RXO_BU_OVEN_TEMPERATURE	CDH	UNSIGNED	8	829E	J9	30
T-0123	RXO_BOX_T	RXO_BOX_TEMPERATURE	CDH	UNSIGNED	8	8257	J8	56
T-0124	SCP1_INTRN_T	SCP1_INTERNAL_TEMPERATURE	CDH	UNSIGNED	8	82DA	J9	74
T-0125	SCP2_INTRN_T	SCP2_INTERNAL_TEMPERATURE	CDH	UNSIGNED	8	83EB	J11	91
T-0126	SSR_1A_T	SSR_1A_TEMPERATURE	CDH	UNSIGNED	8	838F	J11	15
T-0127	SSR_1B_T	SSR_1B_TEMPERATURE	CDH	UNSIGNED	8	824A	J8	43
T-0128	SSR_2A_T	SSR_2A_TEMPERATURE	CDH	UNSIGNED	8	8326	J10	38
T-0129	SSR_2B_T	SSR_2B_TEMPERATURE	CDH	UNSIGNED	8	8281	J9	1
T-0130	XSU_INTRN_T	XSU_INTERNAL_TEMPERATURE	CDH	UNSIGNED	8	83D9	J11	73
T-0131	THR_01_VLV_T	THRUSTER_01_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8361	J10	81
T-0132	THR_02_VLV_T	THRUSTER_02_VALVE_TEMPERATURE	PROP	UNSIGNED	8	82DD	J9	77
T-0133	THR_03_VLV_T	THRUSTER_03_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8264	J8	69
T-0134	THR_04_VLV_T	THRUSTER_04_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8369	J10	89
T-0135	THR_05_VLV_T	THRUSTER_05_VALVE_TEMPERATURE	PROP	UNSIGNED	8	82E5	J9	85
T-0136	THR_06_VLV_T	THRUSTER_06_VALVE_TEMPERATURE	PROP	UNSIGNED	8	825B	J8	60
T-0137	THR_07_VLV_T	THRUSTER_07_VALVE_TEMPERATURE	PROP	UNSIGNED	8	836D	J10	93
T-0138	THR_08_VLV_T	THRUSTER_08_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8253	J8	52
T-0139	THR_09_VLV_T	THRUSTER_09_VALVE_TEMPERATURE	PROP	UNSIGNED	8	82E9	J9	89
T-0140	THR_10_VLV_T	THRUSTER_10_VALVE_TEMPERATURE	PROP	UNSIGNED	8	82D1	J9	65
T-0141	THR_11_VLV_T	THRUSTER_11_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8261	J8	66
T-0142	THR_12_VLV_T	THRUSTER_12_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8352	J10	66
T-0143	THR_01_CB_T	THRUSTER_01_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8200	J8	1
T-0144	THR_02_CB_T	THRUSTER_02_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8209	J8	10
T-0145	THR_03_CB_T	THRUSTER_03_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8212	J8	19
T-0146	THR_04_CB_T	THRUSTER_04_CATBED_TEMPERATURE	PROP	UNSIGNED	8	821B	J8	28

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
T-0147	THR_05_CB_T	THRUSTER_05_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8201	J8	2
T-0148	THR_06_CB_T	THRUSTER_06_CATBED_TEMPERATURE	PROP	UNSIGNED	8	820A	J8	11
T-0149	THR_07_CB_T	THRUSTER_07_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8213	J8	20
T-0150	THR_08_CB_T	THRUSTER_08_CATBED_TEMPERATURE	PROP	UNSIGNED	8	821C	J8	29
T-0151	THR_09_CB_T	THRUSTER_09_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8202	J8	3
T-0152	THR_10_CB_T	THRUSTER_10_CATBED_TEMPERATURE	PROP	UNSIGNED	8	820B	J8	12
T-0153	THR_11_CB_T	THRUSTER_11_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8214	J8	21
T-0154	THR_12_CB_T	THRUSTER_12_CATBED_TEMPERATURE	PROP	UNSIGNED	8	821D	J8	30
T-0155	THR_CLUS_1_T	THRUSTER_CLUSTER_1_TEMPERATURE	PROP	UNSIGNED	8	8277	J8	88
T-0156	THR_CLUS_2_T	THRUSTER_CLUSTER_2_TEMPERATURE	PROP	UNSIGNED	8	82D4	J9	68
T-0157	THR_CLUS_3_T	THRUSTER_CLUSTER_3_TEMPERATURE	PROP	UNSIGNED	8	835C	J10	76
T-0158	THR_CLUS_4_T	THRUSTER_CLUSTER_4_TEMPERATURE	PROP	UNSIGNED	8	83E0	J11	80
T-0159	ME_VALVE_T1	MAIN_ENGINE_VALVE_TEMP_1	PROP	UNSIGNED	8	8279	J8	90
T-0161	ME_FLANGE_T1	MAIN_ENGINE_FLANGE_TEMP_1	PROP	UNSIGNED	8	82EB	J9	91
T-0162	ME_FLANGE_T2	MAIN_ENGINE_FLANGE_TEMP_2	PROP	UNSIGNED	8	826E	J8	79
T-0164	PRES_CNTL1_T	PRESSURANT_CNTL1_TEMPERATURE	PROP	UNSIGNED	8	836F	J10	95
T-0165	PRES_CNTL2_T	PRESSURANT_CNTL2_TEMPERATURE	PROP	UNSIGNED	8	83E2	J11	82
T-0166	PYRO_VGRP1_T	PYRO_VALVE_GROUP1_TEMPERATURE	PROP	UNSIGNED	8	836B	J10	91
T-0167	PYRO_VGRP2_T	PYRO_VALVE_GROUP2_TEMPERATURE	PROP	UNSIGNED	8	83E3	J11	83
T-0168	SUP_V_CLS1_T	SUPPLY_VALVE_CLUSTER1_TEMP	PROP	UNSIGNED	8	82D0	J9	64
T-0169	SUP_V_CLS2_T	SUPPLY_VALVE_CLUSTER2_TEMP	PROP	UNSIGNED	8	835D	J10	77
T-0170	SUP_V_CLS3_T	SUPPLY_VALVE_CLUSTER3_TEMP	PROP	UNSIGNED	8	83EE	J11	94
T-0171	SUP_V_CLS4_T	SUPPLY_VALVE_CLUSTER4_TEMP	PROP	UNSIGNED	8	8263	J8	68
T-0172	VALV_GRP1_T	VALVE_GROUP1_TEMPERATURE	PROP	UNSIGNED	8	83D2	J11	66
T-0173	VALV_GRP2_T	VALVE_GROUP2_TEMPERATURE	PROP	UNSIGNED	8	836C	J10	92
T-0174	VALV_GRP3_T	VALVE_GROUP3_TEMPERATURE	PROP	UNSIGNED	8	82EE	J9	94
T-0175	VALV_GRP4_T	VALVE_GROUP4_TEMPERATURE	PROP	UNSIGNED	8	8278	J8	89
T-0176	GHe_TANK_T1	GHe_TANK_TEMPERATURE_1	PROP	UNSIGNED	8	8272	J8	83
T-0177	GHe_TANK_T2	GHe_TANK_TEMPERATURE_2	PROP	UNSIGNED	8	83E1	J11	81
T-0178	NTO_TANK_T1	NTO_TANK_TEMPERATURE_1	PROP	UNSIGNED	8	835B	J10	75
T-0179	NTO_TANK_T2	NTO_TANK_TEMPERATURE_2	PROP	UNSIGNED	8	8271	J8	82
T-0180	N2H4_TNK1_T1	N2H4_TANK1_TEMPERATURE_1	PROP	UNSIGNED	8	83EC	J11	92
T-0181	N2H4_TNK1_T2	N2H4_TANK1_TEMPERATURE_2	PROP	UNSIGNED	8	82E4	J9	84
T-0182	N2H4_TNK2_T1	N2H4_TANK2_TEMPERATURE_1	PROP	UNSIGNED	8	827A	J8	91
T-0183	N2H4_TNK2_T2	N2H4_TANK2_TEMPERATURE_2	PROP	UNSIGNED	8	8354	J10	68
T-0184	MEV1_LINE_T	MAIN_ENGINE_VALVE1_LINE_TEMP	PROP	UNSIGNED	8	83DF	J11	79
T-0185	MEV2_LINE_T	MAIN_ENGINE_VALVE2_LINE_TEMP	PROP	UNSIGNED	8	83E6	J11	86
T-0186	NTOinLINE_T	NTO_INLET_LINE_TEMP	PROP	UNSIGNED	8	82E3	J9	83
T-0187	N2H4inLINE_T	N2H4_INLET_LINE_TEMP	PROP	UNSIGNED	8	82E0	J9	80
T-0188	PCAlpLINE_T	PCA_LOW_PRES_LINE_TEMP	PROP	UNSIGNED	8	83DE	J11	78
T-0189	PCAhpLINE_T	PCA_HIGH_PRES_LINE_TEMP	PROP	UNSIGNED	8	8259	J8	58
T-0190	GHesupLINE_T	GHe_SUPPLY_LINE_TEMP	PROP	UNSIGNED	8	82D2	J9	66

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
T-0191	THRoddLINE_T	THRUSTERS_ODD_LINE_TEMP	PROP	UNSIGNED	8	8273	J8	84
T-0192	THRevnLINE_T	THRUSTERS_EVEN_LINE_TEMP	PROP	UNSIGNED	8	8260	J8	65
T-0196	BCA_TRSTR1_T	BRC1_TRANSISTOR_Q1_TEMPERATURE	PWR	UNSIGNED	8	83D6	J11	70
T-0197	BCA_TRSTR2_T	BRC1_TRANSISTOR_Q3_TEMPERATURE	PWR	UNSIGNED	8	83DA	J11	74
T-0198	BCA_TRSTR3_T	BRC2_TRANSISTOR_Q1_TEMPERATURE	PWR	UNSIGNED	8	82E8	J9	88
T-0199	BCA_TRSTR4_T	BRC2_TRANSISTOR_Q3_TEMPERATURE	PWR	UNSIGNED	8	83E5	J11	85
T-0200	BAT1_T1	BATT_PACK_1_A_TEMPERATURE	PWR	UNSIGNED	8	8270	J8	81
T-0201	BAT1_T2	BATT_PACK_1_B_TEMPERATURE	PWR	UNSIGNED	8	8350	J10	64
T-0202	BAT2_T1	BATT_PACK_2_A_TEMPERATURE	PWR	UNSIGNED	8	8366	J10	86
T-0203	BAT2_T2	BATT_PACK_2_B_TEMPERATURE	PWR	UNSIGNED	8	825E	J8	63
T-0205	BCR1_HSNK_T	BCR1_HEAT_SINK_TEMPERATURE	PWR	UNSIGNED	8	8283	J9	3
T-0206	BCR2_HSNK_T	BCR2_HEAT_SINK_TEMPERATURE	PWR	UNSIGNED	8	8303	J10	3
T-0207	PSA_T1	PSA_TEMPERATURE_1	PWR	UNSIGNED	8	8358	J10	72
T-0208	PSA_T2	PSA_TEMPERATURE_2	PWR	UNSIGNED	8	83E8	J11	88
T-0209	PSE_HSNK_T	PSE_HEAT_SINK_TEMPERATURE	PWR	UNSIGNED	8	838B	J11	11
T-0210	SA+Y_INR_F_T	SA+Y_INNER_FRONT_TEMPERATURE	PWR	UNSIGNED	8	8267	J8	72
T-0211	SA+Y_INR_B_T	SA+Y_INNER_BACK_TEMPERATURE	PWR	UNSIGNED	8	82E7	J9	87
T-0212	SA+Y_OUT_F_T	SA+Y_OUTER_FRONT_TEMPERATURE	PWR	UNSIGNED	8	8357	J10	71
T-0213	SA+Y_OUT_B_T	SA+Y_OUTER_BACK_TEMPERATURE	PWR	UNSIGNED	8	83ED	J11	93
T-0214	SA-Y_INR_F_T	SA-Y_INNER_FRONT_TEMPERATURE	PWR	UNSIGNED	8	826B	J8	76
T-0215	SA-Y_INR_B_T	SA-Y_INNER_BACK_TEMPERATURE	PWR	UNSIGNED	8	82DF	J9	79
T-0216	SA-Y_OUT_F_T	SA-Y_OUTER_FRONT_TEMPERATURE	PWR	UNSIGNED	8	8359	J10	73
T-0217	SA-Y_OUT_B_T	SA-Y_OUTER_BACK_TEMPERATURE	PWR	UNSIGNED	8	83E4	J11	84
T-0221	ER_SENSOR_T	ER_SENSOR_TEMPERATURE	PYLD	UNSIGNED	8	8286	J9	6
T-0222	MAG_ELC_T	MAG ELECTRONICS TEMPERATURE	PYLD	UNSIGNED	8	827D	J8	94
T-0223	MAG_+Y_T	MAG_+Y_TEMPERATURE	PYLD	UNSIGNED	8	8293	J9	19
T-0224	MAG_-Y_T	MAG_-Y_TEMPERATURE	PYLD	UNSIGNED	8	8313	J10	19
T-0225	MR_ANT_T	MR_ANTENNA_TEMPERATURE	PYLD	UNSIGNED	8	8268	J8	73
T-0226	MR_ELEC_T	MR_ELECTRONICS_TEMPERATURE	PYLD	UNSIGNED	8	83DB	J11	75
T-0227	MOC_ELEC_T	MOC_ELECTRONICS_TEMPERATURE	PYLD	UNSIGNED	8	83DC	J11	76
T-0228	MOC_LWR_SM_T	MOC_LOWER_SM_TEMPERATURE	PYLD	UNSIGNED	8	82DC	J9	76
T-0229	MOC_NAfp_T	MOC_NAfp_TEMPERATURE	PYLD	UNSIGNED	8	8255	J8	54
T-0230	MOC_UPR_SM_T	MOC_UPPER_SM_TEMPERATURE	PYLD	UNSIGNED	8	83E7	J11	87
T-0231	MOC_WAA_T	MOC_WAA_TEMPERATURE	PYLD	UNSIGNED	8	8251	J8	50
T-0232	MOLA_ELEC_T	MOLA_ELECTRONICS_BOX_TEMP	PYLD	UNSIGNED	8	8351	J10	65
T-0233	MOLA_LSR_T	MOLA LASER_BOX_TEMP	PYLD	UNSIGNED	8	82D3	J9	67
T-0234	TES_OPTICS_T	TES_OPTICS_TEMPERATURE	PYLD	UNSIGNED	8	83D4	J11	68
T-0235	TES_ELEC_T	TES_ELECTRONICS_TEMPERATURE	PYLD	UNSIGNED	8	827C	J8	93
T-0240	HGA_CABLE_T	HGA_CABLE_TEMPERATURE	STR	UNSIGNED	8	83DD	J11	77
T-0241	HGA_DAMPER_T	HGA_DAMPER_TEMPERATURE	STR	UNSIGNED	8	825D	J8	62
T-0243	HGA_GIMBL1_T	HGA_GIMBAL1_TEMPERATURE	STR	UNSIGNED	8	82D9	J9	73
T-0244	HGA_GIMBL2_T	HGA_GIMBAL2_TEMPERATURE	STR	UNSIGNED	8	83D5	J11	69

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
T-0252	SA+Y_GMBL1_T	SA+Y_GIMBAL1_TEMPERATURE	STR	UNSIGNED	8	826C	J8	77
T-0253	SA+Y_GMBL2_T	SA+Y_GIMBAL2_TEMPERATURE	STR	UNSIGNED	8	8355	J10	69
T-0254	SA-Y_GMBL1_T	SA-Y_GIMBAL1_TEMPERATURE	STR	UNSIGNED	8	83D3	J11	67
T-0255	SA-Y_GMBL2_T	SA-Y_GIMBAL2_TEMPERATURE	STR	UNSIGNED	8	82DB	J9	75
T-0260	AFT_PANEL1_T	AFT_PANEL1_TEMPERATURE	THRM	UNSIGNED	8	8367	J10	87
T-0262	CENT_COLM1_T	CENTER_COLUMN1_TEMPERATURE	THRM	UNSIGNED	8	836A	J10	90
T-0263	CENT_COLM2_T	CENTER_COLUMN2_TEMPERATURE	THRM	UNSIGNED	8	826A	J8	75
T-0264	DIV_PANEL1_T	DIVIDER_PANEL1_TEMPERATURE	THRM	UNSIGNED	8	8274	J8	85
T-0265	DIV_PANEL2_T	DIVIDER_PANEL2_TEMPERATURE	THRM	UNSIGNED	8	82D8	J9	72
T-0266	DIV_PANEL3_T	DIVIDER_PANEL3_TEMPERATURE	THRM	UNSIGNED	8	8363	J10	83
T-0267	DIV_PANEL4_T	DIVIDER_PANEL4_TEMPERATURE	THRM	UNSIGNED	8	83D1	J11	65
T-0269	EM-X_RADTR_T	EM-X_RADIATOR_TEMPERATURE	THRM	UNSIGNED	8	835E	J10	78
T-0270	EM+X_PNL_T1	EM+X_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	8364	J10	84
T-0271	EM-X_PNL_T1	EM-X_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	825F	J8	64
T-0272	EM-X_PNL_T2	EM-X_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	835A	J10	74
T-0273	EM-X_PNL_T3	EM-X_PANEL_TEMPERATURE_3	THRM	UNSIGNED	8	825A	J8	59
T-0274	EM+Y_PNL_T1	EM+Y_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	827E	J8	95
T-0275	EM+Y_PNL_T2	EM+Y_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	82DE	J9	78
T-0276	EM-Y_PNL_T1	EM-Y_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	8276	J8	87
T-0277	EM-Y_PNL_T2	EM-Y_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	8362	J10	82
T-0278	EM-Z_PNL_T1	EM-Z_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	8266	J8	71
T-0279	EM-Z_PNL_T2	EM-Z_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	82E2	J9	82
T-0280	HGA_T	HIGH_GAIN_ANTENNA_TEMPERATURE	THRM	UNSIGNED	8	8252	J8	51
T-0284	LV_CVR_TWT_T	LOUVER_COVER_TWTA_TEMPERATURE	THRM	UNSIGNED	8	82ED	J9	93
T-0285	NADIR_PNL_T1	NADIR_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	8353	J10	67
T-0286	NADIR_PNL_T2	NADIR_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	82EA	J9	90
T-0300	CDU1_T	CDU1_TEMPERATURE	TLCM	UNSIGNED	8	8265	J8	70
T-0301	CDU2_T	CDU2_TEMPERATURE	TLCM	UNSIGNED	8	83E9	J11	89
T-0302	EPC1_T	EPC1_TEMPERATURE	TLCM	UNSIGNED	8	8254	J8	53
T-0303	EPC2_T	EPC2_TEMPERATURE	TLCM	UNSIGNED	8	83EF	J11	95
T-0304	MOT1_AUX_T	MOT1_AUX_OSC_TEMPERATURE	TLCM	UNSIGNED	8	83D0	J11	64
T-0305	MOT1_VCO_T	MOT1_REC_VCO_TEMPERATURE	TLCM	UNSIGNED	8	8368	J10	88
T-0307	MOT2_AUX_T	MOT2_AUX_OSC_TEMPERATURE	TLCM	UNSIGNED	8	82D7	J9	71
T-0308	MOT2_VCO_T	MOT2_REC_VCO_TEMPERATURE	TLCM	UNSIGNED	8	825C	J8	61
T-0310	RF_ISOLTR1_T	RF_ISOLATOR_1_TEMPERATURE	TLCM	UNSIGNED	8	83EA	J11	90
T-0311	RF_ISOLTR2_T	RF_ISOLATOR_2_TEMPERATURE	TLCM	UNSIGNED	8	835F	J10	79
T-0312	TWT1_T	TWT1_TEMPERATURE	TLCM	UNSIGNED	8	82EF	J9	95
T-0313	TWT2_T	TWT2_TEMPERATURE	TLCM	UNSIGNED	8	8275	J8	86
T-0314	TWTA_ENCL_T	TWTA_ENCLOSURE_TEMPERATURE	TLCM	UNSIGNED	8	8365	J10	85
T-0315	USO_T	USO_TEMPERATURE	TLCM	UNSIGNED	8	8262	J8	67
T-0316	KA_AMP_T	KA_AMP_TEMPERATURE	TLCM	UNSIGNED	8	8356	J10	70

Appendix A2

EDF Telemetry Index (By MOS Mnemonic)

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EDF TELEMETRY INDEX
 (By Mnemonic)

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
A-0183	ACCEL_+S	ACCELRATION_+S	AACS	UNSIGNED	8	8327	J10	39
A-0182	ACCEL_+Z	ACCELRATION_+Z	AACS	UNSIGNED	8	82CF	J9	63
A-0180	ACCEL_-X	ACCELRATION_-X	AACS	UNSIGNED	8	83C1	J11	49
A-0181	ACCEL_-Y	ACCELRATION_-Y	AACS	UNSIGNED	8	8248	J8	41
T-0260	AFT_PANEL1_T	AFT_PANEL1_TEMPERATURE	THRM	UNSIGNED	8	8367	J10	87
C-0101	A_CAL1_1.28V	EDF1_AN_CAL_V_1.28	CDH	UNSIGNED	8	8329	J10	41
C-0103	A_CAL1_2.56V	EDF1_AN_CAL_V_2.56	CDH	UNSIGNED	8	834C	J10	60
C-0105	A_CAL1_3.84V	EDF1_AN_CAL_V_3.84	CDH	UNSIGNED	8	83A9	J11	41
C-0107	A_CAL1_5.12V	EDF1_AN_CAL_V_5.12	CDH	UNSIGNED	8	824D	J8	46
C-0102	A_CAL2_1.28V	EDF2_AN_CAL_V_1.28	CDH	UNSIGNED	8	82A6	J9	38
C-0104	A_CAL2_2.56V	EDF2_AN_CAL_V_2.56	CDH	UNSIGNED	8	82AF	J9	47
C-0106	A_CAL2_3.84V	EDF2_AN_CAL_V_3.84	CDH	UNSIGNED	8	832F	J10	47
C-0108	A_CAL2_5.12V	EDF2_AN_CAL_V_5.12	CDH	UNSIGNED	8	82C4	J9	52
E-0002	BAT1_BU_CHG	BAT1_BU_CHARGE_PATH	PWR	STATUS	1	810B-6	J12	43
E-0003	BAT1_CHG_CFG	BAT1_CHARGE_CONFIG	PWR	STATUS	1	8117-1	J7	23
E-0105	BAT1_CHRG_I	BAT1_CHARGE_CURRENT	PWR	UNSIGNED	8	830A	J10	10
E-0104	BAT1_CHRG_RT	BAT1_CHARGE_RATE_STATUS	PWR	UNSIGNED	8	8395	J11	21
E-0106	BAT1_DCHG_I	BAT1_DISCHG_CURRENT	PWR	UNSIGNED	8	838A	J11	10
E-0103	BAT1_HALF_V	BAT1_HALF_VOLTAGE	PWR	UNSIGNED	8	832A	J10	42
E-0101	BAT1_HI_V	BAT1_VOLTAGE_HIGH_RANGE	PWR	UNSIGNED	8	8247	J8	40
E-0102	BAT1_LO_V	BAT1_VOLTAGE_LOW_RANGE	PWR	UNSIGNED	8	8292	J9	18
E-0108	BAT1_PRESS_1	BAT1_PRESSURE_SENSOR_1	PWR	UNSIGNED	8	8314	J10	20
E-0109	BAT1_PRESS_2	BAT1_PRESSURE_SENSOR_2	PWR	UNSIGNED	8	82AB	J9	43
E-0001	BAT1_PR_CHG	BAT1_PRI_CHARGE_PATH	PWR	STATUS	1	810C-4	J7	108
T-0200	BAT1_T1	BATT_PACK_1_A_TEMPERATURE	PWR	UNSIGNED	8	8270	J8	81
T-0201	BAT1_T2	BATT_PACK_1_B_TEMPERATURE	PWR	UNSIGNED	8	8350	J10	64
E-0004	BAT1_TRK_ENA	BAT1_TRICKLE_ENABLE	PWR	STATUS	1	810B-4	J7	107
E-0005	BAT1_TRK_ON	BAT1_TRICKLE_ON	PWR	STATUS	1	810B-2	J7	43
E-0107	BAT1_VT_LMIT	BAT1_VT_LIMIT_STATE	PWR	UNSIGNED	8	8392	J11	18
E-0006	BAT1_VT_SHFT	BAT1_VT_SHIFT_STATUS	PWR	STATUS	1	810B-8	J12	107
E-0012	BAT2_BU_CHG	BAT2_BU_CHARGE_PATH	PWR	STATUS	1	810C-3	J7	76
E-0013	BAT2_CHG_CFG	BAT2_CHARGE_CONFIG	PWR	STATUS	1	810B-5	J12	11
E-0115	BAT2_CHRG_I	BAT2_CHARGE_CURRENT	PWR	UNSIGNED	8	82C7	J9	55
E-0114	BAT2_CHRG_RT	BAT2_CHARGE_RATE_STATUS	PWR	UNSIGNED	8	831A	J10	26
E-0116	BAT2_DCHG_I	BAT2_DISCHG_CURRENT	PWR	UNSIGNED	8	83C8	J11	56
E-0113	BAT2_HALF_V	BAT2_HALF_VOLTAGE	PWR	UNSIGNED	8	83AA	J11	42
E-0111	BAT2_HI_V	BAT2_VOLTAGE_HIGH_RANGE	PWR	UNSIGNED	8	8282	J9	2
E-0112	BAT2_LO_V	BAT2_VOLTAGE_LOW_RANGE	PWR	UNSIGNED	8	829A	J9	26
E-0118	BAT2_PRESS_1	BAT2_PRESSURE_SENSOR_1	PWR	UNSIGNED	8	83A3	J11	35
E-0119	BAT2_PRESS_2	BAT2_PRESSURE_SENSOR_2	PWR	UNSIGNED	8	8242	J8	35
E-0011	BAT2_PR_CHG	BAT2_PRI_CHARGE_PATH	PWR	STATUS	1	810B-1	J7	11
T-0202	BAT2_T1	BATT_PACK_2_A_TEMPERATURE	PWR	UNSIGNED	8	8366	J10	86

EDF TELEMETRY INDEX
 (By Mnemonic)

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
T-0203	BAT2_T2	BATT_PACK_2_B_TEMPERATURE	PWR	UNSIGNED	8	825E	J8	63
E-0014	BAT2_TRK_ENA	BAT2_TRICKLE_ENABLE	PWR	STATUS	1	810B-7	J12	75
E-0015	BAT2_TRK_ON	BAT2_TRICKLE_ON	PWR	STATUS	1	810B-3	J7	75
E-0117	BAT2_VT_LMIT	BAT2_VT_LIMIT_STATE	PWR	UNSIGNED	8	8298	J9	24
E-0016	BAT2_VT_SHFT	BAT2_VT_SHIFT_STATUS	PWR	STATUS	1	810C-5	J12	12
T-0040	BAT_P_HTR	BATTERY_PRI_HEATER_STATUS	PWR	STATUS	1	8117-8	J12	119
T-0041	BAT_S_HTR	BATTERY_SEC_HEATER_STATUS	PWR	STATUS	1	8117-4	J7	119
T-0196	BCA_TRSTR1_T	BRC1_TRANSISTOR_Q1_TEMPERATURE	PWR	UNSIGNED	8	83D6	J11	70
T-0197	BCA_TRSTR2_T	BRC1_TRANSISTOR_Q3_TEMPERATURE	PWR	UNSIGNED	8	83DA	J11	74
T-0198	BCA_TRSTR3_T	BRC2_TRANSISTOR_Q1_TEMPERATURE	PWR	UNSIGNED	8	82E8	J9	88
T-0199	BCA_TRSTR4_T	BRC2_TRANSISTOR_Q3_TEMPERATURE	PWR	UNSIGNED	8	83E5	J11	85
T-0205	BCR1_HSNK_T	BCR1_HEAT_SINK_TEMPERATURE	PWR	UNSIGNED	8	8283	J9	3
T-0206	BCR2_HSNK_T	BCR2_HEAT_SINK_TEMPERATURE	PWR	UNSIGNED	8	8303	J10	3
L-0012	CDU1_BITRATE	CDU1_DATA_BIT_RATE	TLCM	STATUS	3	8010-6	J6	29
L-0013	CDU1_LOCK	CDU1_DATA_LOCK_STATUS	TLCM	STATUS	1	8010-5	J6	29
L-0100	CDU1_OSC_DRF	CDU1_OSC_DRIFT	TLCM	UNSIGNED	7	8018-2	J6	9
L-0001	CDU1_OSC_MON	CDU1_OSC_MONITOR	TLCM	DIGITAL	8	8018	J6	9
L-0011	CDU1_OSC_OFL	CDU1_OSC_MON_OVER_FLOW	TLCM	STATUS	1	8018-1	J6	9
L-0014	CDU1_SEU	CDU1_SINGLE_EVENT_UPSET	TLCM	STATUS	1	8010-4	J6	29
L-0101	CDU1_SNR	CDU1_SIGNAL-NOISE_RATIO	TLCM	UNSIGNED	8	8014	J6	29
L-0010	CDU1_SPARES	CDU1_DATA_SPARES	TLCM	STATUS	3	8010-1	J6	29
L-0002	CDU1_STA_DAT	CDU1_SERIAL_DATA	TLCM	DIGITAL	8	8010	J6	29
T-0300	CDU1_T	CDU1_TEMPERATURE	TLCM	UNSIGNED	8	8265	J8	70
L-0022	CDU2_BITRATE	CDU2_DATA_BIT_RATE	TLCM	STATUS	3	8020-6	J13	29
L-0023	CDU2_LOCK	CDU2_DATA_LOCK_STATUS	TLCM	STATUS	1	8020-5	J13	29
L-0102	CDU2_OSC_DRF	CDU2_OSC_DRIFT	TLCM	UNSIGNED	7	8028-2	J13	9
L-0003	CDU2_OSC_MON	CDU2_OSC_MONITOR	TLCM	DIGITAL	8	8028	J13	9
L-0021	CDU2_OSC_OFL	CDU2_OSC_MON_OVER_FLOW	TLCM	STATUS	1	8028-1	J13	9
L-0024	CDU2_SEU	CDU2_SINGLE_EVENT_UPSET	TLCM	STATUS	1	8020-4	J13	29
L-0103	CDU2_SNR	CDU2_SIGNAL-NOISE_RATIO	TLCM	UNSIGNED	8	8024	J13	29
L-0020	CDU2_SPARES	CDU2_DATA_SPARES	TLCM	STATUS	3	8020-1	J13	29
L-0004	CDU2_STA_DAT	CDU2_SERIAL_DATA	TLCM	DIGITAL	8	8020	J13	29
T-0301	CDU2_T	CDU2_TEMPERATURE	TLCM	UNSIGNED	8	83E9	J11	89
T-0262	CENT_COLM1_T	CENTER_COLUMN1_TEMPERATURE	THR	UNSIGNED	8	836A	J10	90
T-0263	CENT_COLM2_T	CENTER_COLUMN2_TEMPERATURE	THR	UNSIGNED	8	826A	J8	75
C-0109	CIU_ACEdaA_V	CIU_ACE_ABUS_OUPUT	CDH	UNSIGNED	8	8321	J10	33
C-0110	CIU_ACEdaB_V	CIU_ACE_BBUS_OUPUT	CDH	UNSIGNED	8	82A1	J9	33
C-0111	CIU_ACE_A_RV	CIU_ACE_A_REF_VOLT	CDH	UNSIGNED	8	8399	J11	25
C-0112	CIU_ACE_B_RV	CIU_ACE_B_REF_VOLT	CDH	UNSIGNED	8	824C	J8	45
C-0001	CIU_BUS_SLCT	CIU_BUS_SELECTED	CDH	STATUS	1	8119-5	J12	25
C-0008	CIU_CLOCK_SL	CIU_CLOCK_SELECT	CDH	STATUS	1	8102-8	J12	98
C-0002	CIU_CNTR_SCP	CIU_SCP_IN_CONTROL	CDH	STATUS	1	811B-7	J12	91

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
C-0003	CIU_DESR_BUS	CIU_DESRED_BUS:	CDH	STATUS	1	8103-8	J12	99
C-0113	CIU_EPC+10AV	CIU_EPC_+10V_A	CDH	UNSIGNED	8	8291	J9	17
C-0114	CIU_EPC+10BV	CIU_EPC_+10V_B	CDH	UNSIGNED	8	8311	J10	17
C-0115	CIU_EPC-10AV	CIU_EPC_-10V_A	CDH	UNSIGNED	8	8391	J11	17
C-0116	CIU_EPC-10BV	CIU_EPC_-10V_B	CDH	UNSIGNED	8	8243	J8	36
C-0004	CIU_IO_X_ST	CIU_IO_CROSSTATE	CDH	STATUS	1	811B-3	J7	91
C-0005	CIU_RXO_SLCT	CIU_RXO_SELECTED	CDH	STATUS	1	8119-8	J12	121
C-0006	CIU_SCP1_NOK	CIU_SCP1_OK_STATUS	CDH	STATUS	1	811B-5	J12	27
C-0007	CIU_SCP2_NOK	CIU_SCP2_OK_STATUS	CDH	STATUS	1	811B-1	J7	27
T-0114	CIU_T	CIU_TEMPERATURE	CDH	UNSIGNED	8	8360	J10	80
C-0009	CIX_BUS_SLCT	CIX_BUS_SELECT	CDH	STATUS	1	811A-6	J12	58
C-0010	CIX_IO_X_ST	CIX_IO_CROSSTATE	CDH	STATUS	1	8119-2	J7	57
T-0115	CIX_T	CIX_TEMPERATURE	CDH	UNSIGNED	8	826F	J8	80
P-0061	CNTpyroA_ARM	CONTINGENCY_PYRO_A_ARM_STAT	PROP	STATUS	1	8119-6	J12	57
P-0060	CNTpyroA_ENA	CONTINGENCY_PYRO_A_ENAB_STAT	PROP	UNSIGNED	8	8244	J8	37
P-0063	CNTpyroB_ARM	CONTINGENCY_PYRO_B_ARM_STAT	PROP	STATUS	1	811D-3	J7	93
P-0062	CNTpyroB_ENA	CONTINGENCY_PYRO_B_ENAB_STAT	PROP	UNSIGNED	8	83C7	J11	55
T-0001	CSA_P_HTR	CSA_PRI_HEATER_STATUS	AACS	STATUS	1	8105-8	J12	101
T-0002	CSA_S_HTR	CSA_SEC_HEATER_STATUS	AACS	STATUS	1	8105-4	J7	101
T-0100	CSA_T	CSA_TEMPERATURE	AACS	UNSIGNED	8	82D6	J9	70
A-0100	CSA_TRA+14_V	CSA_TRIAD_A_+14V	AACS	UNSIGNED	8	824B	J8	44
A-0101	CSA_TRA-14_V	CSA_TRIAD_A_-14V	AACS	UNSIGNED	8	83C0	J11	48
A-0102	CSA_TRB+14_V	CSA_TRIAD_B_+14V	AACS	UNSIGNED	8	8342	J10	50
A-0103	CSA_TRB-14_V	CSA_TRIAD_B_-14V	AACS	UNSIGNED	8	8249	J8	42
A-0001	CS_TRI_A_PWR	CS_TRIAD_A_POWER	AACS	STATUS	1	8104-7	J12	68
A-0002	CS_TRI_B_PWR	CS_TRIAD_B_POWER	AACS	STATUS	1	8104-4	J7	100
T-0008	DeltaT_P_HTR	PRI_DELTA_T_HTR_TLM	PROP	STATUS	1	811D-5	J12	29
T-0009	DeltaT_S_HTR	SEC_DELTA_T_HTR_TLM	PROP	STATUS	1	810E-1	J7	14
T-0264	DIV_PANEL1_T	DIVIDER_PANEL1_TEMPERATURE	THRM	UNSIGNED	8	8274	J8	85
T-0265	DIV_PANEL2_T	DIVIDER_PANEL2_TEMPERATURE	THRM	UNSIGNED	8	82D8	J9	72
T-0266	DIV_PANEL3_T	DIVIDER_PANEL3_TEMPERATURE	THRM	UNSIGNED	8	8363	J10	83
T-0267	DIV_PANEL4_T	DIVIDER_PANEL4_TEMPERATURE	THRM	UNSIGNED	8	83D1	J11	65
C-0118	EDF1_CAL_I	EDF1_CALIBR_CURRNT	CDH	UNSIGNED	8	83D7	J11	71
C-0117	EDF1_CNV_V	EDF_CONVSTAT_SIDE1	CDH	UNSIGNED	8	8309	J10	9
C-0120	EDF2_CAL_I	EDF2_CALIBR_CURRNT	CDH	UNSIGNED	8	8258	J8	57
C-0119	EDF2_CNV_V	EDF_CONVSTAT_SIDE2	CDH	UNSIGNED	8	8389	J11	9
T-0116	EDF_BOX_T	EDF_BOX_TEMPERATURE	CDH	UNSIGNED	8	826D	J8	78
C-0011	EDF_SIDE1_ST	EDF_SIDE_1_POWER	CDH	STATUS	1	8119-3	J7	89
C-0012	EDF_SIDE2_ST	EDF_SIDE_2_POWER	CDH	STATUS	1	811A-8	J12	122
T-0270	EM+X_PNL_T1	EM+X_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	8364	J10	84
T-0274	EM+Y_PNL_T1	EM+Y_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	827E	J8	95
T-0275	EM+Y_PNL_T2	EM+Y_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	82DE	J9	78

EDF TELEMETRY INDEX
 (By Mnemonic)

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
T-0084	EM+Y_P_HTR	EM+Y_PANEL_PRI_HTR_STAT	THRM	STATUS	1	8115-6	J12	53
T-0085	EM+Y_S_HTR	EM+Y_PANEL_SEC_HTR_STAT	THRM	STATUS	1	8115-2	J7	53
T-0080	EM-X1_P_HTR	EM-X1_PANEL_PRI_HTR_STAT	THRM	STATUS	1	8115-3	J7	85
T-0081	EM-X1_S_HTR	EM-X1_PANEL_SEC_HTR_STAT	THRM	STATUS	1	8115-7	J12	85
T-0082	EM-X2_P_HTR	EM-X2_PANEL_PRI_HTR_STAT	THRM	STATUS	1	8115-8	J12	117
T-0083	EM-X2_S_HTR	EM-X2_PANEL_SEC_HTR_STAT	THRM	STATUS	1	8115-4	J7	117
T-0271	EM-X_PNL_T1	EM-X_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	825F	J8	64
T-0272	EM-X_PNL_T2	EM-X_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	835A	J10	74
T-0273	EM-X_PNL_T3	EM-X_PANEL_TEMPERATURE_3	THRM	UNSIGNED	8	825A	J8	59
T-0269	EM-X_RADTR_T	EM-X_RADIATOR_TEMPERATURE	THRM	UNSIGNED	8	835E	J10	78
T-0276	EM-Y_PNL_T1	EM-Y_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	8276	J8	87
T-0277	EM-Y_PNL_T2	EM-Y_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	8362	J10	82
T-0278	EM-Z_PNL_T1	EM-Z_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	8266	J8	71
T-0279	EM-Z_PNL_T2	EM-Z_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	82E2	J9	82
T-0302	EPC1_T	EPC1_TEMPERATURE	TLCM	UNSIGNED	8	8254	J8	53
T-0303	EPC2_T	EPC2_TEMPERATURE	TLCM	UNSIGNED	8	83EF	J11	95
I-0001	ER_COVER_POS	ER_COVER_STATUS	PYLD	STATUS	1	810C-6	J12	44
T-0050	ER_HTR	ER_SENSOR_HTR_PWR	PYLD	STATUS	1	811C-6	J12	60
T-0221	ER_SENSOR_T	ER_SENSOR_TEMPERATURE	PYLD	UNSIGNED	8	8286	J9	6
T-0117	GDE_HGA_T	HGA_GDE_TEMPERATURE	CDH	UNSIGNED	8	827B	J8	92
T-0118	GDE_SA1_T	SA1_GDE_TEMPERATURE	CDH	UNSIGNED	8	82E1	J9	81
T-0119	GDE_SA2_T	SA2_GDE_TEMPERATURE	CDH	UNSIGNED	8	8269	J8	74
T-0190	GHeupLINE_T	GHe_SUPPLY_LINE_TEMP	PROP	UNSIGNED	8	82D2	J9	66
P-0101	GHe_PRS	GHe_TANK_PRESSURE	PROP	UNSIGNED	8	82AC	J9	44
T-0176	GHe_TANK_T1	GHe_TANK_TEMPERATURE_1	PROP	UNSIGNED	8	8272	J8	83
T-0177	GHe_TANK_T2	GHe_TANK_TEMPERATURE_2	PROP	UNSIGNED	8	83E1	J11	81
A-0160	GYRO1_MTR_I	GYRO_1_MOTOR_CURRENT	AACS	UNSIGNED	8	8344	J10	52
A-0003	GYRO1_SP_MTR	GYRO_1_SPIN_MOTOR	AACS	STATUS	1	8108-8	J12	104
A-0161	GYRO2_MTR_I	GYRO_2_MOTOR_CURRENT	AACS	UNSIGNED	8	82CB	J9	59
A-0004	GYRO2_SP_MTR	GYRO_2_SPIN_MOTOR	AACS	STATUS	1	8104-2	J7	36
A-0162	GYRO3_MTR_I	GYRO_3_MOTOR_CURRENT	AACS	UNSIGNED	8	83C5	J11	53
A-0005	GYRO3_SP_MTR	GYRO_3_SPIN_MOTOR	AACS	STATUS	1	8108-4	J7	104
A-0006	GYRO_OVTMP_A	GYRO_LOOP_OVER_TEMP_A	AACS	STATUS	1	8108-7	J12	72
A-0007	GYRO_OVTMP_B	GYRO_LOOP_OVER_TEMP_B	AACS	STATUS	1	8108-3	J7	72
T-0062	HGA_BM_P_HTR	HGA_BOOM_PRI_HTR_STAT	STR	STATUS	1	810D-3	J7	77
T-0063	HGA_BM_S_HTR	HGA_BOOM_SEC_HTR_STAT	STR	STATUS	1	810D-7	J12	77
T-0240	HGA_CABLE_T	HGA_CABLE_TEMPERATURE	STR	UNSIGNED	8	83DD	J11	77
T-0241	HGA_DAMPER_T	HGA_DAMPER_TEMPERATURE	STR	UNSIGNED	8	825D	J8	62
T-0243	HGA_GIMBL1_T	HGA_GIMBAL1_TEMPERATURE	STR	UNSIGNED	8	82D9	J9	73
T-0244	HGA_GIMBL2_T	HGA_GIMBAL2_TEMPERATURE	STR	UNSIGNED	8	83D5	J11	69
T-0064	HGA_HD_P_HTR	HGAHINGE_DAMP_PRI_HTR_STAT	STR	STATUS	1	810D-6	J12	45
T-0065	HGA_HD_S_HTR	HGAHINGE_DAMP_SEC_HTR_STAT	STR	STATUS	1	810D-2	J7	45

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
S-0110	HGA_POT_A	HGA_POTENTIOMETER_A	STR	UNSIGNED	8	834D	J10	6 1
S-0111	HGA_POT_B	HGA_POTENTIOMETER_B	STR	UNSIGNED	8	82C6	J9	5 4
T-0280	HGA_T	HIGH_GAIN_ANTENNA_TEMPERATURE	THRM	UNSIGNED	8	8252	J8	5 1
A-0136	IMU_+10_DC_V	IMU_+10_VOLTS_DC	AACS	UNSIGNED	8	8241	J8	3 4
A-0137	IMU_+15_DC_V	IMU_+15_VOLTS_DC	AACS	UNSIGNED	8	8290	J9	1 6
A-0138	IMU_-15_DC_V	IMU_-15_VOLTS_DC	AACS	UNSIGNED	8	8310	J10	1 6
A-0008	IMU_ACCEL_TST	IMU_ACCELL_TEST_STATUS	AACS	STATUS	1	8108-6	J12	40
T-0101	IMU_BLOCK_T	IMU_BLOCK_TEMPERATURE	AACS	UNSIGNED	8	829B	J9	27
A-0142	IMU_BU_AC_V	IMU_BU_AC_PWR_SUP_MON	AACS	UNSIGNED	8	83CE	J11	62
A-0144	IMU_BU_DC_V	IMU_BU_DC_PWR_SUP_MON	AACS	UNSIGNED	8	83CC	J11	60
A-0009	IMU_DATA_CHA	IMU_DATA_CHANNEL_A	AACS	STATUS	1	8104-5	J12	4
A-0010	IMU_DATA_CHB	IMU_DATA_CHANNEL_B	AACS	STATUS	1	8104-1	J7	4
A-0020	IMU_HI_CMDP1	IMU_HI_CMD_PATH_1_TLM	AACS	STATUS	1	8116-8	J12	118
A-0022	IMU_HI_CMDP2	IMU_HI_CMD_PATH_2_TLM	AACS	STATUS	1	8116-4	J7	118
A-0011	IMU_HI_LO_ST	IMU_GYRO_RATE_MODE_STATUS	AACS	STATUS	1	8104-6	J12	36
T-0102	IMU_HSE_T	IMU_HOUSING_TEMPERATURE	AACS	UNSIGNED	8	83D8	J11	72
A-0021	IMU_LO_CMDP1	IMU_LO_CMD_PATH_1_TLM	AACS	STATUS	1	8116-7	J12	86
A-0023	IMU_LO_CMDP2	IMU_LO_CMD_PATH_2_TLM	AACS	STATUS	1	8116-3	J7	86
A-0141	IMU_PR_AC_V	IMU_PRI_AC_PWR_SUP_MON	AACS	UNSIGNED	8	8245	J8	38
A-0143	IMU_PR_DC_V	IMU_PRI_DC_PWR_SUP_MON	AACS	UNSIGNED	8	8345	J10	53
A-0140	IMU_TCA_BU_V	IMU_TCA_BU_VOLTGE	AACS	UNSIGNED	8	8341	J10	49
A-0139	IMU_TCA_PR_V	IMU_TCA_PRI_VOLTGE	AACS	UNSIGNED	8	8390	J11	16
A-0012	IMU_TCA_STAT	IMU_TCA_STATUS	AACS	STATUS	1	8108-2	J7	40
A-0130	IMU_XA-Z2_TQ	IMU_XA-Z2_TORQUER_I	AACS	UNSIGNED	8	82CC	J9	60
A-0131	IMU_XB-Z3_TQ	IMU_XB-Z3_TORQUER_I	AACS	UNSIGNED	8	83C2	J11	50
A-0132	IMU_YA-X1_TQ	IMU_YA-X1_TORQUER_I	AACS	UNSIGNED	8	83C4	J11	52
A-0133	IMU_YB-X3_TQ	IMU_YB-X3_TORQUER_I	AACS	UNSIGNED	8	8297	J9	23
A-0134	IMU_ZA+Y1_TQ	IMU_ZA+Y1_TORQUER_I	AACS	UNSIGNED	8	8348	J10	56
A-0135	IMU_ZB+Y2_TQ	IMU_ZB+Y2_TORQUER_I	AACS	UNSIGNED	8	83CA	J11	58
L-0091	KaBLE_ENABLE	KABLE_ENABLE_TLM	TLCM	STATUS	1	8103-6	J12	35
L-0090	KaBLE_STAT	KaBLE_STATUS	TLCM	STATUS	1	8102-7	J12	66
T-0316	KA_AMP_T	KA_AMP_TEMPERATURE	TLCM	UNSIGNED	8	8356	J10	70
T-0030	LINEhyzP_ENA	PROP_LINE_N2H4_PRI_ENAB_STATUS	PROP	STATUS	1	810D-5	J12	13
T-0032	LINEhyzP_HTR	PROP_LINE_N2H4_PRI_HTR_STAT	PROP	STATUS	1	8105-1	J7	5
T-0031	LINEhyzS_ENA	PROP_LINE_N2H4_SEC_ENAB_STATUS	PROP	STATUS	1	810D-1	J7	13
T-0033	LINEhyzS_HTR	PROP_LINE_N2H4_SEC_HTR_STAT	PROP	STATUS	1	8105-5	J12	5
T-0036	LINEtoP_HTR	PROP_LINE_NTO_PRI_HTR_STAT	PROP	STATUS	1	8105-2	J7	37
T-0037	LINEtoS_HTR	PROP_LINE_NTO_SEC_HTR_STAT	PROP	STATUS	1	8105-6	J12	37
P-0102	LINE_PRS	LINE_PRESSURE	PROP	UNSIGNED	8	83A5	J11	37
P-0001	LT_V1_ENA	LATCH_VALVE1_ENAB_STATUS	PROP	STATUS	1	810F-2	J7	47
P-0002	LT_V1_P_POS	LATCH_VALVE1_PRI_POSITION	PROP	STATUS	1	811B-8	J12	123
P-0003	LT_V1_S_POS	LATCH_VALVE1_SEC_POSITION	PROP	STATUS	1	8110-1	J7	16

EDF TELEMETRY INDEX (By Mnemonic)								
Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
P-0004	LT_V2_ENA	LATCH_VALVE2_ENAB_STATUS	PROP	STATUS	1	810F-5	J12	15
P-0005	LT_V2_P_POS	LATCH_VALVE2_PRI_POSITION	PROP	STATUS	1	811B-6	J12	59
P-0006	LT_V2_S_POS	LATCH_VALVE2_SEC_POSITION	PROP	STATUS	1	8109-8	J12	105
P-0007	LT_V3_ENA	LATCH_VALVE3_ENAB_STATUS	PROP	STATUS	1	810F-1	J7	15
P-0008	LT_V3_P_POS	LATCH_VALVE3_PRI_POSITION	PROP	STATUS	1	811B-2	J7	59
P-0009	LT_V3_S_POS	LATCH_VALVE3_SEC_POSITION	PROP	STATUS	1	8110-5	J12	16
P-0010	LT_V4_ARM	LATCH_VALVE4_ARM_STATUS	PROP	STATUS	1	8109-3	J7	73
P-0011	LT_V4_ENA	LATCH_VALVE4_ENAB_STATUS	PROP	STATUS	1	8109-7	J12	73
P-0012	LT_V4_P_POS	LATCH_VALVE4_PRI_POSITION	PROP	STATUS	1	8103-4	J7	99
P-0013	LT_V4_S_POS	LATCH_VALVE4_SEC_POSITION	PROP	STATUS	1	8110-2	J7	48
P-0014	LT_V5_ARM	LATCH_VALVE5_ARM_STATUS	PROP	STATUS	1	8107-2	J7	39
P-0015	LT_V5_ENA	LATCH_VALVE5_ENAB_STATUS	PROP	STATUS	1	8107-6	J12	39
P-0016	LT_V5_P_POS	LATCH_VALVE5_PRI_POSITION	PROP	STATUS	1	8102-1	J7	2
P-0017	LT_V5_S_POS	LATCH_VALVE5_SEC_POSITION	PROP	STATUS	1	8110-6	J12	48
T-0284	LV_CVR_TWT_T	LOUVER_COVER_TWTA_TEMPERATURE	THRM	UNSIGNED	8	82ED	J9	93
T-0223	MAG_+Y_T	MAG_+Y_TEMPERATURE	PYLD	UNSIGNED	8	8293	J9	19
T-0224	MAG_-Y_T	MAG_-Y_TEMPERATURE	PYLD	UNSIGNED	8	8313	J10	19
I-0003	MAG_A_PWR	MAG_A_POWER_STATUS	PYLD	STATUS	1	8101-8	J12	97
I-0004	MAG_B_PWR	MAG_B_POWER_STATUS	PYLD	STATUS	1	8101-4	J7	97
T-0222	MAG_ELC_T	MAG_ELECTRONICS_TEMPERATURE	PYLD	UNSIGNED	8	827D	J8	94
T-0051	MAG_SENS_HTR	MAG_SENSR_HTR_PWR	PYLD	STATUS	1	811C-5	J12	28
P-0065	MAPpyroA_ARM	MAPPING_PYRO_A_ARM_STAT	PROP	STATUS	1	8110-4	J7	112
P-0064	MAPpyroA_ENA	MAPPING_PYRO_A_ENAB_STAT	PROP	UNSIGNED	8	82AA	J9	42
P-0067	MAPpyroB_ARM	MAPPING_PYRO_B_ARM_STAT	PROP	STATUS	1	8109-6	J12	41
P-0066	MAPpyroB_ENA	MAPPING_PYRO_B_ENAB_STAT	PROP	UNSIGNED	8	8347	J10	55
T-0184	MEV1_LINE_T	MAIN_ENGINE_VALVE1_LINE_TEMP	PROP	UNSIGNED	8	83DF	J11	79
T-0185	MEV2_LINE_T	MAIN_ENGINE_VALVE2_LINE_TEMP	PROP	UNSIGNED	8	83E6	J11	86
T-0161	ME_FLANGE_T1	MAIN_ENGINE_FLANGE_TEMP_1	PROP	UNSIGNED	8	82EB	J9	91
T-0162	ME_FLANGE_T2	MAIN_ENGINE_FLANGE_TEMP_2	PROP	UNSIGNED	8	826E	J8	79
P-0024	ME_FLNG_A_EN	MAIN_ENGINE_FLANGE_HTR_A_ENAB	PROP	STATUS	1	8109-4	J7	105
P-0025	ME_FLNG_A_ON	MAIN_ENGINE_FLANGE_HTR_A_ON	PROP	STATUS	1	810E-3	J7	78
P-0026	ME_FLNG_B_EN	MAIN_ENGINE_FLANGE_HTR_B_ENAB	PROP	STATUS	1	8111-1	J7	17
P-0027	ME_FLNG_B_ON	MAIN_ENGINE_FLANGE_HTR_B_ON	PROP	STATUS	1	810E-7	J12	78
T-0022	ME_P_HTR	MAIN_ENGINE_PRI_HEATER_STATUS	PROP	STATUS	1	810E-8	J12	110
P-0020	ME_SD_A_ARM	MAIN_ENGINE_SIDE_A_ARM_STATUS	PROP	STATUS	1	811D-8	J12	125
P-0021	ME_SD_A_ENA	MAIN_ENGINE_SIDE_A_ENAB_STATUS	PROP	STATUS	1	811D-2	J7	61
P-0022	ME_SD_B_ARM	MAIN_ENGINE_SIDE_B_ARM_STATUS	PROP	STATUS	1	810F-4	J7	111
P-0023	ME_SD_B_ENA	MAIN_ENGINE_SIDE_B_ENAB_STATUS	PROP	STATUS	1	810F-8	J12	111
T-0023	ME_S_HTR	MAIN_ENGINE_SEC_HEATER_STATUS	PROP	STATUS	1	810E-4	J7	110
T-0159	ME_VALVE_T1	MAIN_ENGINE_VALVE_TEMP_1	PROP	UNSIGNED	8	8279	J8	90
A-0013	MHSA1_PWR	MHSA_1_POWER_STATUS	AACS	STATUS	1	8108-5	J12	8
A-0014	MHSA2_PWR	MHSA_1_POWER_STATUS	AACS	STATUS	1	8108-1	J7	8

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
A-0110	MHSA_DET1_V	MHSA_SIDE_1_DETECT	AACS	UNSIGNED	8	824F	J8	48
A-0111	MHSA_DET2_V	MHSA_SIDE_2_DETECT	AACS	UNSIGNED	8	83A8	J11	40
T-0105	MHSA_HSE_T	MHSA_HOUSING_TEMPERATURE	AACS	UNSIGNED	8	8250	J8	49
T-0003	MHSA_P_HTR	MHSA_PRI_HEATER_STATUS	AACS	STATUS	1	8105-3	J7	69
T-0103	MHSA_S1_T	MHSA1_TEMPERATURE	AACS	UNSIGNED	8	8288	J9	8
T-0104	MHSA_S2_T	MHSA2_TEMPERATURE	AACS	UNSIGNED	8	839F	J11	31
T-0004	MHSA_S_HTR	MHSA_SEC_HEATER_STATUS	AACS	STATUS	1	8105-7	J12	69
A-0112	MHSA_VOI1_V	MHSA_VORS_INT_I-1	AACS	UNSIGNED	8	82AD	J9	45
A-0113	MHSA_VOI2_V	MHSA_VORS_INT_I-2	AACS	UNSIGNED	8	834A	J10	58
A-0114	MHSA_VOII1_V	MHSA_VORS_INT_II-1	AACS	UNSIGNED	8	82C8	J9	56
A-0115	MHSA_VOII2_V	MHSA_VORS_INT_II-2	AACS	UNSIGNED	8	83CB	J11	59
P-0069	MIDpyroA_ARM	MID_PYRO_A_ARM_STAT	PROP	STATUS	1	8109-1	J7	9
P-0068	MIDpyroA_ENA	MID_PYRO_A_ENAB_STAT	PROP	STATUS	1	8109-5	J12	9
P-0071	MIDpyroB_ARM	MID_PYRO_B_ARM_STAT	PROP	STATUS	1	8110-7	J12	80
P-0070	MIDpyroB_ENA	MID_PYRO_B_ENAB_STAT	PROP	STATUS	1	8110-3	J7	80
I-0010	MOC_A_PWR	MOC_A_POWER	PYLD	STATUS	1	8101-6	J12	33
T-0052	MOC_BKOT_SW1	MOC_BAKE_HTR_SWCH1	PYLD	STATUS	1	811C-8	J12	124
T-0053	MOC_BKOT_SW2	MOC_BAKE_HTR_SWCH2	PYLD	STATUS	1	811C-4	J7	124
I-0011	MOC_B_PWR	MOC_B_POWER	PYLD	STATUS	1	8101-2	J7	33
T-0227	MOC_ELEC_T	MOC_ELECTRONICS_TEMPERATURE	PYLD	UNSIGNED	8	83DC	J11	76
T-0228	MOC_LWR_SM_T	MOC_LOWER_SM_TEMPERATURE	PYLD	UNSIGNED	8	82DC	J9	76
T-0229	MOC_NAfp_T	MOC_NAfp_TEMPERATURE	PYLD	UNSIGNED	8	8255	J8	54
T-0054	MOC_P_HTR	MOC_PRI_HEATER_STATUS	PYLD	STATUS	1	811C-7	J12	92
T-0055	MOC_S_HTR	MOC_SEC_HEATER_STATUS	PYLD	STATUS	1	811C-3	J7	92
T-0230	MOC_UPR_SM_T	MOC_UPPER_SM_TEMPERATURE	PYLD	UNSIGNED	8	83E7	J11	87
T-0231	MOC_WAA_T	MOC_WAA_TEMPERATURE	PYLD	UNSIGNED	8	8251	J8	50
I-0012	MOLA_ARM_ST	MOLA_INSTR_ARM_STATUS	PYLD	STATUS	1	810C-7	J12	76
T-0232	MOLA_ELEC_T	MOLA_ELECTRONICS_BOX_TEMP	PYLD	UNSIGNED	8	8351	J10	65
I-0013	MOLA_ENA_ST	MOLA_INSTR_ENABLE_STATUS	PYLD	STATUS	1	810C-2	J7	44
T-0056	MOLA_HTR	MOLA_HEATER_STATUS	PYLD	STATUS	1	811C-2	J7	60
T-0233	MOLA_LSR_T	MOLA_LASER_BOX_TEMP	PYLD	UNSIGNED	8	82D3	J9	67
I-0014	MOLA_PWR	MOLA_INSTR_PWR_STATUS	PYLD	STATUS	1	8101-5	J12	1
T-0304	MOT1_AUX_T	MOT1_AUX_OSC_TEMPERATURE	TLCM	UNSIGNED	8	83D0	J11	64
L-0031	MOT1_DOR_ON	MOT1_DOR_STATUS	TLCM	STATUS	1	8104-8	J12	100
L-0032	MOT1_EXCITER	MOT1_EXCITER_STATUS	TLCM	STATUS	1	8103-2	J7	35
L-0110	MOT1_EX_RF	MOT1_EXCITER_RF_OUTPUT	TLCM	UNSIGNED	8	8312	J10	18
L-0034	MOT1_RANGING	MOT1_RANGING_STATUS	TLCM	STATUS	1	8106-6	J12	38
L-0035	MOT1_RCVRLCK	MOT1_RECEIVER_LOCK_STATUS	TLCM	STATUS	1	8100-1	J7	128
L-0111	MOT1_RCV_AGC	MOT1_RECEIVER_AGC	TLCM	UNSIGNED	8	8285	J9	5
L-0112	MOT1_RCV_I	MOT1_RECEIVER_CURRENT	TLCM	UNSIGNED	8	83AC	J11	44
L-0113	MOT1_RCV_SPE	MOT1_RECEIVER_SPE	TLCM	UNSIGNED	8	834F	J10	63
L-0114	MOT1 RNG AGC	MOT1_RANGE_AGC	TLCM	UNSIGNED	8	830D	J10	13

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
L-0036	MOT1_TLM_MOD	MOT1_TLM_MODULATION	TLCM	STATUS	1	811F-1	J7	31
L-0033	MOT1_TWNC	MOT1_NOCOHERNT_ENA_STATUS	TLCM	STATUS	1	8106-3	J7	70
L-0037	MOT1_USO_ENA	MOT1_USO_ENABLE_STATUS	TLCM	STATUS	1	8106-1	J7	6
T-0305	MOT1_VCO_T	MOT1_REC_VCO_TEMPERATURE	TLCM	UNSIGNED	8	8368	J10	88
T-0307	MOT2_AUX_T	MOT2_AUX_OSC_TEMPERATURE	TLCM	UNSIGNED	8	82D7	J9	71
L-0041	MOT2_DOR_ON	MOT2_DOR_STATUS	TLCM	STATUS	1	8104-3	J7	68
L-0042	MOT2_EXCITER	MOT2_EXCITER_STATUS	TLCM	STATUS	1	8102-6	J12	34
L-0120	MOT2_EX_RF	MOT2_EXCITER_RF_OUTPUT	TLCM	UNSIGNED	8	838D	J11	13
L-0044	MOT2_RANGING	MOT2_RANGING_STATUS	TLCM	STATUS	1	8106-2	J7	38
L-0045	MOT2_RCVRLCK	MOT2_RECEVER_LOCK_STATUS	TLCM	STATUS	1	8100-5	J12	128
L-0121	MOT2_RCV_AGC	MOT2_RECEIVER_AGC	TLCM	UNSIGNED	8	8305	J10	5
L-0122	MOT2_RCV_I	MOT2_RECEIVER_CURRENT	TLCM	UNSIGNED	8	82CD	J9	61
L-0123	MOT2_RCV_SPE	MOT2_RECEIVER_SPE	TLCM	UNSIGNED	8	828D	J9	13
L-0124	MOT2 RNG_AGC	MOT2_RANGE_AGC	TLCM	UNSIGNED	8	83C9	J11	57
L-0046	MOT2_TLM_MOD	MOT2_TLM_MODULATION	TLCM	STATUS	1	811F-2	J7	63
L-0043	MOT2_TWNC	MOT2_NOCOHERNT_ENA_STATUS	TLCM	STATUS	1	8106-7	J12	70
L-0047	MOT2_USO_ENA	MOT2_USO_ENABLE_STATUS	TLCM	STATUS	1	8106-5	J12	6
T-0308	MOT2_VCO_T	MOT2_REC_VCO_TEMPERATURE	TLCM	UNSIGNED	8	825C	J8	61
C-0020	MOTCROSS	XSU_SERL_MOT_STATE	CDH	STATUS	1	8060-1	J5	5
T-0225	MR_ANT_T	MR_ANTENNA_TEMPERATURE	PYLD	UNSIGNED	8	8268	J8	73
T-0226	MR_ELEC_T	MR_ELECTRONICS_TEMPERATURE	PYLD	UNSIGNED	8	83DB	J11	75
I-0005	MR_TRANS_EN	MBR_XPONDER_ENABLE_STATUS	PYLD	STATUS	1	8101-7	J12	65
I-0006	MR_TRANS_ST	MBR_XPONDER_POWER_STATUS	PYLD	STATUS	1	8101-3	J7	65
C-0013	M_PHASE_R1S1	MISSION_PH_REL_1_SCP1	CDH	STATUS	1	8100-6	J12	32
C-0014	M_PHASE_R1S2	MISSION_PH_REL_1_SCP2	CDH	STATUS	1	8100-2	J7	32
C-0015	M_PHASE_R2S1	MISSION_PH_REL_2_SCP1	CDH	STATUS	1	8100-8	J12	96
C-0016	M_PHASE_R2S2	MISSION_PH_REL_2_SCP2	CDH	STATUS	1	8100-3	J7	64
C-0017	M_PHASE_R3S1	MISSION_PH_REL_3_SCP1	CDH	STATUS	1	8100-7	J12	64
C-0018	M_PHASE_R3S2	MISSION_PH_REL_3_SCP2	CDH	STATUS	1	8100-4	J7	96
T-0187	N2H4inLINE_T	N2H4_INLET_LINE_TEMP	PROP	UNSIGNED	8	82E0	J9	80
P-0104	N2H4_IN_PRS	N2H4_TANKS_INLET_PRESSURE	PROP	UNSIGNED	8	8324	J10	36
P-0106	N2H4_OUT_PRS	N2H4_TANKS_OUTLET_PRESSURE	PROP	UNSIGNED	8	839C	J11	28
T-0180	N2H4_TNK1_T1	N2H4_TANK1_TEMPERATURE_1	PROP	UNSIGNED	8	83EC	J11	92
T-0181	N2H4_TNK1_T2	N2H4_TANK1_TEMPERATURE_2	PROP	UNSIGNED	8	82E4	J9	84
T-0182	N2H4_TNK2_T1	N2H4_TANK2_TEMPERATURE_1	PROP	UNSIGNED	8	827A	J8	91
T-0183	N2H4_TNK2_T2	N2H4_TANK2_TEMPERATURE_2	PROP	UNSIGNED	8	8354	J10	68
T-0285	NADIR_PNL_T1	NADIR_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	8353	J10	67
T-0286	NADIR_PNL_T2	NADIR_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	82EA	J9	90
T-0186	NT0inLINE_T	NT0_INLET_LINE_TEMP	PROP	UNSIGNED	8	82E3	J9	83
P-0103	NT0_IN_PRS	NT0_TANK_INLET_PRESSURE	PROP	UNSIGNED	8	832C	J10	44
P-0105	NT0_OUT_PRS	NT0_TANK_OUTLET_PRESSURE	PROP	UNSIGNED	8	82A4	J9	36
T-0178	NT0_TANK_T1	NT0_TANK_TEMPERATURE_1	PROP	UNSIGNED	8	835B	J10	75

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Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
T-0179	NTO_TANK_T2	NTO_TANK_TEMPERATURE_2	PROP	UNSIGNED	8	8271	J8	82
T-0189	PCAhplLINE_T	PCA_HIGH_PRES_LINE_TEMP	PROP	UNSIGNED	8	8259	J8	58
T-0188	PCAlpLINE_T	PCA_LOW_PRES_LINE_TEMP	PROP	UNSIGNED	8	83DE	J11	78
C-0125	PDS_A_+5_V	PDS_SIDE_A_+5V_OUT	CDH	UNSIGNED	8	824E	J8	47
C-0022	PDS_A_OK	PDS_SUBSYSTEM_A_OK	CDH	STATUS	1	8103-1	J7	3
C-0024	PDS_A_PWR	PDS_POWER_A_STATUS	CDH	STATUS	1	810C-8	J12	108
T-0120	PDS_BOX_T	PDS_TEMPERATURE	CDH	UNSIGNED	8	8256	J8	55
C-0126	PDS_B_+5_V	PDS_SIDE_B_+5V_OUT	CDH	UNSIGNED	8	828A	J9	10
C-0023	PDS_B_OK	PDS_SUBSYSTEM_B_OK	CDH	STATUS	1	8103-5	J12	3
C-0025	PDS_B_PWR	PDS_POWER_B_STATUS	CDH	STATUS	1	810C-1	J7	12
T-0164	PRES_CNTL1_T	PRESSURANT_CNTL1_TEMPERATURE	PROP	UNSIGNED	8	836F	J10	95
T-0165	PRES_CNTL2_T	PRESSURANT_CNTL2_TEMPERATURE	PROP	UNSIGNED	8	83E2	J11	82
T-0010	PRS_VC1P_HTR	PRESSURANT_VCL1_PRI_HTR_STATUS	PROP	STATUS	1	8114-8	J12	116
T-0011	PRS_VC1S_HTR	PRESSURANT_VCL1_SEC_HTR_STATUS	PROP	STATUS	1	8114-4	J7	116
T-0012	PRS_VC2P_HTR	PRESSURANT_VCL2_PRI_HTR_STATUS	PROP	STATUS	1	8114-3	J7	84
T-0013	PRS_VC2S_HTR	PRESSURANT_VCL2_SEC_HTR_STATUS	PROP	STATUS	1	8114-7	J12	84
T-0207	PSA_T1	PSA_TEMPERATURE_1	PWR	UNSIGNED	8	8358	J10	72
T-0208	PSA_T2	PSA_TEMPERATURE_2	PWR	UNSIGNED	8	83E8	J11	88
E-0141	PSE+28_BUS_I	PSE_+28V_REG_BUS_CURRENT	PWR	UNSIGNED	8	828B	J9	11
E-0140	PSE+28_BUS_V	PSE_+28V_REG_BUS_VOLTAGE	PWR	UNSIGNED	8	8383	J11	3
E-0020	PSE_BOOST_REG	PSE_BOOST_V_REG_STATUS	PWR	STATUS	1	8117-6	J12	55
E-0143	PSE_BVR_CHAN	PSE_BVR_STATUS	PWR	UNSIGNED	8	8346	J10	54
E-0021	PSE_CMD_SIDE	PSE_INTERFACE_SELECT	PWR	STATUS	1	811B-4	J7	123
T-0209	PSE_HSNK_T	PSE_HEAT_SINK_TEMPERATURE	PWR	UNSIGNED	8	838B	J11	11
E-0022	PSE_MODE_CRL	PSE_MODE_CNTL_STATUS	PWR	STATUS	1	8117-3	J7	87
E-0142	PSE_PL_BUS_I	PSE_PA_BUS_CURRENT	PWR	UNSIGNED	8	830B	J10	11
T-0016	PTANKS_P_ENA	PROP_TANKS_PRI_HTR_ENAB_STATUS	PROP	STATUS	1	8117-2	J7	55
T-0018	PTANKS_P_HTR	PROP_TANKS_PRI_HEATER_STATUS	PROP	STATUS	1	8107-3	J7	71
T-0017	PTANKS_S_ENA	PROP_TANKS_SEC_HTR_ENAB_STATUS	PROP	STATUS	1	8117-7	J12	87
T-0019	PTANKS_S_HTR	PROP_TANKS_SEC_HEATER_STATUS	PROP	STATUS	1	8107-7	J12	71
P-0072	PTCMpyrA_ENA	PRE_TCM_PYRO_A_ENAB_STAT	PROP	UNSIGNED	8	82CA	J9	58
P-0073	PTCMpyrB_ENA	PRE_TCM_PYRO_B_ENAB_STAT	PROP	UNSIGNED	8	83C6	J11	54
P-0074	PV6pyroA_ARM	PYRO_VALVE_6_A_ARM_STAT	PROP	STATUS	1	8119-1	J7	25
P-0075	PV6pyroB_ARM	PYRO_VALVE_6_B_ARM_STAT	PROP	STATUS	1	810F-7	J12	79
T-0166	PYRO_VGRP1_T	PYRO_VALVE_GROUP1_TEMPERATURE	PROP	UNSIGNED	8	836B	J10	91
T-0167	PYRO_VGRP2_T	PYRO_VALVE_GROUP2_TEMPERATURE	PROP	UNSIGNED	8	83E3	J11	83
T-0310	RF_ISOLTR1_T	RF_ISOLATOR_1_TEMPERATURE	TLCM	UNSIGNED	8	83EA	J11	90
T-0311	RF_ISOLTR2_T	RF_ISOLATOR_2_TEMPERATURE	TLCM	UNSIGNED	8	835F	J10	79
L-0058	RF_SW_23_INH	RF_SWITCH_2_3_INHIBIT_STATUS	TLCM	STATUS	1	811D-1	J7	29
L-0050	RF_SW_INPUT	RF_SWITCH_INPUT_STATUS	TLCM	STATUS	1	811F-7	J12	95
L-0052	RF_SW_LGT	RF_SWITCH_LGT_STATUS	TLCM	STATUS	1	811F-3	J7	95
L-0053	RF_SW_OSC	RF_SWITCH_OSC_STATUS	TLCM	STATUS	3	811F-6	J7	127

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
L-0051	RF_SW_OUTPUT	RF_SWITCH_OUTPUT_STATUS	TLCM	STATUS	1	811F-8	J12	127
T-0109	RWA_S_BRG_T	RWA_S_BEARING_TEMPERATURE	AACS	UNSIGNED	8	82AE	J9	46
A-0173	RWA_S_MTR_I	RWA_S_MOTOR_CURRENT	AACS	UNSIGNED	8	8380	J11	128
T-0106	RWA_X_BRG_T	RWA_X_BEARING_TEMPERATURE	AACS	UNSIGNED	8	829F	J9	31
A-0170	RWA_X_MTR_I	RWA_X_MOTOR_CURRENT	AACS	UNSIGNED	8	8240	J8	33
T-0107	RWA_Y_BRG_T	RWA_Y_BEARING_TEMPERATURE	AACS	UNSIGNED	8	8318	J10	24
A-0171	RWA_Y_MTR_I	RWA_Y_MOTOR_CURRENT	AACS	UNSIGNED	8	8280	J9	128
T-0108	RWA_Z_BRG_T	RWA_Z_BEARING_TEMPERATURE	AACS	UNSIGNED	8	83AF	J11	47
A-0172	RWA_Z_MTR_I	RWA_Z_MOTOR_CURRENT	AACS	UNSIGNED	8	8300	J10	128
T-0123	RXO_BOX_T	RXO_BOX_TEMPERATURE	CDH	UNSIGNED	8	8257	J8	56
T-0122	RXO_BU_OVN_T	RXO_BU_OVEN_TEMPERATURE	CDH	UNSIGNED	8	829E	J9	30
C-0029	RXO_MODE_STA	RXO_OSC_MODE_STATS	CDH	STATUS	1	811A-5	J12	26
T-0121	RXO_PR_OVN_T	RXO_PRI_OVEN_TEMPERATURE	CDH	UNSIGNED	8	8316	J10	22
T-0070	SA+YGM_P_HTR	SA+Y_GMBL_PRI_HTR_STAT	STR	STATUS	1	8116-6	J12	54
T-0071	SA+YGM_S_HTR	SA+Y_GMBL_SEC_HTR_STAT	STR	STATUS	1	8116-2	J7	54
S-0100	SA+YinrPOT_A	SA+Y_INNER_POTENTIOMETER_A	STR	UNSIGNED	8	832B	J10	43
S-0101	SA+YinrPOT_B	SA+Y_INNER_POTENTIOMETER_B	STR	UNSIGNED	8	8284	J9	4
S-0102	SA+YoutPOT_A	SA+Y_OUTER_POTENTIOMETER_A	STR	UNSIGNED	8	83AB	J11	43
S-0103	SA+YoutPOT_B	SA+Y_OUTER_POTENTIOMETER_B	STR	UNSIGNED	8	8349	J10	57
P-0076	SA+YpyrA_ARM	SA+Y_PYRO_A_ARM_STAT	PROP	STATUS	1	8119-7	J12	89
P-0077	SA+YpyrB_ARM	SA+Y_PYRO_B_ARM_STAT	PROP	STATUS	1	811D-4	J7	125
T-0252	SA+Y_GMBL1_T	SA+Y_GIMBAL1_TEMPERATURE	STR	UNSIGNED	8	826C	J8	77
T-0253	SA+Y_GMBL2_T	SA+Y_GIMBAL2_TEMPERATURE	STR	UNSIGNED	8	8355	J10	69
E-0131	SA+Y_I	SOLAR_ARRAY+_Y_CURRENT	PWR	UNSIGNED	8	8323	J10	35
T-0211	SA+Y_INR_B_T	SA+Y_INNER_BACK_TEMPERATURE	PWR	UNSIGNED	8	82E7	J9	87
T-0210	SA+Y_INR_F_T	SA+Y_INNER_FRONT_TEMPERATURE	PWR	UNSIGNED	8	8267	J8	72
E-0133	SA+Y_Isc_I	SA+_Y_SHORT_CIRCUIT_CURRENT	PWR	UNSIGNED	8	82A3	J9	35
T-0213	SA+Y_OUT_B_T	SA+Y_OUTER_BACK_TEMPERATURE	PWR	UNSIGNED	8	83ED	J11	93
T-0212	SA+Y_OUT_F_T	SA+Y_OUTER_FRONT_TEMPERATURE	PWR	UNSIGNED	8	8357	J10	71
E-0135	SA+Y_Voc_V	SA+_Y_OPEN_CIRCUIT_VOLTAGE	PWR	UNSIGNED	8	82C1	J9	49
T-0072	SA-YGM_P_HTR	SA-Y_GMBL_PRI_HTR_STAT	STR	STATUS	1	8116-1	J7	22
T-0073	SA-YGM_S_HTR	SA-Y_GMBL_SEC_HTR_STAT	STR	STATUS	1	8116-5	J12	22
S-0104	SA-YinrPOT_A	SA-Y_INNER_POTENTIOMETER_A	STR	UNSIGNED	8	828C	J9	12
S-0105	SA-YinrPOT_B	SA-Y_INNER_POTENTIOMETER_B	STR	UNSIGNED	8	8304	J10	4
S-0106	SA-YoutPOT_A	SA-Y_OUTER_POTENTIOMETER_A	STR	UNSIGNED	8	83AD	J11	45
S-0107	SA-YoutPOT_B	SA-Y_OUTER_POTENTIOMETER_B	STR	UNSIGNED	8	8294	J9	20
P-0078	SA-YpyrA_ARM	SA-Y_PYRO_A_ARM_STAT	PROP	STATUS	1	8119-4	J7	121
P-0079	SA-YpyrB_ARM	SA-Y_PYRO_B_ARM_STAT	PROP	STATUS	1	811D-6	J12	61
T-0254	SA-Y_GMBL1_T	SA-Y_GIMBAL1_TEMPERATURE	STR	UNSIGNED	8	83D3	J11	67
T-0255	SA-Y_GMBL2_T	SA-Y_GIMBAL2_TEMPERATURE	STR	UNSIGNED	8	82DB	J9	75
E-0132	SA-Y_I	SOLAR_ARRAY-_Y_CURRENT	PWR	UNSIGNED	8	839B	J11	27
T-0215	SA-Y_INR_B_T	SA-Y_INNER_BACK_TEMPERATURE	PWR	UNSIGNED	8	82DF	J9	79

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
T-0214	SA-Y_INR_F_T	SA-Y_INNER_FRONT_TEMPERATURE	PWR	UNSIGNED	8	826B	J8	76
E-0134	SA-Y_Isc_I	SA_Y_SHORT_CIRCUIT_CURRENT	PWR	UNSIGNED	8	831B	J10	27
T-0217	SA-Y_OUT_B_T	SA-Y_OUTER_BACK_TEMPERATURE	PWR	UNSIGNED	8	83E4	J11	84
T-0216	SA-Y_OUT_F_T	SA-Y_OUTER_FRONT_TEMPERATURE	PWR	UNSIGNED	8	8359	J10	73
E-0136	SA-Y_Voc_V	SA_Y_OPEN_CIRCUIT_VOLTAGE	PWR	UNSIGNED	8	83CD	J11	61
E-0130	SA_OUTPUT_I	SOLAR_ARRAY_OUTPUT_I	PWR	UNSIGNED	8	82C9	J9	57
E-0137	SA_PAR_SH_V	SA_PARTIAL_SHUNT_VOLTAGE	PWR	UNSIGNED	8	8393	J11	19
C-0131	SCP1_+5_V	SCP1_+5V_PWR_SUPPL	CDH	UNSIGNED	8	8319	J10	25
C-0030	SCP1_ALO_ERR	SCP1_AT_LEAST_1_ERROR	CDH	STATUS	1	811A-7	J12	90
T-0124	SCP1_INTRN_T	SCP1_INTERNAL_TEMPERATURE	CDH	UNSIGNED	8	82DA	J9	74
C-0032	SCP1_NRM_SWP	SCP1_NORMAL_OR_SWAP	CDH	STATUS	1	811A-1	J7	26
C-0132	SCP2_+5_V	SCP2_+5V_PWR_SUPPL	CDH	UNSIGNED	8	83AE	J11	46
C-0031	SCP2_ALO_ERR	SCP2_AT_LEAST_1_ERROR	CDH	STATUS	1	811A-4	J7	122
T-0125	SCP2_INTRN_T	SCP2_INTERNAL_TEMPERATURE	CDH	UNSIGNED	8	83EB	J11	91
C-0033	SCP2_NRM_SWP	SCP2_NORMAL_OR_SWAP	CDH	STATUS	1	811A-2	J7	58
C-0034	SCU1SCP1_ST	SCU1_SELECTED SCP1	CDH	STATUS	1	810A-8	J12	106
C-0035	SCU1SCP2_ST	SCU1_SELECTED SCP2	CDH	STATUS	1	810A-4	J7	106
C-0036	SCU2SCP1_ST	SCU2_SELECTED SCP1	CDH	STATUS	1	810A-5	J12	10
C-0037	SCU2SCP2_ST	SCU2_SELECTED SCP2	CDH	STATUS	1	810A-1	J7	10
A-0150	SPMTR_PH_A_V	SPIN_MTR_A_PHS_TLM	AACS	UNSIGNED	8	8308	J10	8
A-0151	SPMTR_PH_B_V	SPIN_MTR_B_PHS_TLM	AACS	UNSIGNED	8	8388	J11	8
A-0152	SPMTR_PH_C_V	SPIN_MTR_C_PHS_TLM	AACS	UNSIGNED	8	82C0	J9	48
A-0122	SS1_ATA_I	SS1_ATA_CURRENT	AACS	UNSIGNED	8	82C3	J9	51
A-0120	SS1_DC_CNV_V	SS1_ATA_DC-DC_CONV	AACS	UNSIGNED	8	83CF	J11	63
A-0123	SS2_ATA_I	SS2_ATA_CURRENT	AACS	UNSIGNED	8	8398	J11	24
A-0121	SS2_DC_CNV_V	SS2_ATA_DC-DC_CONV	AACS	UNSIGNED	8	8343	J10	51
C-0070	SSR2BmodeABD	SSR_2B_MODE_BITS_A_B_D	CDH	UNSIGNED	4	8111-8	J7	17
C-0069	SSR2BmodeC	SSR_2B_MODE_BIT_C	CDH	UNSIGNED	1	810F-6	J12	47
C-0141	SSR_1A_-5V	SSR_1A_-5_VOLT_PS	CDH	UNSIGNED	8	8320	J10	32
C-0040	SSR_1A_CLOCK	SSR_1A_CLOCK	CDH	STATUS	4	8060-5	J5	5
C-0048	SSR_1A_DENA	SSR_1A_DENA	CDH	STATUS	1	8106-8	J12	102
C-0045	SSR_1A_EOM	SSR_1A_END_OF_MEM	CDH	STATUS	1	8112-7	J12	82
C-0046	SSR_1A_EOP	SSR_1A_END_OF_PART	CDH	STATUS	1	8112-6	J12	50
C-0142	SSR_1A_I	SSR_1A_CURRENT	CDH	UNSIGNED	8	8246	J8	39
C-0041	SSR_1A_MODE	SSR_1A_MODE	CDH	STATUS	4	8060-1	J5	5
C-0042	SSR_1A_PART	SSR_1A_PARTITION	CDH	STATUS	3	8060-6	J5	5
C-0043	SSR_1A_PWR	SSR_1A_POWER	CDH	STATUS	1	810A-7	J12	74
C-0044	SSR_1A_READY	SSR_1A_READY	CDH	STATUS	1	8112-8	J12	114
C-0047	SSR_1A_REOP	SSR_1A_RE_RECORD_EOP	CDH	STATUS	1	8112-5	J12	18
T-0126	SSR_1A_T	SSR_1A_TEMPERATURE	CDH	UNSIGNED	8	838F	J11	15
C-0143	SSR_1B_-5V	SSR_1B_-5_VOLT_PS	CDH	UNSIGNED	8	82A8	J9	40
C-0050	SSR_1B_CLOCK	SSR_1B_CLOCK	CDH	STATUS	4	8060-5	J5	5

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Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
C-0058	SSR_1B_DENA	SSR_1B_DENA	CDH	STATUS	1	811A-3	J7	90
C-0055	SSR_1B_EOM	SSR_1B_END_OF_MEM	CDH	STATUS	1	8113-7	J12	83
C-0056	SSR_1B_EOP	SSR_1B_END_OF_PART	CDH	STATUS	1	8113-6	J12	51
C-0144	SSR_1B_I	SSR_1B_CURRENT	CDH	UNSIGNED	8	83A0	J11	32
C-0051	SSR_1B_MODE	SSR_1B_MODE	CDH	STATUS	4	8060-1	J5	5
C-0052	SSR_1B_PART	SSR_1B_PARTITION	CDH	STATUS	3	8060-6	J5	5
C-0053	SSR_1B_PWR	SSR_1B_POWER	CDH	STATUS	1	810A-3	J7	74
C-0054	SSR_1B_READY	SSR_1B_READY	CDH	STATUS	1	8113-8	J12	115
C-0057	SSR_1B_REOP	SSR_1B_RE_RECORD_EOP	CDH	STATUS	1	8113-5	J12	19
T-0127	SSR_1B_T	SSR_1B_TEMPERATURE	CDH	UNSIGNED	8	824A	J8	43
C-0145	SSR_2A_-5V	SSR_2A_-5_VOLT_PS	CDH	UNSIGNED	8	8299	J9	25
C-0060	SSR_2A_CLOCK	SSR_2A_CLOCK	CDH	STATUS	4	8060-5	J5	5
C-0068	SSR_2A_DENA	SSR_2A_DENA	CDH	STATUS	1	8102-5	J12	2
C-0065	SSR_2A_EOM	SSR_2A_END_OF_MEM	CDH	STATUS	1	8112-3	J7	82
C-0066	SSR_2A_EOP	SSR_2A_END_OF_PART	CDH	STATUS	1	8112-2	J7	50
C-0146	SSR_2A_I	SSR_2A_CURRENT	CDH	UNSIGNED	8	82C2	J9	50
C-0061	SSR_2A_MODE	SSR_2A_MODE	CDH	STATUS	4	8060-1	J5	5
C-0062	SSR_2A_PART	SSR_2A_PARTITION	CDH	STATUS	3	8060-6	J5	5
C-0063	SSR_2A_PWR	SSR_2A_POWER	CDH	STATUS	1	810A-6	J12	42
C-0064	SSR_2A_READY	SSR_2A_READY	CDH	STATUS	1	8112-4	J7	114
C-0067	SSR_2A_REOP	SSR_2A_RE_RECORD_EOP	CDH	STATUS	1	8112-1	J7	18
T-0128	SSR_2A_T	SSR_2A_TEMPERATURE	CDH	UNSIGNED	8	8326	J10	38
C-0147	SSR_2B_-5V	SSR_2B_-5_VOLT_PS	CDH	UNSIGNED	8	834B	J10	59
C-0078	SSR_2B_DENA	SSR_2B_DENA	CDH	STATUS	1	8117-5	J12	23
C-0075	SSR_2B_EOM	SSR_2B_END_OF_MEM	CDH	STATUS	1	8113-3	J7	83
C-0076	SSR_2B_EOP	SSR_2B_END_OF_PART	CDH	STATUS	1	8113-2	J7	51
C-0148	SSR_2B_I	SSR_2B_CURRENT	CDH	UNSIGNED	8	8340	J10	48
C-0072	SSR_2B_PART	SSR_2B_PARTITION	CDH	STATUS	3	8111-4	J7	49
C-0073	SSR_2B_PWR	SSR_2B_POWER	CDH	STATUS	1	810A-2	J7	42
C-0074	SSR_2B_READY	SSR_2B_READY	CDH	STATUS	1	8113-4	J7	115
C-0077	SSR_2B_REOP	SSR_2B_RE_RECORD_EOP	CDH	STATUS	1	8113-1	J7	19
T-0129	SSR_2B_T	SSR_2B_TEMPERATURE	CDH	UNSIGNED	8	8281	J9	1
T-0168	SUP_V_CLS1_T	SUPPLY_VALVE_CLUSTER1_TEMP	PROP	UNSIGNED	8	82D0	J9	64
T-0169	SUP_V_CLS2_T	SUPPLY_VALVE_CLUSTER2_TEMP	PROP	UNSIGNED	8	835D	J10	77
T-0170	SUP_V_CLS3_T	SUPPLY_VALVE_CLUSTER3_TEMP	PROP	UNSIGNED	8	83EE	J11	94
T-0171	SUP_V_CLS4_T	SUPPLY_VALVE_CLUSTER4_TEMP	PROP	UNSIGNED	8	8263	J8	68
T-0014	SvLvCL_P_HTR	SUPPLY_VCL_PRI_HEATER_STATUS	PROP	STATUS	1	8107-8	J12	103
T-0015	SvLvCL_S_HTR	SUPPLY_VCL_SEC_HEATER_STATUS	PROP	STATUS	1	8107-4	J7	103
T-0235	TES_ELEC_T	TES ELECTRONICS TEMPERATURE	PYLD	UNSIGNED	8	827C	J8	93
T-0057	TES_HTR	TES HEATER_ON/OFF	PYLD	STATUS	1	811C-1	J7	28
T-0234	TES_OPTICS_T	TES OPTICS TEMPERATURE	PYLD	UNSIGNED	8	83D4	J11	68
I-0015	TES_PWR	TES INSTR_PWR STATUS	PYLD	STATUS	1	8101-1	J7	1

EDF TELEMETRY INDEX (By Mnemonic)								
Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
P-0048	THRevnHI_ARM	THRUSTERS_8_10_11_ARM_STATUS	PROP	STATUS	1	810E-2	J7	46
T-0192	THRevnLINE_T	THRUSTERS_EVEN_LINE_TEMP	PROP	UNSIGNED	8	8260	J8	65
P-0047	THRevnLO_ARM	THRUSTERS_2_4_6_ARM_STATUS	PROP	STATUS	1	810F-3	J7	79
P-0046	THRoddHI_ARM	THRUSTERS_7_9_12_ARM_STATUS	PROP	STATUS	1	810E-6	J12	46
T-0191	THRoddLINE_T	THRUSTERS_ODD_LINE_TEMP	PROP	UNSIGNED	8	8273	J8	84
P-0045	THRoddLO_ARM	THRUSTERS_1_3_5_ARM_STATUS	PROP	STATUS	1	811D-7	J12	93
T-0143	THR_01_CB_T	THRUSTER_01_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8200	J8	1
T-0131	THR_01_VLV_T	THRUSTER_01_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8361	J10	81
T-0144	THR_02_CB_T	THRUSTER_02_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8209	J8	10
T-0132	THR_02_VLV_T	THRUSTER_02_VALVE_TEMPERATURE	PROP	UNSIGNED	8	82DD	J9	77
T-0145	THR_03_CB_T	THRUSTER_03_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8212	J8	19
T-0133	THR_03_VLV_T	THRUSTER_03_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8264	J8	69
T-0146	THR_04_CB_T	THRUSTER_04_CATBED_TEMPERATURE	PROP	UNSIGNED	8	821B	J8	28
T-0134	THR_04_VLV_T	THRUSTER_04_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8369	J10	89
T-0147	THR_05_CB_T	THRUSTER_05_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8201	J8	2
T-0135	THR_05_VLV_T	THRUSTER_05_VALVE_TEMPERATURE	PROP	UNSIGNED	8	82E5	J9	85
T-0148	THR_06_CB_T	THRUSTER_06_CATBED_TEMPERATURE	PROP	UNSIGNED	8	820A	J8	11
T-0136	THR_06_VLV_T	THRUSTER_06_VALVE_TEMPERATURE	PROP	UNSIGNED	8	825B	J8	60
T-0149	THR_07_CB_T	THRUSTER_07_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8213	J8	20
T-0137	THR_07_VLV_T	THRUSTER_07_VALVE_TEMPERATURE	PROP	UNSIGNED	8	836D	J10	93
T-0150	THR_08_CB_T	THRUSTER_08_CATBED_TEMPERATURE	PROP	UNSIGNED	8	821C	J8	29
T-0138	THR_08_VLV_T	THRUSTER_08_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8253	J8	52
T-0151	THR_09_CB_T	THRUSTER_09_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8202	J8	3
T-0139	THR_09_VLV_T	THRUSTER_09_VALVE_TEMPERATURE	PROP	UNSIGNED	8	82E9	J9	89
T-0152	THR_10_CB_T	THRUSTER_10_CATBED_TEMPERATURE	PROP	UNSIGNED	8	820B	J8	12
T-0140	THR_10_VLV_T	THRUSTER_10_VALVE_TEMPERATURE	PROP	UNSIGNED	8	82D1	J9	65
T-0153	THR_11_CB_T	THRUSTER_11_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8214	J8	21
T-0141	THR_11_VLV_T	THRUSTER_11_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8261	J8	66
T-0154	THR_12_CB_T	THRUSTER_12_CATBED_TEMPERATURE	PROP	UNSIGNED	8	821D	J8	30
T-0142	THR_12_VLV_T	THRUSTER_12_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8352	J10	66
P-0043	THR_CBevenSE	EVEN_SEC_CB_HTR_TLM	PROP	STATUS	1	8110-8	J12	112
P-0044	THR_CBoddSE	ODD_SEC_CB_HTR_TLM	PROP	STATUS	1	8102-3	J7	66
P-0031	THR_CB_01_EN	THRUSTER_01_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-8	J12	120
P-0032	THR_CB_02_EN	THRUSTER_02_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-7	J12	88
P-0033	THR_CB_03_EN	THRUSTER_03_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-6	J12	56
P-0034	THR_CB_04_EN	THRUSTER_04_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-5	J12	24
P-0035	THR_CB_05_EN	THRUSTER_05_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-4	J7	120
P-0036	THR_CB_06_EN	THRUSTER_06_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-3	J7	88
P-0037	THR_CB_07_EN	THRUSTER_07_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-2	J7	56
P-0038	THR_CB_08_EN	THRUSTER_08_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-1	J7	24
P-0039	THR_CB_09_EN	THRUSTER_09_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8114-6	J12	52
P-0040	THR_CB_10_EN	THRUSTER_10_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8114-5	J12	20

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
P-0041	THR_CB_11_EN	THRUSTER_11_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8114-2	J7	52
P-0042	THR_CB_12_EN	THRUSTER_12_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8114-1	J7	20
T-0155	THR_CLUS_1_T	THRUSTER_CLUSTER_1_TEMPERATURE	PROP	UNSIGNED	8	8277	J8	88
T-0156	THR_CLUS_2_T	THRUSTER_CLUSTER_2_TEMPERATURE	PROP	UNSIGNED	8	82D4	J9	68
T-0157	THR_CLUS_3_T	THRUSTER_CLUSTER_3_TEMPERATURE	PROP	UNSIGNED	8	835C	J10	76
T-0158	THR_CLUS_4_T	THRUSTER_CLUSTER_4_TEMPERATURE	PROP	UNSIGNED	8	83E0	J11	80
T-0020	THR_P_HTR	THRUSTER_ENCLOSURE_PRI_HTR_STAT	PROP	STATUS	1	8107-1	J7	7
T-0021	THR_S_HTR	THRUSTER_ENCLOSURE_SEC_HTR_STAT	PROP	STATUS	1	8107-5	J12	7
T-0312	TWT1_T	TWT1_TEMPERATURE	TLCM	UNSIGNED	8	82EF	J9	95
T-0313	TWT2_T	TWT2_TEMPERATURE	TLCM	UNSIGNED	8	8275	J8	86
L-0132	TWTA1_ANOD_V	TWTA1_ANODE_VOLTAGE	TLCM	UNSIGNED	8	82CE	J9	62
L-0060	TWTA1_FILMNT	TWTA1_FILAMENT_STATUS	TLCM	STATUS	1	8102-4	J7	98
L-0131	TWTA1_HLX_I	TWTA1_HELIX_CURRENT	TLCM	UNSIGNED	8	83C3	J11	51
L-0061	TWTA1_HV	TWTA1_HIGH_VOLTAGE_STATUS	TLCM	STATUS	1	8103-7	J12	67
L-0142	TWTA2_ANOD_V	TWTA2_ANODE_VOLTAGE	TLCM	UNSIGNED	8	839D	J11	29
L-0070	TWTA2_FILMNT	TWTA2_FILAMENT_STATUS	TLCM	STATUS	1	8103-3	J7	67
L-0141	TWTA2_HLX_I	TWTA2_HELIX_CURRENT	TLCM	UNSIGNED	8	82A9	J9	41
L-0071	TWTA2_HV	TWTA2_HIGH_VOLTAGE_STATUS	TLCM	STATUS	1	8102-2	J7	34
T-0314	TWTA_ENCL_T	TWTA_ENCLOSURE_TEMPERATURE	TLCM	UNSIGNED	8	8365	J10	85
T-0088	TWTGIM_P_HTR	TWTA_ENCL_GMBL_PRI_HTR_STAT	THRM	STATUS	1	810D-8	J12	109
T-0089	TWTGIM_S_HTR	TWTA_ENCL_GMBL_SEC_HTR_STAT	THRM	STATUS	1	810D-4	J7	109
L-0201	USO_OVEN_V	USO_OVEN_HEATER_VOLTAGE	TLCM	UNSIGNED	8	8325	J10	37
L-0080	USO_PWR	USO_POWER_STATUS	TLCM	STATUS	1	8106-4	J7	102
L-0200	USO_REG_V	USO_REGULATOR_VOLTAGE	TLCM	UNSIGNED	8	82A5	J9	37
T-0315	USO_T	USO_TEMPERATURE	TLCM	UNSIGNED	8	8262	J8	67
T-0172	VALV_GRP1_T	VALVE_GROUP1_TEMPERATURE	PROP	UNSIGNED	8	83D2	J11	66
T-0173	VALV_GRP2_T	VALVE_GROUP2_TEMPERATURE	PROP	UNSIGNED	8	836C	J10	92
T-0174	VALV_GRP3_T	VALVE_GROUP3_TEMPERATURE	PROP	UNSIGNED	8	82EE	J9	94
T-0175	VALV_GRP4_T	VALVE_GROUP4_TEMPERATURE	PROP	UNSIGNED	8	8278	J8	89
C-0151	XSU1_CNV_V	XSU_CONVSTAT_SIDE1	CDH	UNSIGNED	8	83A1	J11	33
C-0085	XSU1_PGC	XSU_SERL_AMPL_MOT1	CDH	STATUS	4	8060-1	J5	5
C-0087	XSU1_SRC	XSU_STREAM_SELCT_1	CDH	STATUS	4	8060-5	J5	5
C-0152	XSU2_CNV_V	XSU_CONVSTAT_SIDE2	CDH	UNSIGNED	8	834E	J10	62
C-0086	XSU2_PGC	XSU_SERL_AMPL_MOT2	CDH	STATUS	4	8060-1	J5	5
C-0088	XSU2_SRC	XSU_STREAM_SELCT_2	CDH	STATUS	4	8060-5	J5	5
C-0080	XSUSIDE1	XSU_SERL_TLM_SIDE1	CDH	STATUS	1	8060-1	J5	5
C-0081	XSUSIDE2	XSU_SERL_TLM_SIDE2	CDH	STATUS	1	8060-1	J5	5
T-0130	XSU_INTRN_T	XSU_INTERNAL_TEMPERATURE	CDH	UNSIGNED	8	83D9	J11	73
C-0082	XSU_W2_SPARE	XSU_WRD2_SPARES	CDH	STATUS	4	8060-2	J5	5
C-0083	XSU_W4_SPARE	XSU_WRD4_SPARES	CDH	STATUS	4	8060-2	J5	5
C-0084	XSU_W6_SPARE	XSU_WRD6_SPARES	CDH	STATUS	4	8060-2	J5	5

Appendix A3

EDF Telemetry Index (By MUX Address)

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Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
L-0002	CDU1_STA_DAT	CDU1_SERIAL_DATA	TLCM	DIGITAL	8	8010	J6	29
L-0010	CDU1_SPARES	CDU1_DATA_SPARES	TLCM	STATUS	3	8010-1	J6	29
L-0014	CDU1_SEU	CDU1_SINGLE_EVENT_UPSET	TLCM	STATUS	1	8010-4	J6	29
L-0013	CDU1_LOCK	CDU1_DATA_LOCK_STATUS	TLCM	STATUS	1	8010-5	J6	29
L-0012	CDU1_BITRATE	CDU1_DATA_BIT_RATE	TLCM	STATUS	3	8010-6	J6	29
L-0101	CDU1_SNR	CDU1_SIGNAL-NOISE_RATIO	TLCM	UNSIGNED	8	8014	J6	29
L-0001	CDU1_OSC_MON	CDU1_OSC_MONITOR	TLCM	DIGITAL	8	8018	J6	9
L-0011	CDU1_OSC_OFL	CDU1_OSC_MON_OVER_FLOW	TLCM	STATUS	1	8018-1	J6	9
L-0100	CDU1_OSC_DRF	CDU1_OSC_DRIFT	TLCM	UNSIGNED	7	8018-2	J6	9
L-0004	CDU2_STA_DAT	CDU2_SERIAL_DATA	TLCM	DIGITAL	8	8020	J13	29
L-0020	CDU2_SPARES	CDU2_DATA_SPARES	TLCM	STATUS	3	8020-1	J13	29
L-0024	CDU2_SEU	CDU2_SINGLE_EVENT_UPSET	TLCM	STATUS	1	8020-4	J13	29
L-0023	CDU2_LOCK	CDU2_DATA_LOCK_STATUS	TLCM	STATUS	1	8020-5	J13	29
L-0022	CDU2_BITRATE	CDU2_DATA_BIT_RATE	TLCM	STATUS	3	8020-6	J13	29
L-0103	CDU2_SNR	CDU2_SIGNAL-NOISE_RATIO	TLCM	UNSIGNED	8	8024	J13	29
L-0003	CDU2_OSC_MON	CDU2_OSC_MONITOR	TLCM	DIGITAL	8	8028	J13	9
L-0021	CDU2_OSC_OFL	CDU2_OSC_MON_OVER_FLOW	TLCM	STATUS	1	8028-1	J13	9
L-0102	CDU2_OSC_DRF	CDU2_OSC_DRIFT	TLCM	UNSIGNED	7	8028-2	J13	9
C-0020	MOTCROSS	XSU_SERL_MOT_STATE	CDH	STATUS	1	8060-1	J5	5
C-0041	SSR_1A_MODE	SSR_1A_MODE	CDH	STATUS	4	8060-1	J5	5
C-0051	SSR_1B_MODE	SSR_1B_MODE	CDH	STATUS	4	8060-1	J5	5
C-0061	SSR_2A_MODE	SSR_2A_MODE	CDH	STATUS	4	8060-1	J5	5
C-0080	XSUSIDE1	XSU_SERL_TLM_SIDE1	CDH	STATUS	1	8060-1	J5	5
C-0081	XSUSIDE2	XSU_SERL_TLM_SIDE2	CDH	STATUS	1	8060-1	J5	5
C-0085	XSU1_PGC	XSU_SERL_AMPL_MOT1	CDH	STATUS	4	8060-1	J5	5
C-0086	XSU2_PGC	XSU_SERL_AMPL_MOT2	CDH	STATUS	4	8060-1	J5	5
C-0082	XSU_W2_SPARE	XSU_WRD2_SPARES	CDH	STATUS	4	8060-2	J5	5
C-0083	XSU_W4_SPARE	XSU_WRD4_SPARES	CDH	STATUS	4	8060-2	J5	5
C-0084	XSU_W6_SPARE	XSU_WRD6_SPARES	CDH	STATUS	4	8060-2	J5	5
C-0040	SSR_1A_CLOCK	SSR_1A_CLOCK	CDH	STATUS	4	8060-5	J5	5
C-0050	SSR_1B_CLOCK	SSR_1B_CLOCK	CDH	STATUS	4	8060-5	J5	5
C-0060	SSR_2A_CLOCK	SSR_2A_CLOCK	CDH	STATUS	4	8060-5	J5	5
C-0087	XSU1_SRC	XSU_STREAM_SELCT_1	CDH	STATUS	4	8060-5	J5	5
C-0088	XSU2_SRC	XSU_STREAM_SELCT_2	CDH	STATUS	4	8060-5	J5	5
C-0042	SSR_1A_PARTITION	SSR_1A_PARTITION	CDH	STATUS	3	8060-6	J5	5
C-0052	SSR_1B_PARTITION	SSR_1B_PARTITION	CDH	STATUS	3	8060-6	J5	5
C-0062	SSR_2A_PARTITION	SSR_2A_PARTITION	CDH	STATUS	3	8060-6	J5	5
L-0035	MOT1_RCVRLCK	MOT1_RECEVER_LOCK_STATUS	TLCM	STATUS	1	8100-1	J7	128
C-0014	M_PHASE_R1S2	MISSION_PH_REL_1 SCP2	CDH	STATUS	1	8100-2	J7	32
C-0016	M_PHASE_R2S2	MISSION_PH_REL_2 SCP2	CDH	STATUS	1	8100-3	J7	64
C-0018	M_PHASE_R3S2	MISSION_PH_REL_3 SCP2	CDH	STATUS	1	8100-4	J7	96
L-0045	MOT2_RCVRLCK	MOT2_RECEVER_LOCK_STATUS	TLCM	STATUS	1	8100-5	J12	128

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
C-0013	M_PHASE_R1S1	MISSION_PH_REL_1SCP1	CDH	STATUS	1	8100-6	J12	32
C-0017	M_PHASE_R3S1	MISSION_PH_REL_3SCP1	CDH	STATUS	1	8100-7	J12	64
C-0015	M_PHASE_R2S1	MISSION_PH_REL_2SCP1	CDH	STATUS	1	8100-8	J12	96
I-0015	TES_PWR	TES_INSTR_PWR_STATUS	PYLD	STATUS	1	8101-1	J7	1
I-0011	MOC_B_PWR	MOC_B_POWER	PYLD	STATUS	1	8101-2	J7	33
I-0006	MR_TRANS_ST	MBR_XPONDER_POWER_STATUS	PYLD	STATUS	1	8101-3	J7	65
I-0004	MAG_B_PWR	MAG_B_POWER_STATUS	PYLD	STATUS	1	8101-4	J7	97
I-0014	MOLA_PWR	MOLA_INSTR_PWR_STATUS	PYLD	STATUS	1	8101-5	J12	1
I-0010	MOC_A_PWR	MOC_A_POWER	PYLD	STATUS	1	8101-6	J12	33
I-0005	MR_TRANS_EN	MBR_XPONDER_ENABLE_STATUS	PYLD	STATUS	1	8101-7	J12	65
I-0003	MAG_A_PWR	MAG_A_POWER_STATUS	PYLD	STATUS	1	8101-8	J12	97
P-0016	LT_V5_P_POS	LATCH_VALVE5_PRI_POSITION	PROP	STATUS	1	8102-1	J7	2
L-0071	TWTA2_HV	TWTA2_HIGH_VOLTAGE_STATUS	TLCM	STATUS	1	8102-2	J7	34
P-0044	THR_CBoddSE	ODD_SEC_CB_HTR_TLM	PROP	STATUS	1	8102-3	J7	66
L-0060	TWTA1_FILMNT	TWTA1_FILAMENT_STATUS	TLCM	STATUS	1	8102-4	J7	98
C-0068	SSR_2A_DENA	SSR_2A_DENA	CDH	STATUS	1	8102-5	J12	2
L-0042	MOT2_EXCITER	MOT2_EXCITER_STATUS	TLCM	STATUS	1	8102-6	J12	34
L-0090	KaBLE_STAT	KaBLE_STATUS	TLCM	STATUS	1	8102-7	J12	66
C-0008	CIU_CLOCK_SL	CIU_CLOCK_SELECT	CDH	STATUS	1	8102-8	J12	98
C-0022	PDS_A_OK	PDS_SUBSYSTEM_A_OK	CDH	STATUS	1	8103-1	J7	3
L-0032	MOT1_EXCITER	MOT1_EXCITER_STATUS	TLCM	STATUS	1	8103-2	J7	35
L-0070	TWTA2_FILMNT	TWTA2_FILAMENT_STATUS	TLCM	STATUS	1	8103-3	J7	67
P-0012	LT_V4_P_POS	LATCH_VALVE4_PRI_POSITION	PROP	STATUS	1	8103-4	J7	99
C-0023	PDS_B_OK	PDS_SUBSYSTEM_B_OK	CDH	STATUS	1	8103-5	J12	3
L-0091	KaBLE_ENABLE	KABLE_ENABLE_TLM	TLCM	STATUS	1	8103-6	J12	35
L-0061	TWTA1_HV	TWTA1_HIGH_VOLTAGE_STATUS	TLCM	STATUS	1	8103-7	J12	67
C-0003	CIU_DESR_BUS	CIU_DESIRED_BUS:	CDH	STATUS	1	8103-8	J12	99
A-0010	IMU_DATA_CHB	IMU_DATA_CHANNEL_B	AACS	STATUS	1	8104-1	J7	4
A-0004	GYRO2_SP_MTR	GYRO_2_SPIN_MOTOR	AACS	STATUS	1	8104-2	J7	36
L-0041	MOT2_DOR_ON	MOT2_DOR_STATUS	TLCM	STATUS	1	8104-3	J7	68
A-0002	CS_TRI_B_PWR	CS_TRIAD_B_POWER	AACS	STATUS	1	8104-4	J7	100
A-0009	IMU_DATA_CHA	IMU_DATA_CHANNEL_A	AACS	STATUS	1	8104-5	J12	4
A-0011	IMU_HI_LO_ST	IMU_GYRO_RATE_MODE_STATUS	AACS	STATUS	1	8104-6	J12	36
A-0001	CS_TRI_A_PWR	CS_TRIAD_A_POWER	AACS	STATUS	1	8104-7	J12	68
L-0031	MOT1_DOR_ON	MOT1_DOR_STATUS	TLCM	STATUS	1	8104-8	J12	100
T-0032	LINEhyzP_HTR	PROP_LINE_N2H4_PRI_HTR_STAT	PROP	STATUS	1	8105-1	J7	5
T-0036	LINEntoP_HTR	PROP_LINE_NTO_PRI_HTR_STAT	PROP	STATUS	1	8105-2	J7	37
T-0003	MHSA_P_HTR	MHSA_PRI_HEATER_STATUS	AACS	STATUS	1	8105-3	J7	69
T-0002	CSA_S_HTR	CSA_SEC_HEATER_STATUS	AACS	STATUS	1	8105-4	J7	101
T-0033	LINEhyzS_HTR	PROP_LINE_N2H4_SEC_HTR_STAT	PROP	STATUS	1	8105-5	J12	5
T-0037	LINEntoS_HTR	PROP_LINE_NTO_SEC_HTR_STAT	PROP	STATUS	1	8105-6	J12	37
T-0004	MHSA_S_HTR	MHSA_SEC_HEATER_STATUS	AACS	STATUS	1	8105-7	J12	69

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
T-0001	CSA_P_HTR	CSA_PRI_HEATER_STATUS	AACS	STATUS	1	8105-8	J12	101
L-0037	MOT1_USO_ENA	MOT1_USO_ENABLE_STATUS	TLCM	STATUS	1	8106-1	J7	6
L-0044	MOT2_RANGING	MOT2_RANGING_STATUS	TLCM	STATUS	1	8106-2	J7	38
L-0033	MOT1_TWNC	MOT1_NOCOHERNT_ENA_STATUS	TLCM	STATUS	1	8106-3	J7	70
L-0080	USO_PWR	USO_POWER_STATUS	TLCM	STATUS	1	8106-4	J7	102
L-0047	MOT2_USO_ENA	MOT2_USO_ENABLE_STATUS	TLCM	STATUS	1	8106-5	J12	6
L-0034	MOT1_RANGING	MOT1_RANGING_STATUS	TLCM	STATUS	1	8106-6	J12	38
L-0043	MOT2_TWNC	MOT2_NOCOHERNT_ENA_STATUS	TLCM	STATUS	1	8106-7	J12	70
C-0048	SSR_1A_DENA	SSR_1A_DENA	CDH	STATUS	1	8106-8	J12	102
T-0020	THR_P_HTR	THRUSTER_ENCLOSURE_PRI_HTR_STAT	PROP	STATUS	1	8107-1	J7	7
P-0014	LT_V5_ARM	LATCH_VALVE5_ARM_STATUS	PROP	STATUS	1	8107-2	J7	39
T-0018	PTANKS_P_HTR	PROP_TANKS_PRI_HEATER_STATUS	PROP	STATUS	1	8107-3	J7	71
T-0015	SvLvCL_S_HTR	SUPPLY_VCL_SEC_HEATER_STATUS	PROP	STATUS	1	8107-4	J7	103
T-0021	THR_S_HTR	THRUSTER_ENCLOSURE_SEC_HTR_STAT	PROP	STATUS	1	8107-5	J12	7
P-0015	LT_V5_ENA	LATCH_VALVE5_ENAB_STATUS	PROP	STATUS	1	8107-6	J12	39
T-0019	PTANKS_S_HTR	PROP_TANKS_SEC_HEATER_STATUS	PROP	STATUS	1	8107-7	J12	71
T-0014	SvLvCL_P_HTR	SUPPLY_VCL_PRI_HEATER_STATUS	PROP	STATUS	1	8107-8	J12	103
A-0014	MHSA2_PWR	MHSA_1_POWER_STATUS	AACS	STATUS	1	8108-1	J7	8
A-0012	IMU_TCA_STAT	IMU_TCA_STATUS	AACS	STATUS	1	8108-2	J7	40
A-0007	GYRO_OVTMP_B	GYRO_LOOP_OVER_TEMP_B	AACS	STATUS	1	8108-3	J7	72
A-0005	GYRO3_SP_MTR	GYRO_3_SPIN_MOTOR	AACS	STATUS	1	8108-4	J7	104
A-0013	MHSA1_PWR	MHSA_1_POWER_STATUS	AACS	STATUS	1	8108-5	J12	8
A-0008	IMU_ACCEL_TST	IMU_ACCELL_TEST_STATUS	AACS	STATUS	1	8108-6	J12	40
A-0006	GYRO_OVTMP_A	GYRO_LOOP_OVER_TEMP_A	AACS	STATUS	1	8108-7	J12	72
A-0003	GYRO1_SP_MTR	GYRO_1_SPIN_MOTOR	AACS	STATUS	1	8108-8	J12	104
P-0069	MIDpyroA_ARM	MID_PYRO_A_ARM_STAT	PROP	STATUS	1	8109-1	J7	9
P-0010	LT_V4_ARM	LATCH_VALVE4_ARM_STATUS	PROP	STATUS	1	8109-3	J7	73
P-0024	ME_FLNG_A_EN	MAIN_ENGINE_FLANGE_HTR_A_ENAB	PROP	STATUS	1	8109-4	J7	105
P-0068	MIDpyroA_ENA	MID_PYRO_A_ENAB_STAT	PROP	STATUS	1	8109-5	J12	9
P-0067	MAPpyroB_ARM	MAPPING_PYRO_B_ARM_STAT	PROP	STATUS	1	8109-6	J12	41
P-0011	LT_V4_ENA	LATCH_VALVE4_ENAB_STATUS	PROP	STATUS	1	8109-7	J12	73
P-0006	LT_V2_S_POS	LATCH_VALVE2_SEC_POSITION	PROP	STATUS	1	8109-8	J12	105
C-0037	SCU2SCPK2_ST	SCU2_SELECTED SCP2	CDH	STATUS	1	810A-1	J7	10
C-0073	SSR_2B_PWR	SSR_2B_POWER	CDH	STATUS	1	810A-2	J7	42
C-0053	SSR_1B_PWR	SSR_1B_POWER	CDH	STATUS	1	810A-3	J7	74
C-0035	SCU1SCPK2_ST	SCU1_SELECTED SCP2	CDH	STATUS	1	810A-4	J7	106
C-0036	SCU2SCPK1_ST	SCU2_SELECTED SCP1	CDH	STATUS	1	810A-5	J12	10
C-0063	SSR_2A_PWR	SSR_2A_POWER	CDH	STATUS	1	810A-6	J12	42
C-0043	SSR_1A_PWR	SSR_1A_POWER	CDH	STATUS	1	810A-7	J12	74
C-0034	SCU1SCPK1_ST	SCU1_SELECTED SCP1	CDH	STATUS	1	810A-8	J12	106
E-0011	BAT2_PR_CHG	BAT2_PRI_CHARGE_PATH	PWR	STATUS	1	810B-1	J7	11
E-0005	BAT1_TRK_ON	BAT1_TRICKLE_ON	PWR	STATUS	1	810B-2	J7	43

Chan ID	MOS Mnemonic	Name	EDF TELEMETRY INDEX (By MUX Address)				MUX	Conn	Pin
			Sub	Data Type	Bits				
E-0015	BAT2_TRK_ON	BAT2_TRICKLE_ON	PWR	STATUS	1	810B-3	J7	75	
E-0004	BAT1_TRK_ENA	BAT1_TRICKLE_ENABLE	PWR	STATUS	1	810B-4	J7	107	
E-0013	BAT2_CHG_CFG	BAT2_CHARGE_CONFIG	PWR	STATUS	1	810B-5	J12	11	
E-0002	BAT1_BU_CHG	BAT1_BU_CHARGE_PATH	PWR	STATUS	1	810B-6	J12	43	
E-0014	BAT2_TRK_ENA	BAT2_TRICKLE_ENABLE	PWR	STATUS	1	810B-7	J12	75	
E-0006	BAT1_VT_SHFT	BAT1_VT_SHIFT_STATUS	PWR	STATUS	1	810B-8	J12	107	
C-0025	PDS_B_PWR	PDS_POWER_B_STATUS	CDH	STATUS	1	810C-1	J7	12	
I-0013	MOLA_ENA_ST	MOLA_INSTR_ENABLE_STATUS	PYLD	STATUS	1	810C-2	J7	44	
E-0012	BAT2_BU_CHG	BAT2_BU_CHARGE_PATH	PWR	STATUS	1	810C-3	J7	76	
E-0001	BAT1_PR_CHG	BAT1_PRI_CHARGE_PATH	PWR	STATUS	1	810C-4	J7	108	
E-0016	BAT2_VT_SHFT	BAT2_VT_SHIFT_STATUS	PWR	STATUS	1	810C-5	J12	12	
I-0001	ER_COVER_POS	ER_COVER_STATUS	PYLD	STATUS	1	810C-6	J12	44	
I-0012	MOLA_ARM_ST	MOLA_INSTR_ARM_STATUS	PYLD	STATUS	1	810C-7	J12	76	
C-0024	PDS_A_PWR	PDS_POWER_A_STATUS	CDH	STATUS	1	810C-8	J12	108	
T-0031	LINEhyzS_ENA	PROP_LINE_N2H4_SEC_ENAB_STATUS	PROP	STATUS	1	810D-1	J7	13	
T-0065	HGA_HD_S_HTR	HGAHINGE_DAMP_SEC_HTR_STAT	STR	STATUS	1	810D-2	J7	45	
T-0062	HGA_BM_P_HTR	HGA_BOOM_PRI_HTR_STAT	STR	STATUS	1	810D-3	J7	77	
T-0089	TWTGIM_S_HTR	TWTAENCL_GMBL_SEC_HTR_STAT	THRIM	STATUS	1	810D-4	J7	109	
T-0030	LINEhyzP_ENA	PROP_LINE_N2H4_PRI_ENAB_STATUS	PROP	STATUS	1	810D-5	J12	13	
T-0064	HGA_HD_P_HTR	HGAHINGE_DAMP_PRI_HTR_STAT	STR	STATUS	1	810D-6	J12	45	
T-0063	HGA_BM_S_HTR	HGA_BOOM_SEC_HTR_STAT	STR	STATUS	1	810D-7	J12	77	
T-0088	TWTGIM_P_HTR	TWTAENCL_GMBL_PRI_HTR_STAT	THRIM	STATUS	1	810D-8	J12	109	
T-0009	DeltaT_S_HTR	SEC_DELTA_T_HTR_TLM	PROP	STATUS	1	810E-1	J7	14	
P-0048	THRevnHI_ARM	THRUSTERS_8_10_11_ARM_STATUS	PROP	STATUS	1	810E-2	J7	46	
P-0025	ME_FLNG_A_ON	MAIN_ENGINE_FLANGE_HTR_A_ON	PROP	STATUS	1	810E-3	J7	78	
T-0023	ME_S_HTR	MAIN_ENGINE_SEC_HEATER_STATUS	PROP	STATUS	1	810E-4	J7	110	
P-0046	THRoddHI_ARM	THRUSTERS_7_9_12_ARM_STATUS	PROP	STATUS	1	810E-6	J12	46	
P-0027	ME_FLNG_B_ON	MAIN_ENGINE_FLANGE_HTR_B_ON	PROP	STATUS	1	810E-7	J12	78	
T-0022	ME_P_HTR	MAIN_ENGINE_PRI_HEATER_STATUS	PROP	STATUS	1	810E-8	J12	110	
P-0007	LT_V3_ENA	LATCH_VALVE3_ENAB_STATUS	PROP	STATUS	1	810F-1	J7	15	
P-0001	LT_V1_ENA	LATCH_VALVE1_ENAB_STATUS	PROP	STATUS	1	810F-2	J7	47	
P-0047	THRevnLO_ARM	THRUSTERS_2_4_6_ARM_STATUS	PROP	STATUS	1	810F-3	J7	79	
P-0022	ME_SD_B_ARM	MAIN_ENGINE_SIDE_B_ARM_STATUS	PROP	STATUS	1	810F-4	J7	111	
P-0004	LT_V2_ENA	LATCH_VALVE2_ENAB_STATUS	PROP	STATUS	1	810F-5	J12	15	
C-0069	SSR2BmodeC	SSR_2B_MODE_BIT_C	CDH	UNSIGNED	1	810F-6	J12	47	
P-0075	PV6pyroB_ARM	PYRO_VALVE_6_B_ARM_STAT	PROP	STATUS	1	810F-7	J12	79	
P-0023	ME_SD_B_ENA	MAIN_ENGINE_SIDE_B_ENAB_STATUS	PROP	STATUS	1	810F-8	J12	111	
P-0003	LT_V1_S_POS	LATCH_VALVE1_SEC_POSITION	PROP	STATUS	1	8110-1	J7	16	
P-0013	LT_V4_S_POS	LATCH_VALVE4_SEC_POSITION	PROP	STATUS	1	8110-2	J7	48	
P-0070	MIDpyroB_ENA	MID_PYRO_B_ENAB_STAT	PROP	STATUS	1	8110-3	J7	80	
P-0065	MAPpyroA_ARM	MAPPING_PYRO_A_ARM_STAT	PROP	STATUS	1	8110-4	J7	112	
P-0009	LT_V3_S_POS	LATCH_VALVE3_SEC_POSITION	PROP	STATUS	1	8110-5	J12	16	

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Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
P-0017	LT_V5_S_POS	LATCH_VALVE5_SEC_POSITION	PROP	STATUS	1	8110-6	J12	48
P-0071	MIDpyroB_ARM	MID_PYRO_B_ARM_STAT	PROP	STATUS	1	8110-7	J12	80
P-0043	THR_CBevenSE	EVEN_SEC_CB_HTR_TLM	PROP	STATUS	1	8110-8	J12	112
P-0026	ME_FLNG_B_EN	MAIN_ENGINE_FLANGE_HTR_B_ENAB	PROP	STATUS	1	8111-1	J7	17
C-0072	SSR_2B_PARTITION	SSR_2B_PARTITION	CDH	STATUS	3	8111-4	J7	49
C-0070	SSR2BmodeABD	SSR_2B_MODE_BITS_A_B_D	CDH	UNSIGNED	4	8111-8	J7	17
C-0067	SSR_2A_REOP	SSR_2A_RE_RECORD_EOP	CDH	STATUS	1	8112-1	J7	18
C-0066	SSR_2A_EOP	SSR_2A_END_OF_PART	CDH	STATUS	1	8112-2	J7	50
C-0065	SSR_2A_EOM	SSR_2A_END_OF_MEM	CDH	STATUS	1	8112-3	J7	82
C-0064	SSR_2A_READY	SSR_2A_READY	CDH	STATUS	1	8112-4	J7	114
C-0047	SSR_1A_REOP	SSR_1A_RE_RECORD_EOP	CDH	STATUS	1	8112-5	J12	18
C-0046	SSR_1A_EOP	SSR_1A_END_OF_PART	CDH	STATUS	1	8112-6	J12	50
C-0045	SSR_1A_EOM	SSR_1A_END_OF_MEM	CDH	STATUS	1	8112-7	J12	82
C-0044	SSR_1A_READY	SSR_1A_READY	CDH	STATUS	1	8112-8	J12	114
C-0077	SSR_2B_REOP	SSR_2B_RE_RECORD_EOP	CDH	STATUS	1	8113-1	J7	19
C-0076	SSR_2B_EOP	SSR_2B_END_OF_PART	CDH	STATUS	1	8113-2	J7	51
C-0075	SSR_2B_EOM	SSR_2B_END_OF_MEM	CDH	STATUS	1	8113-3	J7	83
C-0074	SSR_2B_READY	SSR_2B_READY	CDH	STATUS	1	8113-4	J7	115
C-0057	SSR_1B_REOP	SSR_1B_RE_RECORD_EOP	CDH	STATUS	1	8113-5	J12	19
C-0056	SSR_1B_EOP	SSR_1B_END_OF_PART	CDH	STATUS	1	8113-6	J12	51
C-0055	SSR_1B_EOM	SSR_1B_END_OF_MEM	CDH	STATUS	1	8113-7	J12	83
C-0054	SSR_1B_READY	SSR_1B_READY	CDH	STATUS	1	8113-8	J12	115
P-0042	THR_CB_12_EN	THRUSTER_12_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8114-1	J7	20
P-0041	THR_CB_11_EN	THRUSTER_11_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8114-2	J7	52
T-0012	PRS_VC2P_HTR	PRESSURANT_VCL2_PRI_HTR_STATUS	PROP	STATUS	1	8114-3	J7	84
T-0011	PRS_VC1S_HTR	PRESSURANT_VCL1_SEC_HTR_STATUS	PROP	STATUS	1	8114-4	J7	116
P-0040	THR_CB_10_EN	THRUSTER_10_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8114-5	J12	20
P-0039	THR_CB_09_EN	THRUSTER_09_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8114-6	J12	52
T-0013	PRS_VC2S_HTR	PRESSURANT_VCL2_SEC_HTR_STATUS	PROP	STATUS	1	8114-7	J12	84
T-0010	PRS_VC1P_HTR	PRESSURANT_VCL1_PRI_HTR_STATUS	PROP	STATUS	1	8114-8	J12	116
T-0085	EM+Y_S_HTR	EM+Y_PANEL_SEC_HTR_STAT	THRM	STATUS	1	8115-2	J7	53
T-0080	EM-X1_P_HTR	EM-X1_PANEL_PRI_HTR_STAT	THRM	STATUS	1	8115-3	J7	85
T-0083	EM-X2_S_HTR	EM-X2_PANEL_SEC_HTR_STAT	THRM	STATUS	1	8115-4	J7	117
T-0084	EM+Y_P_HTR	EM+Y_PANEL_PRI_HTR_STAT	THRM	STATUS	1	8115-6	J12	53
T-0081	EM-X1_S_HTR	EM-X1_PANEL_SEC_HTR_STAT	THRM	STATUS	1	8115-7	J12	85
T-0082	EM-X2_P_HTR	EM-X2_PANEL_PRI_HTR_STAT	THRM	STATUS	1	8115-8	J12	117
T-0072	SA-YGM_P_HTR	SA-Y_GMBL_PRI_HTR_STAT	STR	STATUS	1	8116-1	J7	22
T-0071	SA+YGM_S_HTR	SA+Y_GMBL_SEC_HTR_STAT	STR	STATUS	1	8116-2	J7	54
A-0023	IMU_LO_CMDP2	IMU_LO_CMD_PATH_2_TLM	AACS	STATUS	1	8116-3	J7	86
A-0022	IMU_HI_CMDP2	IMU_HI_CMD_PATH_2_TLM	AACS	STATUS	1	8116-4	J7	118
T-0073	SA-YGM_S_HTR	SA-Y_GMBL_SEC_HTR_STAT	STR	STATUS	1	8116-5	J12	22
T-0070	SA+YGM_P_HTR	SA+Y_GMBL_PRI_HTR_STAT	STR	STATUS	1	8116-6	J12	54

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Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
A-0021	IMU_LO_CMDP1	IMU_LO_CMD_PATH_1_TLM	AACS	STATUS	1	8116-7	J12	86
A-0020	IMU_HI_CMDP1	IMU_HI_CMD_PATH_1_TLM	AACS	STATUS	1	8116-8	J12	118
E-0003	BAT1_CHG_CFG	BAT1_CHARGE_CONFIG	PWR	STATUS	1	8117-1	J7	23
T-0016	PTANKS_P_ENA	PROP_TANKS_PRI_HTR_ENAB_STATUS	PROP	STATUS	1	8117-2	J7	55
E-0022	PSE_MODE_CRL	PSE_MODE_CNTL_STATUS	PWR	STATUS	1	8117-3	J7	87
T-0041	BAT_S_HTR	BATTERY_SEC_HEATER_STATUS	PWR	STATUS	1	8117-4	J7	119
C-0078	SSR_2B_DENA	SSR_2B_DENA	CDH	STATUS	1	8117-5	J12	23
E-0020	PSE_BOOST_REG	PSE_BOOST_V_REG_STATUS	PWR	STATUS	1	8117-6	J12	55
T-0017	PTANKS_S_ENA	PROP_TANKS_SEC_HTR_ENAB_STATUS	PROP	STATUS	1	8117-7	J12	87
T-0040	BAT_P_HTR	BATTERY_PRI_HEATER_STATUS	PWR	STATUS	1	8117-8	J12	119
P-0038	THR_CB_08_EN	THRUSTER_08_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-1	J7	24
P-0037	THR_CB_07_EN	THRUSTER_07_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-2	J7	56
P-0036	THR_CB_06_EN	THRUSTER_06_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-3	J7	88
P-0035	THR_CB_05_EN	THRUSTER_05_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-4	J7	120
P-0034	THR_CB_04_EN	THRUSTER_04_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-5	J12	24
P-0033	THR_CB_03_EN	THRUSTER_03_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-6	J12	56
P-0032	THR_CB_02_EN	THRUSTER_02_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-7	J12	88
P-0031	THR_CB_01_EN	THRUSTER_01_ENAB_CATBED_ON_STAT	PROP	STATUS	1	8118-8	J12	120
P-0074	PV6pyroA_ARM	PYRO_VALVE_6_A_ARM_STAT	PROP	STATUS	1	8119-1	J7	25
C-0010	CIX_IO_X_ST	CIX_IO_CROSSTATE	CDH	STATUS	1	8119-2	J7	57
C-0011	EDF_SIDE1_ST	EDF_SIDE_1_POWER	CDH	STATUS	1	8119-3	J7	89
P-0078	SA-YpyrA_ARM	SA-Y_PYRO_A_ARM_STAT	PROP	STATUS	1	8119-4	J7	121
C-0001	CIU_BUS_SLCT	CIU_BUS_SELECTED	CDH	STATUS	1	8119-5	J12	25
P-0061	CNTpyroA_ARM	CONTINGENCY_PYRO_A_ARM_STAT	PROP	STATUS	1	8119-6	J12	57
P-0076	SA+YpyrA_ARM	SA+Y_PYRO_A_ARM_STAT	PROP	STATUS	1	8119-7	J12	89
C-0005	CIU_RXO_SLCT	CIU_RXO_SELECTED	CDH	STATUS	1	8119-8	J12	121
C-0032	SCP1_NRM_SWP	SCP1_NORMAL_OR_SWAP	CDH	STATUS	1	811A-1	J7	26
C-0033	SCP2_NRM_SWP	SCP2_NORMAL_OR_SWAP	CDH	STATUS	1	811A-2	J7	58
C-0058	SSR_1B_DENA	SSR_1B_DENA	CDH	STATUS	1	811A-3	J7	90
C-0031	SCP2_ALO_ERR	SCP2_AT_LEAST_1_ERROR	CDH	STATUS	1	811A-4	J7	122
C-0029	RXO_MODE_STA	RXO_OSC_MODE_STATS	CDH	STATUS	1	811A-5	J12	26
C-0009	CIX_BUS_SLCT	CIX_BUS_SELECT	CDH	STATUS	1	811A-6	J12	58
C-0030	SCP1_ALO_ERR	SCP1_AT_LEAST_1_ERROR	CDH	STATUS	1	811A-7	J12	90
C-0012	EDF_SIDE2_ST	EDF_SIDE_2_POWER	CDH	STATUS	1	811A-8	J12	122
C-0007	CIU_SCP2_NOK	CIU_SCP2_OK_STATUS	CDH	STATUS	1	811B-1	J7	27
P-0008	LT_V3_P_POS	LATCH_VALVE3_PRI_POSITION	PROP	STATUS	1	811B-2	J7	59
C-0004	CIU_IO_X_ST	CIU_IO_CROSSTATE	CDH	STATUS	1	811B-3	J7	91
E-0021	PSE_CMD_SIDE	PSE_INTERFACE_SELECT	PWR	STATUS	1	811B-4	J7	123
C-0006	CIU_SCP1_NOK	CIU_SCP1_OK_STATUS	CDH	STATUS	1	811B-5	J12	27
P-0005	LT_V2_P_POS	LATCH_VALVE2_PRI_POSITION	PROP	STATUS	1	811B-6	J12	59
C-0002	CIU_CNTR_SCP	CIU_SCP_IN_CONTROL	CDH	STATUS	1	811B-7	J12	91
P-0002	LT_V1_P_POS	LATCH_VALVE1_PRI_POSITION	PROP	STATUS	1	811B-8	J12	123

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
T-0057	TES_HTR	TES_HEATER_ON/OFF	PYLD	STATUS	1	811C-1	J7	28
T-0056	MOLA_HTR	MOLA_HEATER_STATUS	PYLD	STATUS	1	811C-2	J7	60
T-0055	MOC_S_HTR	MOC_SEC_HEATER_STATUS	PYLD	STATUS	1	811C-3	J7	92
T-0053	MOC_BKOT_SW2	MOC_BAKE_HTR_SWCH2	PYLD	STATUS	1	811C-4	J7	124
T-0051	MAG_SENS_HTR	MAG_SENSR_HTR_PWR	PYLD	STATUS	1	811C-5	J12	28
T-0050	ER_HTR	ER_SENSOR_HTR_PWR	PYLD	STATUS	1	811C-6	J12	60
T-0054	MOC_P_HTR	MOC_PRI_HEATER_STATUS	PYLD	STATUS	1	811C-7	J12	92
T-0052	MOC_BKOT_SW1	MOC_BAKE_HTR_SWCH1	PYLD	STATUS	1	811C-8	J12	124
L-0058	RF_SW_23_INH	RF_SWITCH_2_3_INHIBIT_STATUS	TLCM	STATUS	1	811D-1	J7	29
P-0021	ME_SD_A_ENA	MAIN_ENGINE_SIDE_A_ENAB_STATUS	PROP	STATUS	1	811D-2	J7	61
P-0063	CNTpyroB_ARM	CONTINGENCY_PYRO_B_ARM_STAT	PROP	STATUS	1	811D-3	J7	93
P-0077	SA+YpyrB_ARM	SA+Y_PYRO_B_ARM_STAT	PROP	STATUS	1	811D-4	J7	125
T-0008	DeltaT_P_HTR	PRI_DELTA_T_HTR_TLM	PROP	STATUS	1	811D-5	J12	29
P-0079	SA-YpyrB_ARM	SA-Y_PYRO_B_ARM_STAT	PROP	STATUS	1	811D-6	J12	61
P-0045	THRoddLO_ARM	THRUSTERS_1_3_5_ARM_STATUS	PROP	STATUS	1	811D-7	J12	93
P-0020	ME_SD_A_ARM	MAIN_ENGINE_SIDE_A_ARM_STATUS	PROP	STATUS	1	811D-8	J12	125
L-0036	MOT1_TLM_MOD	MOT1_TLM_MODULATION	TLCM	STATUS	1	811F-1	J7	31
L-0046	MOT2_TLM_MOD	MOT2_TLM_MODULATION	TLCM	STATUS	1	811F-2	J7	63
L-0052	RF_SW_LGT	RF_SWITCH_LGT_STATUS	TLCM	STATUS	1	811F-3	J7	95
L-0053	RF_SW_OSC	RF_SWITCH_OSC_STATUS	TLCM	STATUS	3	811F-6	J7	127
L-0050	RF_SW_INPUT	RF_SWITCH_INPUT_STATUS	TLCM	STATUS	1	811F-7	J12	95
L-0051	RF_SW_OUTPUT	RF_SWITCH_OUTPUT_STATUS	TLCM	STATUS	1	811F-8	J12	127
T-0143	THR_01_CB_T	THRUSTER_01_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8200	J8	1
T-0147	THR_05_CB_T	THRUSTER_05_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8201	J8	2
T-0151	THR_09_CB_T	THRUSTER_09_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8202	J8	3
T-0144	THR_02_CB_T	THRUSTER_02_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8209	J8	10
T-0148	THR_06_CB_T	THRUSTER_06_CATBED_TEMPERATURE	PROP	UNSIGNED	8	820A	J8	11
T-0152	THR_10_CB_T	THRUSTER_10_CATBED_TEMPERATURE	PROP	UNSIGNED	8	820B	J8	12
T-0145	THR_03_CB_T	THRUSTER_03_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8212	J8	19
T-0149	THR_07_CB_T	THRUSTER_07_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8213	J8	20
T-0153	THR_11_CB_T	THRUSTER_11_CATBED_TEMPERATURE	PROP	UNSIGNED	8	8214	J8	21
T-0146	THR_04_CB_T	THRUSTER_04_CATBED_TEMPERATURE	PROP	UNSIGNED	8	821B	J8	28
T-0150	THR_08_CB_T	THRUSTER_08_CATBED_TEMPERATURE	PROP	UNSIGNED	8	821C	J8	29
T-0154	THR_12_CB_T	THRUSTER_12_CATBED_TEMPERATURE	PROP	UNSIGNED	8	821D	J8	30
A-0170	RWA_X_MTR_I	RWA_X_MOTOR_CURRENT	AACS	UNSIGNED	8	8240	J8	33
A-0136	IMU_+10_DC_V	IMU_+10_VOLTS_DC	AACS	UNSIGNED	8	8241	J8	34
E-0119	BAT2_PRESS_2	BAT2_PRESSURE_SENSOR_2	PWR	UNSIGNED	8	8242	J8	35
C-0116	CIU_EPC-10BV	CIU_EPC_-10V_B	CDH	UNSIGNED	8	8243	J8	36
P-0060	CNTpyroA_ENA	CONTINGENCY_PYRO_A_ENAB_STAT	PROP	UNSIGNED	8	8244	J8	37
A-0141	IMU_PR_AC_V	IMU_PRI_AC_PWR_SUP_MON	AACS	UNSIGNED	8	8245	J8	38
C-0142	SSR_1A_I	SSR_1A_CURRENT	CDH	UNSIGNED	8	8246	J8	39
E-0101	BAT1_HI_V	BAT1_VOLTAGE_HIGH_RANGE	PWR	UNSIGNED	8	8247	J8	40

Chan ID	MOS Mnemonic	Name	EDF TELEMETRY INDEX (By MUX Address)				MUX	Conn	Pin
			Sub	Data Type	Bits				
A-0181	ACCEL_-Y	ACCELRATION_-Y	AACS	UNSIGNED	8	8248	J8	41	
A-0103	CSA_TRB-14_V	CSA_TRIAD_B_-14V	AACS	UNSIGNED	8	8249	J8	42	
T-0127	SSR_1B_T	SSR_1B_TEMPERATURE	CDH	UNSIGNED	8	824A	J8	43	
A-0100	CSA_TRA+14_V	CSA_TRIAD_A_+14V	AACS	UNSIGNED	8	824B	J8	44	
C-0112	CIU_ACE_B_RV	CIU_ACE_B_REF_VOLT	CDH	UNSIGNED	8	824C	J8	45	
C-0107	A_CAL1_5.12V	EDF1_AN_CAL_V_5.12	CDH	UNSIGNED	8	824D	J8	46	
C-0125	PDS_A_+5_V	PDS_SIDE_A_+5V_OUT	CDH	UNSIGNED	8	824E	J8	47	
A-0110	MHSA_DET1_V	MHSA_SIDE_1_DETECT	AACS	UNSIGNED	8	824F	J8	48	
T-0105	MHSA_HSE_T	MHSA_HOUSING_TEMPERATURE	AACS	UNSIGNED	8	8250	J8	49	
T-0231	MOC_WAA_T	MOC_WAA_TEMPERATURE	PYLD	UNSIGNED	8	8251	J8	50	
T-0280	HGA_T	HIGH_GAIN_ANTENNA_TEMPERATURE	THRIM	UNSIGNED	8	8252	J8	51	
T-0138	THR_08_VLV_T	THRUSTER_08_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8253	J8	52	
T-0302	EPC1_T	EPC1_TEMPERATURE	TLCM	UNSIGNED	8	8254	J8	53	
T-0229	MOC_NAfp_T	MOC_NAfp_TEMPERATURE	PYLD	UNSIGNED	8	8255	J8	54	
T-0120	PDS_BOX_T	PDS_TEMPERATURE	CDH	UNSIGNED	8	8256	J8	55	
T-0123	RXO_BOX_T	RXO_BOX_TEMPERATURE	CDH	UNSIGNED	8	8257	J8	56	
C-0120	EDF2_CAL_I	EDF2_CALIBR_CURRNT	CDH	UNSIGNED	8	8258	J8	57	
T-0189	PCAhpLINE_T	PCA_HIGH_PRES_LINE_TEMP	PROP	UNSIGNED	8	8259	J8	58	
T-0273	EM-X_PNL_T3	EM-X_PANEL_TEMPERATURE_3	THRIM	UNSIGNED	8	825A	J8	59	
T-0136	THR_06_VLV_T	THRUSTER_06_VALVE_TEMPERATURE	PROP	UNSIGNED	8	825B	J8	60	
T-0308	MOT2_VCO_T	MOT2_REC_VCO_TEMPERATURE	TLCM	UNSIGNED	8	825C	J8	61	
T-0241	HGA_DAMPER_T	HGA_DAMPER_TEMPERATURE	STR	UNSIGNED	8	825D	J8	62	
T-0203	BAT2_T2	BATT_PACK_2_B_TEMPERATURE	PWR	UNSIGNED	8	825E	J8	63	
T-0271	EM-X_PNL_T1	EM-X_PANEL_TEMPERATURE_1	THRIM	UNSIGNED	8	825F	J8	64	
T-0192	THRevnLINE_T	THRUSTERS_EVEN_LINE_TEMP	PROP	UNSIGNED	8	8260	J8	65	
T-0141	THR_11_VLV_T	THRUSTER_11_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8261	J8	66	
T-0315	USO_T	USO_TEMPERATURE	TLCM	UNSIGNED	8	8262	J8	67	
T-0171	SUP_V_CLS4_T	SUPPLY_VALVE_CLUSTER4_TEMP	PROP	UNSIGNED	8	8263	J8	68	
T-0133	THR_03_VLV_T	THRUSTER_03_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8264	J8	69	
T-0300	CDU1_T	CDU1_TEMPERATURE	TLCM	UNSIGNED	8	8265	J8	70	
T-0278	EM-Z_PNL_T1	EM-Z_PANEL_TEMPERATURE_1	THRIM	UNSIGNED	8	8266	J8	71	
T-0210	SA+Y_INR_F_T	SA+Y_INNER_FRONT_TEMPERATURE	PWR	UNSIGNED	8	8267	J8	72	
T-0225	MR_ANT_T	MR_ANTENNA_TEMPERATURE	PYLD	UNSIGNED	8	8268	J8	73	
T-0119	GDE_SA2_T	SA2_GDE_TEMPERATURE	CDH	UNSIGNED	8	8269	J8	74	
T-0263	CENT_COLM2_T	CENTER_COLUMN2_TEMPERATURE	THRIM	UNSIGNED	8	826A	J8	75	
T-0214	SA-Y_INR_F_T	SA-Y_INNER_FRONT_TEMPERATURE	PWR	UNSIGNED	8	826B	J8	76	
T-0252	SA+Y_GMBL1_T	SA+Y_GIMBAL1_TEMPERATURE	STR	UNSIGNED	8	826C	J8	77	
T-0116	EDF_BOX_T	EDF_BOX_TEMPERATURE	CDH	UNSIGNED	8	826D	J8	78	
T-0162	ME_FLANGE_T2	MAIN_ENGINE_FLANGE_TEMP_2	PROP	UNSIGNED	8	826E	J8	79	
T-0115	CIX_T	CIX_TEMPERATURE	CDH	UNSIGNED	8	826F	J8	80	
T-0200	BAT1_T1	BATT_PACK_1_A_TEMPERATURE	PWR	UNSIGNED	8	8270	J8	81	
T-0179	NTO_TANK_T2	NTO_TANK_TEMPERATURE_2	PROP	UNSIGNED	8	8271	J8	82	

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
T-0176	GHe_TANK_T1	GHe_TANK_TEMPERATURE_1	PROP	UNSIGNED	8	8272	J8	83
T-0191	THRoddLINE_T	THRUSTERS_ODD_LINE_TEMP	PROP	UNSIGNED	8	8273	J8	84
T-0264	DIV_PANEL1_T	DIVIDER_PANEL1_TEMPERATURE	THRM	UNSIGNED	8	8274	J8	85
T-0313	TWT2_T	TWT2_TEMPERATURE	TLCM	UNSIGNED	8	8275	J8	86
T-0276	EM-Y_PNL_T1	EM-Y_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	8276	J8	87
T-0155	THR_CLUS_1_T	THRUSTER_CLUSTER_1_TEMPERATURE	PROP	UNSIGNED	8	8277	J8	88
T-0175	VALV_GRP4_T	VALVE_GROUP4_TEMPERATURE	PROP	UNSIGNED	8	8278	J8	89
T-0159	ME_VALVE_T1	MAIN_ENGINE_VALVE_TEMP_1	PROP	UNSIGNED	8	8279	J8	90
T-0182	N2H4_TNK2_T1	N2H4_TANK2_TEMPERATURE_1	PROP	UNSIGNED	8	827A	J8	91
T-0117	GDE_HGA_T	HGA_GDE_TEMPERATURE	CDH	UNSIGNED	8	827B	J8	92
T-0235	TES_ELEC_T	TES_ELECTRONICS_TEMPERATURE	PYLD	UNSIGNED	8	827C	J8	93
T-0222	MAG_ELC_T	MAG_ELECTRONICS_TEMPERATURE	PYLD	UNSIGNED	8	827D	J8	94
T-0274	EM+Y_PNL_T1	EM+Y_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	827E	J8	95
A-0171	RWA_Y_MTR_I	RWA_Y_MOTOR_CURRENT	AACS	UNSIGNED	8	8280	J9	128
T-0129	SSR_2B_T	SSR_2B_TEMPERATURE	CDH	UNSIGNED	8	8281	J9	1
E-0111	BAT2_HI_V	BAT2_VOLTAGE_HIGH_RANGE	PWR	UNSIGNED	8	8282	J9	2
T-0205	BCR1_HSNK_T	BCR1_HEAT_SINK_TEMPERATURE	PWR	UNSIGNED	8	8283	J9	3
S-0101	SA+YinrPOT_B	SA+Y_INNER_POTENTIOMETER_B	STR	UNSIGNED	8	8284	J9	4
L-0111	MOT1_RCV_AGC	MOT1_RECEIVER_AGC	TLCM	UNSIGNED	8	8285	J9	5
T-0221	ER_SENSOR_T	ER_SENSOR_TEMPERATURE	PYLD	UNSIGNED	8	8286	J9	6
T-0103	MHSA_S1_T	MHSA1_TEMPERATURE	AACS	UNSIGNED	8	8288	J9	8
C-0126	PDS_B_+5_V	PDS_SIDE_B_+5V_OUT	CDH	UNSIGNED	8	828A	J9	10
E-0141	PSE+28_BUS_I	PSE_+28V_REG_BUS_CURRENT	PWR	UNSIGNED	8	828B	J9	11
S-0104	SA-YinrPOT_A	SA-Y_INNER_POTENTIOMETER_A	STR	UNSIGNED	8	828C	J9	12
L-0123	MOT2_RCV_SPE	MOT2_RECEIVER_SPE	TLCM	UNSIGNED	8	828D	J9	13
A-0137	IMU_+15_DC_V	IMU_+15_VOLTS_DC	AACS	UNSIGNED	8	8290	J9	16
C-0113	CIU_EPC+10AV	CIU_EPC_+10V_A	CDH	UNSIGNED	8	8291	J9	17
E-0102	BAT1_LO_V	BAT1_VOLTAGE_LOW_RANGE	PWR	UNSIGNED	8	8292	J9	18
T-0223	MAG+_Y_T	MAG+_Y_TEMPERATURE	PYLD	UNSIGNED	8	8293	J9	19
S-0107	SA-YoutPOT_B	SA-Y_OUTER_POTENTIOMETER_B	STR	UNSIGNED	8	8294	J9	20
A-0133	IMU_YB-X3_TQ	IMU_YB-X3_TORQUER_I	AACS	UNSIGNED	8	8297	J9	23
E-0117	BAT2_VT_LMIT	BAT2_VT_LIMIT_STATE	PWR	UNSIGNED	8	8298	J9	24
C-0145	SSR_2A_-5V	SSR_2A_-5_VOLT_PS	CDH	UNSIGNED	8	8299	J9	25
E-0112	BAT2_LO_V	BAT2_VOLTAGE_LOW_RANGE	PWR	UNSIGNED	8	829A	J9	26
T-0101	IMU_BLOCK_T	IMU_BLOCK_TEMPERATURE	AACS	UNSIGNED	8	829B	J9	27
T-0122	RXO_BU_OVN_T	RXO_BU_OVEN_TEMPERATURE	CDH	UNSIGNED	8	829E	J9	30
T-0106	RWA_X_BRG_T	RWA_X_BEARING_TEMPERATURE	AACS	UNSIGNED	8	829F	J9	31
C-0110	CIU_ACEdaB_V	CIU_ACE_BBBS_OUTPUT	CDH	UNSIGNED	8	82A1	J9	33
E-0133	SA+Y_lsc_I	SA+_Y_SHORT_CIRCUIT_CURRENT	PWR	UNSIGNED	8	82A3	J9	35
P-0105	NTO_OUT_PRS	NTO_TANK_OUTLET_PRESSURE	PROP	UNSIGNED	8	82A4	J9	36
L-0200	USO_REG_V	USO_REGULATOR_VOLTAGE	TLCM	UNSIGNED	8	82A5	J9	37
C-0102	A_CAL2_1.28V	EDF2_AN_CAL_V_1.28	CDH	UNSIGNED	8	82A6	J9	38

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
C-0143	SSR_1B_-5V	SSR_1B_-5_VOLT_PS	CDH	UNSIGNED	8	82A8	J9	40
L-0141	TWTA2_HLX_I	TWTA2_HELIX_CURRENT	TLCM	UNSIGNED	8	82A9	J9	41
P-0064	MAPpyroA_ENA	MAPPING_PYRO_A_ENAB_STAT	PROP	UNSIGNED	8	82AA	J9	42
E-0109	BAT1_PRESS_2	BAT1_PRESSURE_SENSOR_2	PWR	UNSIGNED	8	82AB	J9	43
P-0101	GHe_PRS	GHe_TANK_PRESSURE	PROP	UNSIGNED	8	82AC	J9	44
A-0112	MHSA_VOI1_V	MHSA_VORS_INT_I-1	AACS	UNSIGNED	8	82AD	J9	45
T-0109	RWA_S_BRG_T	RWA_S_BEARING_TEMPERATURE	AACS	UNSIGNED	8	82AE	J9	46
C-0104	A_CAL2_2.56V	EDF2_AN_CAL_V_2.56	CDH	UNSIGNED	8	82AF	J9	47
A-0152	SPMTR_PH_C_V	SPIN_MTR_C_PHS_TLM	AACS	UNSIGNED	8	82C0	J9	48
E-0135	SA+Y_Voc_V	SA+_Y_OPEN_CIRCUIT_VOLTAGE	PWR	UNSIGNED	8	82C1	J9	49
C-0146	SSR_2A_I	SSR_2A_CURRENT	CDH	UNSIGNED	8	82C2	J9	50
A-0122	SS1_ATA_I	SS1_ATA_CURRENT	AACS	UNSIGNED	8	82C3	J9	51
C-0108	A_CAL2_5.12V	EDF2_AN_CAL_V_5.12	CDH	UNSIGNED	8	82C4	J9	52
S-0111	HGA_POT_B	HGA_POTENTIOMETER_B	STR	UNSIGNED	8	82C6	J9	54
E-0115	BAT2_CHRG_I	BAT2_CHARGE_CURRENT	PWR	UNSIGNED	8	82C7	J9	55
A-0114	MHSA_VOII1_V	MHSA_VORS_INT_II-1	AACS	UNSIGNED	8	82C8	J9	56
E-0130	SA_OUTPUT_I	SOLAR_ARRAY_OUTPUT_I	PWR	UNSIGNED	8	82C9	J9	57
P-0072	PTCMpyrA_ENA	PRE_TCM_PYRO_A_ENAB_STAT	PROP	UNSIGNED	8	82CA	J9	58
A-0161	GYRO2_MTR_I	GYRO_2_MOTOR_CURRENT	AACS	UNSIGNED	8	82CB	J9	59
A-0130	IMU_XA-Z2_TQ	IMU_XA-Z2_TORQUER_I	AACS	UNSIGNED	8	82CC	J9	60
L-0122	MOT2_RCV_I	MOT2_RECEIVER_CURRENT	TLCM	UNSIGNED	8	82CD	J9	61
L-0132	TWTA1_ANOD_V	TWTA1_ANODE_VOLTAGE	TLCM	UNSIGNED	8	82CE	J9	62
A-0182	ACCEL_+Z	ACCELERATION_+Z	AACS	UNSIGNED	8	82CF	J9	63
T-0168	SUP_V_CLS1_T	SUPPLY_VALVE_CLUSTER1_TEMP	PROP	UNSIGNED	8	82D0	J9	64
T-0140	THR_10_VLV_T	THRUSTER_10_VALVE_TEMPERATURE	PROP	UNSIGNED	8	82D1	J9	65
T-0190	GHesupLINE_T	GHe_SUPPLY_LINE_TEMP	PROP	UNSIGNED	8	82D2	J9	66
T-0233	MOLA_LSR_T	MOLA LASER_BOX_TEMP	PYLD	UNSIGNED	8	82D3	J9	67
T-0156	THR_CLUS_2_T	THRUSTER_CLUSTER_2_TEMPERATURE	PROP	UNSIGNED	8	82D4	J9	68
T-0100	CSA_T	CSA_TEMPERATURE	AACS	UNSIGNED	8	82D6	J9	70
T-0307	MOT2_AUX_T	MOT2_AUX_OSC_TEMPERATURE	TLCM	UNSIGNED	8	82D7	J9	71
T-0265	DIV_PANEL2_T	DIVIDER_PANEL2_TEMPERATURE	THRM	UNSIGNED	8	82D8	J9	72
T-0243	HGA_GIMBL1_T	HGA_GIMBAL1_TEMPERATURE	STR	UNSIGNED	8	82D9	J9	73
T-0124	SCP1_INTRN_T	SCP1_INTERNAL_TEMPERATURE	CDH	UNSIGNED	8	82DA	J9	74
T-0255	SA-Y_GMBL2_T	SA-Y_GIMBAL2_TEMPERATURE	STR	UNSIGNED	8	82DB	J9	75
T-0228	MOC_LWR_SM_T	MOC_LOWER_SM_TEMPERATURE	PYLD	UNSIGNED	8	82DC	J9	76
T-0132	THR_02_VLV_T	THRUSTER_02_VALVE_TEMPERATURE	PROP	UNSIGNED	8	82DD	J9	77
T-0275	EM+Y_PNL_T2	EM+Y_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	82DE	J9	78
T-0215	SA-Y_INR_B_T	SA-Y_INNER_BACK_TEMPERATURE	PWR	UNSIGNED	8	82DF	J9	79
T-0187	N2H4inLINE_T	N2H4_INLET_LINE_TEMP	PROP	UNSIGNED	8	82E0	J9	80
T-0118	GDE_SA1_T	SA1_GDE_TEMPERATURE	CDH	UNSIGNED	8	82E1	J9	81
T-0279	EM-Z_PNL_T2	EM-Z_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	82E2	J9	82
T-0186	NTOinLINE_T	NTO_INLET_LINE_TEMP	PROP	UNSIGNED	8	82E3	J9	83

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
T-0181	N2H4_TNK1_T2	N2H4_TANK1_TEMPERATURE_2	PROP	UNSIGNED	8	82E4	J9	84
T-0135	THR_05_VLV_T	THRUSTER_05_VALVE_TEMPERATURE	PROP	UNSIGNED	8	82E5	J9	85
T-0211	SA+Y_INR_B_T	SA+Y_INNER_BACK_TEMPERATURE	PWR	UNSIGNED	8	82E7	J9	87
T-0198	BCA_TRSTR3_T	BRC2_TRANSISTOR_Q1_TEMPERATURE	PWR	UNSIGNED	8	82E8	J9	88
T-0139	THR_09_VLV_T	THRUSTER_09_VALVE_TEMPERATURE	PROP	UNSIGNED	8	82E9	J9	89
T-0286	NADIR_PNL_T2	NADIR_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	82EA	J9	90
T-0161	ME_FLANGE_T1	MAIN_ENGINE_FLANGE_TEMP_1	PROP	UNSIGNED	8	82EB	J9	91
T-0284	LV_CVR_TWT_T	LOUVER_COVER_TWTA_TEMPERATURE	THRM	UNSIGNED	8	82ED	J9	93
T-0174	VALV_GRP3_T	VALVE_GROUP3_TEMPERATURE	PROP	UNSIGNED	8	82EE	J9	94
T-0312	TWT1_T	TWT1_TEMPERATURE	TLCM	UNSIGNED	8	82EF	J9	95
A-0172	RWA_Z_MTR_I	RWA_Z_MOTOR_CURRENT	AACS	UNSIGNED	8	8300	J10	128
T-0206	BCR2_HSNK_T	BCR2_HEAT_SINK_TEMPERATURE	PWR	UNSIGNED	8	8303	J10	3
S-0105	SA-YinrPOT_B	SA-Y_INNER_POTENTIOMETER_B	STR	UNSIGNED	8	8304	J10	4
L-0121	MOT2_RCV_AGC	MOT2_RECEIVER_AGC	TLCM	UNSIGNED	8	8305	J10	5
A-0150	SPMTR_PH_A_V	SPIN_MTR_A_PHS_TLM	AACS	UNSIGNED	8	8308	J10	8
C-0117	EDF1_CNV_V	EDF_CONVSTAT_SIDE1	CDH	UNSIGNED	8	8309	J10	9
E-0105	BAT1_CHRG_I	BAT1_CHARGE_CURRENT	PWR	UNSIGNED	8	830A	J10	10
E-0142	PSE_PL_BUS_I	PSE_PA_BUS_CURRENT	PWR	UNSIGNED	8	830B	J10	11
L-0114	MOT1_RNG_AGC	MOT1_RANGE_AGC	TLCM	UNSIGNED	8	830D	J10	13
A-0138	IMU_-15_DC_V	IMU_-15_VOLTS_DC	AACS	UNSIGNED	8	8310	J10	16
C-0114	CIU_EPC+10BV	CIU_EPC_+10V_B	CDH	UNSIGNED	8	8311	J10	17
L-0110	MOT1_EX_RF	MOT1_EXCITER_RF_OUTPUT	TLCM	UNSIGNED	8	8312	J10	18
T-0224	MAG_-Y_T	MAG_-Y_TEMPERATURE	PYLD	UNSIGNED	8	8313	J10	19
E-0108	BAT1_PRESS_1	BAT1_PRESSURE_SENSOR_1	PWR	UNSIGNED	8	8314	J10	20
T-0121	RXO_PR_OVN_T	RXO_PRI_OVEN_TEMPERATURE	CDH	UNSIGNED	8	8316	J10	22
T-0107	RWA_Y_BRG_T	RWA_Y_BEARING_TEMPERATURE	AACS	UNSIGNED	8	8318	J10	24
C-0131	SCP1_+5_V	SCP1_+5V_PWR_SUPPL	CDH	UNSIGNED	8	8319	J10	25
E-0114	BAT2_CHRG_RT	BAT2_CHARGE_RATE_STATUS	PWR	UNSIGNED	8	831A	J10	26
E-0134	SA-Y_Isc_I	SA_Y_SHORT_CIRCUIT_CURRENT	PWR	UNSIGNED	8	831B	J10	27
C-0141	SSR_1A_-5V	SSR_1A_-5_VOLT_PS	CDH	UNSIGNED	8	8320	J10	32
C-0109	CIU_ACEdaA_V	CIU_ACE_ABUS_OUPUT	CDH	UNSIGNED	8	8321	J10	33
E-0131	SA+Y_I	SOLAR_ARRAY+_Y_CURRENT	PWR	UNSIGNED	8	8323	J10	35
P-0104	N2H4_IN_PRS	N2H4_TANKS_INLET_PRESSURE	PROP	UNSIGNED	8	8324	J10	36
L-0201	USO_OVEN_V	USO_OVEN_HEATER_VOLTAGE	TLCM	UNSIGNED	8	8325	J10	37
T-0128	SSR_2A_T	SSR_2A_TEMPERATURE	CDH	UNSIGNED	8	8326	J10	38
A-0183	ACCEL_+S	ACCELRATION_+S	AACS	UNSIGNED	8	8327	J10	39
C-0101	A_CAL1_1.28V	EDF1_AN_CAL_V_1.28	CDH	UNSIGNED	8	8329	J10	41
E-0103	BAT1_HALF_V	BAT1_HALF_VOLTAGE	PWR	UNSIGNED	8	832A	J10	42
S-0100	SA+YinrPOT_A	SA+Y_INNER_POTENTIOMETER_A	STR	UNSIGNED	8	832B	J10	43
P-0103	NTO_IN_PRS	NTO_TANK_INLET_PRESSURE	PROP	UNSIGNED	8	832C	J10	44
C-0106	A_CAL2_3.84V	EDF2_AN_CAL_V_3.84	CDH	UNSIGNED	8	832F	J10	47
C-0148	SSR_2B_I	SSR_2B_CURRENT	CDH	UNSIGNED	8	8340	J10	48

Chan ID	MOS Mnemonic	Name	EDF TELEMETRY INDEX (By MUX Address)				MUX	Conn	Pin
			Sub	Data Type	Bits				
A-0140	IMU_TCA_BU_V	IMU_TCA_BU_VOLTGE	AACS	UNSIGNED	8	8341	J10	49	
A-0102	CSA_TRB+14_V	CSA_TRIAD_B_+14V	AACS	UNSIGNED	8	8342	J10	50	
A-0121	SS2_DC_CNV_V	SS2_ATA_DC-DC_CONV	AACS	UNSIGNED	8	8343	J10	51	
A-0160	GYRO1_MTR_I	GYRO_1_MOTOR_CURRENT	AACS	UNSIGNED	8	8344	J10	52	
A-0143	IMU_PR_DC_V	IMU_PRI_DC_PWR_SUP_MON	AACS	UNSIGNED	8	8345	J10	53	
E-0143	PSE_BVR_CHAN	PSE_BVR_STATUS	PWR	UNSIGNED	8	8346	J10	54	
P-0066	MAPpyroB_ENA	MAPPING_PYRO_B_ENAB_STAT	PROP	UNSIGNED	8	8347	J10	55	
A-0134	IMU_ZA+Y1_TQ	IMU_ZA+Y1_TORQUER_I	AACS	UNSIGNED	8	8348	J10	56	
S-0103	SA+YoutPOT_B	SA+Y_OUTER_POTENTIOMETER_B	STR	UNSIGNED	8	8349	J10	57	
A-0113	MHSA_VOI2_V	MHSA_VORS_INT_I-2	AACS	UNSIGNED	8	834A	J10	58	
C-0147	SSR_2B_-5V	SSR_2B_-5_VOLT_PS	CDH	UNSIGNED	8	834B	J10	59	
C-0103	A_CAL1_2.56V	EDF1_AN_CAL_V_2.56	CDH	UNSIGNED	8	834C	J10	60	
S-0110	HGA_POT_A	HGA_POTENTIOMETER_A	STR	UNSIGNED	8	834D	J10	61	
C-0152	XSU2_CNV_V	XSU_CONVSTAT_SIDE2	CDH	UNSIGNED	8	834E	J10	62	
L-0113	MOT1_RCV_SPE	MOT1_RECEIVER_SPE	TLCM	UNSIGNED	8	834F	J10	63	
T-0201	BAT1_T2	BATT_PACK_1_B_TEMPERATURE	PWR	UNSIGNED	8	8350	J10	64	
T-0232	MOLA_ELEC_T	MOLA ELECTRONICS BOX TEMP	PYLD	UNSIGNED	8	8351	J10	65	
T-0142	THR_12_VLV_T	THRUSTER_12_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8352	J10	66	
T-0285	NADIR_PNL_T1	NADIR_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	8353	J10	67	
T-0183	N2H4_TNK2_T2	N2H4_TANK2_TEMPERATURE_2	PROP	UNSIGNED	8	8354	J10	68	
T-0253	SA+Y_GMBL2_T	SA+Y_GIMBAL2_TEMPERATURE	STR	UNSIGNED	8	8355	J10	69	
T-0316	KA_AMP_T	KA_AMP_TEMPERATURE	TLCM	UNSIGNED	8	8356	J10	70	
T-0212	SA+Y_OUT_F_T	SA+Y_OUTER_FRONT_TEMPERATURE	PWR	UNSIGNED	8	8357	J10	71	
T-0207	PSA_T1	PSA_TEMPERATURE_1	PWR	UNSIGNED	8	8358	J10	72	
T-0216	SA-Y_OUT_F_T	SA-Y_OUTER_FRONT_TEMPERATURE	PWR	UNSIGNED	8	8359	J10	73	
T-0272	EM-X_PNL_T2	EM-X_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	835A	J10	74	
T-0178	NTO_TANK_T1	NTO_TANK_TEMPERATURE_1	PROP	UNSIGNED	8	835B	J10	75	
T-0157	THR_CLUS_3_T	THRUSTER_CLUSTER_3_TEMPERATURE	PROP	UNSIGNED	8	835C	J10	76	
T-0169	SUP_V_CLS2_T	SUPPLY_VALVE_CLUSTER2_TEMP	PROP	UNSIGNED	8	835D	J10	77	
T-0269	EM-X_RADTR_T	EM-X_RADIATOR_TEMPERATURE	THRM	UNSIGNED	8	835E	J10	78	
T-0311	RF_ISOLTR2_T	RF_ISOLATOR_2_TEMPERATURE	TLCM	UNSIGNED	8	835F	J10	79	
T-0114	CIU_T	CIU_TEMPERATURE	CDH	UNSIGNED	8	8360	J10	80	
T-0131	THR_01_VLV_T	THRUSTER_01_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8361	J10	81	
T-0277	EM-Y_PNL_T2	EM-Y_PANEL_TEMPERATURE_2	THRM	UNSIGNED	8	8362	J10	82	
T-0266	DIV_PANEL3_T	DIVIDER_PANEL3_TEMPERATURE	THRM	UNSIGNED	8	8363	J10	83	
T-0270	EM+X_PNL_T1	EM+X_PANEL_TEMPERATURE_1	THRM	UNSIGNED	8	8364	J10	84	
T-0314	TWTA_ENCL_T	TWTA_ENCLOSURE_TEMPERATURE	TLCM	UNSIGNED	8	8365	J10	85	
T-0202	BAT2_T1	BATT_PACK_2_A_TEMPERATURE	PWR	UNSIGNED	8	8366	J10	86	
T-0260	AFT_PANEL1_T	AFT_PANEL1_TEMPERATURE	THRM	UNSIGNED	8	8367	J10	87	
T-0305	MOT1_VCO_T	MOT1_REC_VCO_TEMPERATURE	TLCM	UNSIGNED	8	8368	J10	88	
T-0134	THR_04_VLV_T	THRUSTER_04_VALVE_TEMPERATURE	PROP	UNSIGNED	8	8369	J10	89	
T-0262	CENT_COLM1_T	CENTER_COLUMN1_TEMPERATURE	THRM	UNSIGNED	8	836A	J10	90	

Chan ID	MOS Mnemonic	Name	EDF TELEMETRY INDEX (By MUX Address)					Conn	Pin
			Sub	Data Type	Bits	MUX			
T-0166	PYRO_VGRP1_T	PYRO_VALVE_GROUP1_TEMPERATURE	PROP	UNSIGNED	8	836B	J10	91	
T-0173	VALV_GRP2_T	VALVE_GROUP2_TEMPERATURE	PROP	UNSIGNED	8	836C	J10	92	
T-0137	THR_07_VLV_T	THRUSTER_07_VALVE_TEMPERATURE	PROP	UNSIGNED	8	836D	J10	93	
T-0164	PRES_CNTL1_T	PRESSURANT_CNTL1_TEMPERATURE	PROP	UNSIGNED	8	836F	J10	95	
A-0173	RWA_S_MTR_I	RWA_S_MOTOR_CURRENT	AACS	UNSIGNED	8	8380	J11	128	
E-0140	PSE+28_BUS_V	PSE_+28V_REG_BUS_VOLTAGE	PWR	UNSIGNED	8	8383	J11	3	
A-0151	SPMTR_PH_B_V	SPIN_MTR_B_PHS_TLM	AACS	UNSIGNED	8	8388	J11	8	
C-0119	EDF2_CNV_V	EDF_CONVSTAT_SIDE2	CDH	UNSIGNED	8	8389	J11	9	
E-0106	BAT1_DCHG_I	BAT1_DISCHG_CURRENT	PWR	UNSIGNED	8	838A	J11	10	
T-0209	PSE_HSNK_T	PSE_HEAT_SINK_TEMPERATURE	PWR	UNSIGNED	8	838B	J11	11	
L-0120	MOT2_EX_RF	MOT2_EXCITER_RF_OUTPUT	TLCM	UNSIGNED	8	838D	J11	13	
T-0126	SSR_1A_T	SSR_1A_TEMPERATURE	CDH	UNSIGNED	8	838F	J11	15	
A-0139	IMU_TCA_PR_V	IMU_TCA_PRI_VOLTGE	AACS	UNSIGNED	8	8390	J11	16	
C-0115	CIU_EPC-10AV	CIU_EPC_-10V_A	CDH	UNSIGNED	8	8391	J11	17	
E-0107	BAT1_VT_LMIT	BAT1_VT_LIMIT_STATE	PWR	UNSIGNED	8	8392	J11	18	
E-0137	SA_PAR_SH_V	SA_PARTIAL_SHUNT_VOLTAGE	PWR	UNSIGNED	8	8393	J11	19	
E-0104	BAT1_CHRG_RT	BAT1_CHARGE_RATE_STATUS	PWR	UNSIGNED	8	8395	J11	21	
A-0123	SS2_ATA_I	SS2_ATA_CURRENT	AACS	UNSIGNED	8	8398	J11	24	
C-0111	CIU_ACE_A_RV	CIU_ACE_A_REF_VOLT	CDH	UNSIGNED	8	8399	J11	25	
E-0132	SA-Y_I	SOLAR_ARRAY_-Y_CURRENT	PWR	UNSIGNED	8	839B	J11	27	
P-0106	N2H4_OUT_PRS	N2H4_TANKS_OUTLET_PRESSURE	PROP	UNSIGNED	8	839C	J11	28	
L-0142	TWTA2_ANOD_V	TWTA2_ANODE_VOLTAGE	TLCM	UNSIGNED	8	839D	J11	29	
T-0104	MHSA_S2_T	MHSA2_TEMPERATURE	AACS	UNSIGNED	8	839F	J11	31	
C-0144	SSR_1B_I	SSR_1B_CURRENT	CDH	UNSIGNED	8	83A0	J11	32	
C-0151	XSU1_CNV_V	XSU_CONVSTAT_SIDE1	CDH	UNSIGNED	8	83A1	J11	33	
E-0118	BAT2_PRESS_1	BAT2_PRESSURE_SENSOR_1	PWR	UNSIGNED	8	83A3	J11	35	
P-0102	LINE_PRS	LINE_PRESSURE	PROP	UNSIGNED	8	83A5	J11	37	
A-0111	MHSA_DET2_V	MHSA_SIDE_2_DETECT	AACS	UNSIGNED	8	83A8	J11	40	
C-0105	A_CAL1_3.84V	EDF1_AN_CAL_V_3.84	CDH	UNSIGNED	8	83A9	J11	41	
E-0113	BAT2_HALF_V	BAT2_HALF_VOLTAGE	PWR	UNSIGNED	8	83AA	J11	42	
S-0102	SA+YoutPOT_A	SA+Y_OUTER_POTENTIOMETER_A	STR	UNSIGNED	8	83AB	J11	43	
L-0112	MOT1_RCV_I	MOT1_RECEIVER_CURRENT	TLCM	UNSIGNED	8	83AC	J11	44	
S-0106	SA-YoutPOT_A	SA-Y_OUTER_POTENTIOMETER_A	STR	UNSIGNED	8	83AD	J11	45	
C-0132	SCP2_+5_V	SCP2_+5V_PWR_SUPPL	CDH	UNSIGNED	8	83AE	J11	46	
T-0108	RWA_Z_BRG_T	RWA_Z_BEARING_TEMPERATURE	AACS	UNSIGNED	8	83AF	J11	47	
A-0101	CSA_TRA-14_V	CSA_TRIAD_A_-14V	AACS	UNSIGNED	8	83C0	J11	48	
A-0180	ACCEL_X	ACCELRATION_X	AACS	UNSIGNED	8	83C1	J11	49	
A-0131	IMU_XB-Z3_TQ	IMU_XB-Z3_TORQUER_I	AACS	UNSIGNED	8	83C2	J11	50	
L-0131	TWTA1_HLX_I	TWTA1_HELIX_CURRENT	TLCM	UNSIGNED	8	83C3	J11	51	
A-0132	IMU_YA-X1_TQ	IMU_YA-X1_TORQUER_I	AACS	UNSIGNED	8	83C4	J11	52	
A-0162	GYRO3_MTR_I	GYRO_3_MOTOR_CURRENT	AACS	UNSIGNED	8	83C5	J11	53	
P-0073	PTCMpyrB_ENA	PRE_TCM_PYRO_B_ENAB_STAT	PROP	UNSIGNED	8	83C6	J11	54	

Chan ID	MOS Mnemonic	Name	Sub	Data Type	Bits	MUX	Conn	Pin
P-0062	CNTpyroB_ENA	CONTINGENCY_PYRO_B_ENAB_STAT	PROP	UNSIGNED	8	83C7	J11	55
E-0116	BAT2_DCHG_I	BAT2_DISCHG_CURRENT	PWR	UNSIGNED	8	83C8	J11	56
L-0124	MOT2_RNG_AGC	MOT2_RANGE_AGC	TLCM	UNSIGNED	8	83C9	J11	57
A-0135	IMU_ZB+Y2_TQ	IMU_ZB+Y2_TORQUER_I	AACS	UNSIGNED	8	83CA	J11	58
A-0115	MHSA_VOII2_V	MHSA_VORS_INT_II-2	AACS	UNSIGNED	8	83CB	J11	59
A-0144	IMU_BU_DC_V	IMU_BU_DC_PWR_SUP_MON	AACS	UNSIGNED	8	83CC	J11	60
E-0136	SA-Y_Voc_V	SA_Y_OPEN_CIRCUIT_VOLTAGE	PWR	UNSIGNED	8	83CD	J11	61
A-0142	IMU_BU_AC_V	IMU_BU_AC_PWR_SUP_MON	AACS	UNSIGNED	8	83CE	J11	62
A-0120	SS1_DC_CNV_V	SS1_ATA_DC-DC_CONV	AACS	UNSIGNED	8	83CF	J11	63
T-0304	MOT1_AUX_T	MOT1_AUX_OSC_TEMPERATURE	TLCM	UNSIGNED	8	83D0	J11	64
T-0267	DIV_PANEL4_T	DIVIDER_PANEL4_TEMPERATURE	THR M	UNSIGNED	8	83D1	J11	65
T-0172	VALV_GRP1_T	VALVE_GROUP1_TEMPERATURE	PROP	UNSIGNED	8	83D2	J11	66
T-0254	SA-Y_GMBL1_T	SA-Y_GIMBAL1_TEMPERATURE	STR	UNSIGNED	8	83D3	J11	67
T-0234	TES_OPTICS_T	TES_OPTICS_TEMPERATURE	PYLD	UNSIGNED	8	83D4	J11	68
T-0244	HGA_GIMBL2_T	HGA_GIMBAL2_TEMPERATURE	STR	UNSIGNED	8	83D5	J11	69
T-0196	BCA_TRSTR1_T	BRC1_TRANSISTOR_Q1_TEMPERATURE	PWR	UNSIGNED	8	83D6	J11	70
C-0118	EDF1_CAL_I	EDF1_CALIBR_CURRNT	CDH	UNSIGNED	8	83D7	J11	71
T-0102	IMU_HSE_T	IMU_HOUSING_TEMPERATURE	AACS	UNSIGNED	8	83D8	J11	72
T-0130	XSU_INTRN_T	XSU_INTERNAL_TEMPERATURE	CDH	UNSIGNED	8	83D9	J11	73
T-0197	BCA_TRSTR2_T	BRC1_TRANSISTOR_Q3_TEMPERATURE	PWR	UNSIGNED	8	83DA	J11	74
T-0226	MR_ELEC_T	MR_ELECTRONICS_TEMPERATURE	PYLD	UNSIGNED	8	83DB	J11	75
T-0227	MOC_ELEC_T	MOC_ELECTRONICS_TEMPERATURE	PYLD	UNSIGNED	8	83DC	J11	76
T-0240	HGA_CABLE_T	HGA_CABLE_TEMPERATURE	STR	UNSIGNED	8	83DD	J11	77
T-0188	PCAlpLINE_T	PCA_LOW_PRES_LINE_TEMP	PROP	UNSIGNED	8	83DE	J11	78
T-0184	MEV1_LINE_T	MAIN_ENGINE_VALVE1_LINE_TEMP	PROP	UNSIGNED	8	83DF	J11	79
T-0158	THR_CLUS_4_T	THRUSTER_CLUSTER_4_TEMPERATURE	PROP	UNSIGNED	8	83E0	J11	80
T-0177	GHe_TANK_T2	GHe_TANK_TEMPERATURE_2	PROP	UNSIGNED	8	83E1	J11	81
T-0165	PRES_CNTL2_T	PRESSURANT_CNTL2_TEMPERATURE	PROP	UNSIGNED	8	83E2	J11	82
T-0167	PYRO_VGRP2_T	PYRO_VALVE_GROUP2_TEMPERATURE	PROP	UNSIGNED	8	83E3	J11	83
T-0217	SA-Y_OUT_B_T	SA-Y_OUTER_BACK_TEMPERATURE	PWR	UNSIGNED	8	83E4	J11	84
T-0199	BCA_TRSTR4_T	BRC2_TRANSISTOR_Q3_TEMPERATURE	PWR	UNSIGNED	8	83E5	J11	85
T-0185	MEV2_LINE_T	MAIN_ENGINE_VALVE2_LINE_TEMP	PROP	UNSIGNED	8	83E6	J11	86
T-0230	MOC_UPR_SM_T	MOC_UPPER_SM_TEMPERATURE	PYLD	UNSIGNED	8	83E7	J11	87
T-0208	PSA_T2	PSA_TEMPERATURE_2	PWR	UNSIGNED	8	83E8	J11	88
T-0301	CDU2_T	CDU2_TEMPERATURE	TLCM	UNSIGNED	8	83E9	J11	89
T-0310	RF_ISOLTR1_T	RF_ISOLATOR_1_TEMPERATURE	TLCM	UNSIGNED	8	83EA	J11	90
T-0125	SCP2_INTRN_T	SCP2_INTERNAL_TEMPERATURE	CDH	UNSIGNED	8	83EB	J11	91
T-0180	N2H4_TNK1_T1	N2H4_TANK1_TEMPERATURE_1	PROP	UNSIGNED	8	83EC	J11	92
T-0213	SA+Y_OUT_B_T	SA+Y_OUTER_BACK_TEMPERATURE	PWR	UNSIGNED	8	83ED	J11	93
T-0170	SUP_V_CLS3_T	SUPPLY_VALVE_CLUSTER3_TEMP	PROP	UNSIGNED	8	83EE	J11	94
T-0303	EPC2_T	EPC2_TEMPERATURE	TLCM	UNSIGNED	8	83EF	J11	95

Appendix B

EDF Telemetry Measurement Data Sheets

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EDF TELEMETRY

A-0001	CS_TRI_A_PWR		AACS
Data Type: STATUS # Bits: 1	Description: CS_TRIAD_A_POWER Data Range:	Channel Type: DISCRETE MUX Address: 8104-7 Connector-Pin: J12-68	
Indicates status of CSA triad A.			
Loss of Function: Three of six CSA slits would function. Slightly degraded inertial attitude acquisition performance.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACs.			
Alternate Telemetry: None. Related Measurements: CSA "A" Triad bits in IMU status word TLM (i.e. SCP to EDF TLM).			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = OFF 1 = ON	
A-0002	CS_TRI_B_PWR		AACS
Data Type: STATUS # Bits: 1	Description: CS_TRIAD_B_POWER Data Range:	Channel Type: DISCRETE MUX Address: 8104-4 Connector-Pin: J7-100	
Indicates status of CSA triad B.			
Loss of Function: Three of six CSA slits would function. Slightly degraded inertial attitude acquisition.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACs.			
Alternate Telemetry: None. Related Measurements: CSA "B" Triad bits in IMU status word TLM (i.e. SCP to EDF TLM).			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = OFF 1 = ON	

EDF TELEMETRY

A-0003	GYRO1_SP_MTR		AACS
Data Type: STATUS # Bits: 1	Description: GYRO_1_SPIN_MOTOR Data Range:	Channel Type: DISCRETE MUX Address: 8108-8 Connector-Pin: J12-104	
Indicates whether gyro 1 spin motor is on and at correct speed.			
Loss of Function: Flight software automatically switch to redundant gyro configuration: in the event of a spin motor failure.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Spin motor bits in IMU status word TLM (i.e. SCP to EDF TLM).			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = OFF_BAD 1 = ON_OK	
A-0004	GYRO2_SP_MTR		AACS
Data Type: STATUS # Bits: 1	Description: GYRO_2_SPIN_MOTOR Data Range:	Channel Type: DISCRETE MUX Address: 8104-2 Connector-Pin: J7-36	
Indicates whether gyro 2 spin motor is on and at correct speed.			
Loss of Function: Flight software automatically switches to redundant gyro configuration: in the event of a spin motor failure.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Spin motor bits in IMU status word TLM (i.e. SCP to EDF TLM).			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = OFF_BAD 1 = ON_OK	

EDF TELEMETRY

A-0005	GYRO3_SP_MTR		AACS
Data Type: STATUS # Bits: 1	Description: GYRO_3_SPIN_MOTOR Data Range:	Channel Type: DISCRETE MUX Address: 8108-4 Connector-Pin: J7-104	
Indicates whether gyro 3 spin motor is at correct speed.			
Loss of Function: Flight software automatically switches to redundant gyro configuration: in the event of a spin motor failure.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACs.			
Alternate Telemetry: None. Related Measurements: Spin motor bits in IMU status word TLM (i.e. SCP to EDF TLM).			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = OFF_BAD 1 = ON_OK	
A-0006	GYRO_OVTMP_A		AACS
Data Type: STATUS # Bits: 1	Description: GYRO_LOOP_OVER_TEMP_A Data Range:	Channel Type: DISCRETE MUX Address: 8108-7 Connector-Pin: J12-72	
Indicates over-temperature condition warning on gyros.			
Loss of Function: Alternate temperature indicator available.			
Recommended Action: None			
Impact of Loss of Tlm: Alternate temperature monitoring channel available.			
Alternate Telemetry: A-0007; T-0101 Related Measurements: A-0007 (GYRO_OVTMP_B); T-0064 (IMU_BLOCK_T).			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = TOO_HIGH 1 = TEMP_OK	

EDF TELEMETRY

A-0007	GYRO_OVTMP_B	AACS
Data Type: STATUS # Bits: 1	Description: GYRO_LOOP_OVER_TEMP_B Data Range:	Channel Type: DISCRETE MUX Address: 8108-3 Connector-Pin: J7-72
Indicates over-temperature condition on gyros.		
Loss of Function: Alternate temperature indicator available.		
Recommended Action: None		
Impact of Loss of Tlm: Alternate temperature monitoring channel available.		
Alternate Telemetry: A-0006; T-0101 Related Measurements: A-0006 (GYRO_OVTMP_A); T-0064 (IMU_BLOCK_T).		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = TOO_HIGH 1 = TEMP_OK
A-0008	IMU_ACCEL_TST	AACS
Data Type: STATUS # Bits: 1	Description: IMU_ACCELL_TEST_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8108-6 Connector-Pin: J12-40
Indicates that an accelerometer test is in progress. This is an IMU test for diagnostic use used on the ground.		
Loss of Function: No accelerometer test capability. (Not critical to mission)		
Recommended Action: None.		
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON

EDF TELEMETRY

A-0009	IMU_DATA_CHA		AACS
Data Type: STATUS # Bits: 1	Description: IMU_DATA_CHANNEL_A Data Range:	Channel Type: DISCRETE MUX Address: 8104-5 Connector-Pin: J12-4	
Monitors IMU data channel 1 output.			
Loss of Function: Flight software automatically switches to redundant IMU channel.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AAC.			
Alternate Telemetry: None.			
Related Measurements: Logic Channel bits in IMU status word TLM (i.e. SCP to EDF TLM. SCP body rate data would indicate that data is being received			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SELECTED 1 = SELECTED	
A-0010	IMU_DATA_CHB		AACS
Data Type: STATUS # Bits: 1	Description: IMU_DATA_CHANNEL_B Data Range:	Channel Type: DISCRETE MUX Address: 8104-1 Connector-Pin: J7-4	
Monitors IMU data channel 2 output.			
Loss of Function: Flight software automatically switches to redundant IMU channel.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AAC.			
Alternate Telemetry: None.			
Related Measurements: Logic Channel bits in IMU status word TLM (i.e. SCP to EDF TLM. SCP body rate data would indicate that data is being received			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SELECTED 1 = SELECTED	

EDF TELEMETRY

A-0011	IMU_HI_LO_ST		AACS
Data Type: STATUS # Bits: 1	Description: IMU_GYRO_RATE_MODE_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8104-6 Connector-Pin: J12-36	
Indicates IMU gyro rate mode.			
Loss of Function: In ability to switch to low rate mode would result in slightly degraded performance in mapping phase. High rate mode can always be achieved by IMU power off/on.			
Recommended Action: Inability to switch to low rate mode would result in slightly degraded performance in mapping phase. High rate mode can always be achieved by IMU power off/on. IMU stuck in low rate before reaching mapping orbit may be mission catastrophic. Aerobraking may be difficult in low rate.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: IMU Mode bits in IMU status word TLM (i.e. SCP to EDF TLM).			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = LOW 1 = HIGH	
A-0012	IMU_TCA_STAT		AACS
Data Type: STATUS # Bits: 1	Description: IMU_TCA_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8108-2 Connector-Pin: J7-40	
Indicates primary or backup TCA in use.			
Loss of Function: Loss of TCA switching would result in loss of redundancy on TCA.			
Recommended Action: None.			
Impact of Loss of Tlm: No indication of TCA in use. No performance effect.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BACK_UP 1 = PRIMARY	

EDF TELEMETRY

A-0013	MHSA1_PWR	AACS
Data Type: STATUS # Bits: 1	Description: MHSA_1_POWER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8108-5 Connector-Pin: J12-8
Provides MHSA side1 electronics status.		
Loss of Function: Loss of MHSA redundancy. MHSA side 2 electronics will automatically be switched if side 1 fails.		
Recommended Action: None.		
Impact of Loss of Tlm: Cannot verify MHSA side 1 status.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF
A-0014	MHSA2_PWR	AACS
Data Type: STATUS # Bits: 1	Description: MHSA_1_POWER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8108-1 Connector-Pin: J7-8
Provides MHSA side 2 electronics status.		
Loss of Function: Loss of MHSA redundancy. MHSA side 1 electronics will automatically be switched on if side 2 fails.		
Recommended Action: None.		
Impact of Loss of Tlm: Cannot verify MHSA 2 status.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF

EDF TELEMETRY

A-0020	IMU_HI_CMDP1		AACS			
Data Type: STATUS # Bits: 1	Description: IMU_HI_CMD_PATH_1_TLM Data Range:	Channel Type: DISCRETE MUX Address: 8116-8 Connector-Pin: J12-118				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = 0 1 = 1 </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1				
A-0021	IMU_LO_CMDP1		AACS			
Data Type: STATUS # Bits: 1	Description: IMU_LO_CMD_PATH_1_TLM Data Range:	Channel Type: DISCRETE MUX Address: 8116-7 Connector-Pin: J12-86				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = 0 1 = 1 </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1				

EDF TELEMETRY

A-0022	IMU_HI_CMDP2		AACS			
Data Type: STATUS # Bits: 1	Description: IMU_HI_CMD_PATH_2_TLM Data Range:	Channel Type: DISCRETE MUX Address: 8116-4 Connector-Pin: J7-118				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = 0 1 = 1 </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1				
A-0023	IMU_LO_CMDP2		AACS			
Data Type: STATUS # Bits: 1	Description: IMU_LO_CMD_PATH_2_TLM Data Range:	Channel Type: DISCRETE MUX Address: 8116-3 Connector-Pin: J7-86				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = 0 1 = 1 </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1				

EDF TELEMETRY

A-0100	CSA_TRA+14_V	AACS
Data Type: UNSIGNED # Bits: 8	Description: CSA_TRIAD_A_+14V Data Range: 0.000:15.792	Channel Type: HL ANALOG MUX Address: 824B Connector-Pin: J8-44
Provides status of +14V power supply from IMU to CSA Triad A.		
Loss of Function: Degraded inertial attitude acquisition if one CSA triad is lost. Flight software automatically switches to redundant DC power supply if power is lost to both sides of CSA. Recommended Action: Issue command to alternate IMU DC power supply. Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS. Alternate Telemetry: None. Related Measurements: Check DC power supply & CSA triad bits in IMU stat word SCP TLM.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 6.19290E-02
A-0101	CSA_TRA-14_V	AACS
Data Type: UNSIGNED # Bits: 8	Description: CSA_TRIAD_A_-14V Data Range: -15.750:0.000	Channel Type: HL ANALOG MUX Address: 83C0 Connector-Pin: J11-48
Provides status of -14V power supply from IMU to CSA Triad A.		
Loss of Function: Degraded inertial attitude acquisition if one CSA triad is lost. Flight software automatically switches to redundant DC power supply if power is lost to both sides of CSA. Recommended Action: Issue command to alternate IMU DC power supply; if failure verified. Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS. Alternate Telemetry: None. Related Measurements: Check DC power supply & CSA triad bits in IMU stat word SCP TLM.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = -6.17655E-02

EDF TELEMETRY

A-0102	CSA_TRB+14_V	AACS
Data Type: UNSIGNED # Bits: 8	Description: CSA_TRIAD_B_+14V Data Range: 0.000:15.838	Channel Type: HL ANALOG MUX Address: 8342 Connector-Pin: J10-50
Provides status of +14V power supply from IMU to CSA Triad B.		
Loss of Function: Degraded inertial attitude acquisition if one CSA triad is lost. Flight software automatically switches to redundant DC power supply if power is lost to both sides of CSA. Recommended Action: Issue command to alternate IMU DC power supply. Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS. Alternate Telemetry: None. Related Measurements: Check DC power supply & CSA triad bits in IMU stat work SCP TLM.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 6.21106E-02
A-0103	CSA_TRB-14_V	AACS
Data Type: UNSIGNED # Bits: 8	Description: CSA_TRIAD_B_-14V Data Range: -15.742:0.000	Channel Type: HL ANALOG MUX Address: 8249 Connector-Pin: J8-42
Provides status of -14V power supply from IMU to CSA Triad B.		
Loss of Function: Demod inertial attitude acquisition capability if one CSA trend is lost. Flight software automatically switches to redundant DC supply if power is lost to both sides of CSA. Recommended Action: Issue command to alternate IMU DC supply; if failure verified. Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS. Alternate Telemetry: None. Related Measurements: Check AACS DC power supply ad CSA triad bits in IMU status word in SCP telemetry.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = -6.17319E-02

EDF TELEMETRY

A-0110	MHSA_DET1_V	AACS
Data Type: UNSIGNED # Bits: 8	Description: MHSA_SIDE_1_DETECT Data Range: -9.294:9.665	Channel Type: HL ANALOG MUX Address: 824F Connector-Pin: J8-48
Provides analog output of MHSA output signal for diagnostic purposes.		
Loss of Function: Flight software automatically switches to redundant MHSA side when functional loss detected.		
Recommended Action: None.		
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.		
Alternate Telemetry: None. Related Measurements: Check AACS MHSA roll and pitch angle; and MHSA sector readings in SCP TLM.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -9.29368E+00 n1 = 7.43494E-02
A-0111	MHSA_DET2_V	AACS
Data Type: UNSIGNED # Bits: 8	Description: MHSA_SIDE_2_DETECT Data Range: -9.294:9.665	Channel Type: HL ANALOG MUX Address: 83A8 Connector-Pin: J11-40
Provides analog output of MHSA output processed for diagnostic purposes.		
Loss of Function: Flight software automatically switches to redundant MHSA side when functional loss detected.		
Recommended Action: None.		
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.		
Alternate Telemetry: None. Related Measurements: Check AACS MHSA roll and pitch angle; and MHSA sector readings in SCP TLM.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -9.29368E+00 n1 = 7.43494E-02

EDF TELEMETRY

A-0112	MHSA_VOI1_V		AACS
Data Type: UNSIGNED # Bits: 8	Description: MHSA_VORS_INT_I1 Data Range: -9.864:24.909	Channel Type: HL ANALOG MUX Address: 82AD Connector-Pin: J9-45	
Provides analog output of side 1 offset radiation source (ORS) voltage summed with integrator I. For diagnostic use.			
Loss of Function: Flight software automatically switches to redundant MHSA side when functional loss detected.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS MHSA roll/pitch angle SCP TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -9.86364E+00 n1 = 1.36364E-01	
A-0113	MHSA_VOI2_V		AACS
Data Type: UNSIGNED # Bits: 8	Description: MHSA_VORS_INT_I2 Data Range: -9.864:24.909	Channel Type: HL ANALOG MUX Address: 834A Connector-Pin: J10-58	
Provides analog output of side 2 offset radiation source (ORS) voltage summed with Integrator I. For diagnostic use.			
Loss of Function: Flight software automatically switches to redundant MHSA side when functional loss detected.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS MHSA roll/pitch angle SCP TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -9.86364E+00 n1 = 1.36364E-01	

EDF TELEMETRY

A-0114	MHSA_VOII1_V	AACS
Data Type: UNSIGNED # Bits: 8	Description: MHSA_VORS_INT_II-1 Data Range: -9.864:24.909	Channel Type: HL ANALOG MUX Address: 82C8 Connector-Pin: J9-56
Provides analog output of side 1 ORS voltage summed with integrator II. For diagnostic use.		
Loss of Function: Flight software automatically switches to redundant MHSA side when functional loss detected.		
Recommended Action: None.		
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.		
Alternate Telemetry: None. Related Measurements: Check AACS MHSA roll/pitch angle SCP TLM.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -9.86364E+00 n1 = 1.36364E-01
A-0115	MHSA_VOII2_V	AACS
Data Type: UNSIGNED # Bits: 8	Description: MHSA_VORS_INT_II-2 Data Range: -9.864:24.909	Channel Type: HL ANALOG MUX Address: 83CB Connector-Pin: J11-59
Provides analog output of side 2 Offset Radiation Source (ORS) voltage summed with Integrator II. For diagnostic use.		
Loss of Function: Flight software automatically switches to redundant MHSA side when functional loss detected.		
Recommended Action: None.		
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.		
Alternate Telemetry: None. Related Measurements: Check AACS MHSA roll/pitch angle SCP TLM.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -9.86364E+00 n1 = 1.36364E-01

EDF TELEMETRY

A-0120	SS1_DC_CNV_V		AACS
Data Type: UNSIGNED # Bits: 8	Description: SS1_ATA_DC-DC_CONV Data Range: 0.000:20.400	Channel Type: HL ANALOG MUX Address: 83CF Connector-Pin: J11-63	
Provides indication of normal Sun Sensor 1 power supply function.			
Loss of Function: Flight software automatically switches to redundant sun sensor when SS function loss detected.			
Recommended Action: Issue commands to switch to SS2.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS sun presence bit in SCP TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 8.00000E-02	
A-0121	SS2_DC_CNV_V		AACS
Data Type: UNSIGNED # Bits: 8	Description: SS2_ATA_DC-DC_CONV Data Range: 0.000:20.400	Channel Type: HL ANALOG MUX Address: 8343 Connector-Pin: J10-51	
Provides indication of normal SS2 power supply function.			
Loss of Function: Flight software automatically switches to redundant sun sensor when SS function loss is detected.			
Recommended Action: Issue commands to switch to SS1.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS sun presence bit in SCP TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 8.00000E-02	

EDF TELEMETRY

A-0122	SS1_ATA_I		AACS
Data Type: UNSIGNED # Bits: 8	Description: SS1_ATA_CURRENT Data Range: 0.000:66.810	Channel Type: HL ANALOG MUX Address: 82C3 Connector-Pin: J9-51	
Provides indication of the amount of Sun illumination on selected Sun Sensor 1 detector. (ATA = Automatic Threshold Adjust).			
Loss of Function: Flight software automatically switches to redundant sun sensor.			
Recommended Action: Issue commands to switch to SS2.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS sun presence bit in SCP TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: uAMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.62000E-01	
A-0123	SS2_ATA_I		AACS
Data Type: UNSIGNED # Bits: 8	Description: SS2_ATA_CURRENT Data Range: 0.000:66.810	Channel Type: HL ANALOG MUX Address: 8398 Connector-Pin: J11-24	
Provides indication of the amount of Sun illumination on selected Sun Sensor 2 detector. ATA = Automatic Threshold Adjust.			
Loss of Function: Flight software automatically switches to redundant sun sensor.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS sun presence bit in SCP TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: uAMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.62000E-01	

EDF TELEMETRY

A-0130	IMU_XA-Z2_TQ		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_XA-Z2_TORQUER_I Data Range:	Channel Type: HL ANALOG MUX Address: 82CC Connector-Pin: J9-60	
Provides measurement of gyro 2(Z axis)(HI X axis; channel A) torquer current. Used to diagnose health/status of gyro. Reading will be mid range (near 2.5 volts) for low rotation rates and upper and lower range for high rotation rates (approx. 0 volts for direction 1 or approx. 5 volts for direction 2).			
Loss of Function: Flight software automatically switches to redundant gyro if function is lost.			
Recommended Action: None			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS gyro-derived rates in SCP TLM.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: ON CCL Param: 0		
A-0131	IMU_XB-Z3_TQ		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_XB-Z3_TORQUER_I Data Range:	Channel Type: HL ANALOG MUX Address: 83C2 Connector-Pin: J11-50	
Provides measurement of gyro 3(Z axis)(HI X axis; channel B) torquer current. Used to diagnose health/status of gyro. Reading will be mid range (near 2.5 volts) for low rotation rates and upper and lower range for high rotation rates (approx. 0 volts for direction 1 or approx. 5 volts for direction 2).			
Loss of Function: Flight software automatically switches to redundant gyro if function is lost.			
Recommended Action: None			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS gyro-derived rates in TLM.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: ON CCL Param: 0		

EDF TELEMETRY

A-0132	IMU_YA-X1_TQ		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_YA-X1_TORQUER_I Data Range:	Channel Type: HL ANALOG MUX Address: 83C4 Connector-Pin: J11-52	
Provides measurement of gyro 1(X axis) (HI Y axis; channel A) torquer current. Used to diagnose health/status of gyro. Reading will be mid range (near 2.5 volts) for low rotation rates and upper and lower range for high rotation rates (approx. 0 volts for direction 1 or approx. 5 volts for direction 2).			
Loss of Function: Flight software automatically switches to redundant gyro if function is lost.			
Recommended Action: None			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS gyro-derived rates in SCP TLM.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: ON CCL Param: 0		
A-0133	IMU_YB-X3_TQ		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_YB-X3_TORQUER_I Data Range:	Channel Type: HL ANALOG MUX Address: 8297 Connector-Pin: J9-23	
Provides measurement of gyro 3(X axis)(HI Y axis; channel B) torquer current. Used to diagnose health/status of gyro. Reading will be mid range (near 2.5 volts) for low rotation rates and upper and lower range for high rotation rates (approx. 0 volts for direction 1 or approx. 5 volts for direction 2).			
Loss of Function: Flight software automatically switches to redundant gyro if function is lost.			
Recommended Action: None			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS gyro-derived rates in SCP TLM.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: ON CCL Param: 0		

EDF TELEMETRY

A-0134	IMU_ZA+Y1_TQ		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_ZA+Y1_TORQUER_I Data Range:	Channel Type: HL ANALOG MUX Address: 8348 Connector-Pin: J10-56	
Provides measurement of gyro 1(Y axis)(HI Z axis; channel A) torquer current. Used to diagnose health/status of gyro. Reading will be mid range (near 2.5 volts) for low rotation rates and upper and lower range for high rotation rates (approx. 0 volts for direction 1 or approx. 5 volts for direction 2).			
Loss of Function: Flight software automatically switches to redundant gyro if function is lost.			
Recommended Action: None			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS gyro-derived rates in SCP TLM.			
A-0135	IMU_ZB+Y2_TQ		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_ZB+Y2_TORQUER_I Data Range:	Channel Type: HL ANALOG MUX Address: 83CA Connector-Pin: J11-58	
Provides measurement of gyro 2(Y axis)(HI Z axis; channel B) torquer current. Used to diagnose health status of gyro. Reading will be mid range (near 2.5 volts) for low rotation rates and upper and lower range for high rotation rates (approx. 0 volts for direction 1 or approx. 5 volts for direction 2).			
Loss of Function: Flight software automatically switches to redundant gyro if function is lost.			
Recommended Action: None			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS gyro-derived rates in SCP TLM.			
A-0136	IMU_ZC+Y3_TQ		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_ZC+Y3_TORQUER_I Data Range:	Channel Type: HL ANALOG MUX Address: 83CB Connector-Pin: J12-58	
Provides measurement of gyro 3(Y axis)(HI Z axis; channel C) torquer current. Used to diagnose health status of gyro. Reading will be mid range (near 2.5 volts) for low rotation rates and upper and lower range for high rotation rates (approx. 0 volts for direction 1 or approx. 5 volts for direction 2).			
Loss of Function: Flight software automatically switches to redundant gyro if function is lost.			
Recommended Action: None			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS gyro-derived rates in SCP TLM.			
A-0137	IMU_ZD+Y4_TQ		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_ZD+Y4_TORQUER_I Data Range:	Channel Type: HL ANALOG MUX Address: 83CD Connector-Pin: J13-58	
Provides measurement of gyro 4(Y axis)(HI Z axis; channel D) torquer current. Used to diagnose health status of gyro. Reading will be mid range (near 2.5 volts) for low rotation rates and upper and lower range for high rotation rates (approx. 0 volts for direction 1 or approx. 5 volts for direction 2).			
Loss of Function: Flight software automatically switches to redundant gyro if function is lost.			
Recommended Action: None			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS gyro-derived rates in SCP TLM.			
A-0138	IMU_ZE+Y5_TQ		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_ZE+Y5_TORQUER_I Data Range:	Channel Type: HL ANALOG MUX Address: 83CE Connector-Pin: J14-58	
Provides measurement of gyro 5(Y axis)(HI Z axis; channel E) torquer current. Used to diagnose health status of gyro. Reading will be mid range (near 2.5 volts) for low rotation rates and upper and lower range for high rotation rates (approx. 0 volts for direction 1 or approx. 5 volts for direction 2).			
Loss of Function: Flight software automatically switches to redundant gyro if function is lost.			
Recommended Action: None			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS gyro-derived rates in SCP TLM.			

EDF TELEMETRY

A-0136	IMU_+10_DC_V		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_+10_VOLTS_DC Data Range: 0.000:11.184	Channel Type: HL ANALOG MUX Address: 8241 Connector-Pin: J8-34	
Provides indication of +10V IMU power supply status.			
Loss of Function: Flight software automatically switches to redundant supply if function is lost.			
Recommended Action: Issue command to alternate IMU DC supply; if failure verified.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS DC Power Supply bits in IMU status word SCP TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 4.38596E-02	
A-0137	IMU_+15_DC_V		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_+15_VOLTS_DC Data Range: 0.000:16.740	Channel Type: HL ANALOG MUX Address: 8290 Connector-Pin: J9-16	
Provides indication of +15V IMU power supply status.			
Loss of Function: Flight software automatically switches to redundant supply if function is lost.			
Recommended Action: Issue command to alternate IMU DC supply; if failure verified.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS DC Power Supply bits in IMU status word SCP TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 6.56455E-02	

EDF TELEMETRY

A-0138	IMU_-15_DC_V		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_-15_VOLTS_DC Data Range: -16.887:0.000	Channel Type: HL ANALOG MUX Address: 8310 Connector-Pin: J10-16	
Provides indication of -15V power supply status.			
Loss of Function: Flight software automatically switches to redundant supply if function is lost.			
Recommended Action: Issue command to alternate IMU DC supply; if failure verified.			
Impact of Loss of Tlm: Loss of monitoring capability only.			
Alternate Telemetry: None. Related Measurements: Check AACs DC Power Supply bits in IMU status and SCP TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = -6.62252E-02	
A-0139	IMU_TCA_PR_V		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_TCA_PRI_VOLTGE Data Range: 0.000:26.863	Channel Type: HL ANALOG MUX Address: 8390 Connector-Pin: J11-16	
Provides measurement of Primary TCA voltage which indicates how much heat is being provided to the IMU heaters.			
Loss of Function: IMU temperature will deviate from nominal. Backup TCA will control IMU temperature once commanded.			
Recommended Action: Issue command to alternate TCA; if failure verified.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACs.			
Alternate Telemetry: None. Related Measurements: Check IMU block temperature TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.05344E-01	

EDF TELEMETRY

A-0140	IMU_TCA_BU_V		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_TCA_BU_VOLTGE Data Range: 0.000:26.878	Channel Type: HL ANALOG MUX Address: 8341 Connector-Pin: J10-49	
Provides measurement of Backup TCA voltage which indicates how much heat is being provided to the IMU heaters.			
Loss of Function: IMU temperature will deviate from nominal; primary TCA will control IMU temperature once commanded.			
Recommended Action: Issue command to alternate TCA; if failure verified.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: A-0901. Related Measurements: Check IMU block temperature TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.05403E-01	
A-0141	IMU_PR_AC_V		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_PRI_AC_PWR_SUP_MON Data Range: 0.000:8.022	Channel Type: HL ANALOG MUX Address: 8245 Connector-Pin: J8-38	
Provides indication of IMU Primary AC power function.			
Loss of Function: Flight software automatically switches to redundant supply if function is lost.			
Recommended Action: Issue command to alternate IMU AC supply; if failure verified.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS AC Power Supply bits in IMU status word TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.14607E-02	

EDF TELEMETRY

A-0142	IMU_BU_AC_V		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_BU_AC_PWR_SUP_MON Data Range: 0.000:7.951	Channel Type: HL ANALOG MUX Address: 83CE Connector-Pin: J11-62	
Provides indication of IMU Backup AC power supply function.			
Loss of Function: Flight software automatically switches to redundant supply if function is lost.			
Recommended Action: Issue command to alternate IMU AC supply; if failure verified.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS DC Power Supply bits in IMU status word TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.11804E-02	
A-0143	IMU_PR_DC_V		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_PRI_DC_PWR_SUP_MON Data Range: 0.000:8.416	Channel Type: HL ANALOG MUX Address: 8345 Connector-Pin: J10-53	
Provides indication of IMU Primary DC power supply function.			
Loss of Function: Flight software automatically switches to redundant supply if function is lost.			
Recommended Action: Issue command to alternate IMU DC supply; if failure verified.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS DC Power Supply bits in IMU status word TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.30043E-02	

EDF TELEMETRY

A-0144	IMU_BU_DC_V		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_BU_DC_PWR_SUP_MON Data Range: 0.000:8.408	Channel Type: HL ANALOG MUX Address: 83CC Connector-Pin: J11-60	
Provides indication of IMU Primary DC power supply function.			
Loss of Function: Flight software automatically switches to redundant supply if function is lost.			
Recommended Action: Issue command to alternate IMU DC supply; if failure verified.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS DC Power Supply bits in IMU status word TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.29741E-02	
A-0150	SPMTR_PH_A_V		AACS
Data Type: UNSIGNED # Bits: 8	Description: SPIN_MTR_A_PHS_TLM Data Range: 0.000:60.042	Channel Type: HL ANALOG MUX Address: 8308 Connector-Pin: J10-8	
Provides indication of spin motor power supply phase A status.			
Loss of Function: Flight software automatically switches to redundant gyro if function is lost.			
Recommended Action: Issue command to alternate IMU AC supply; if failure verified.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS spin motor bits in IMU status word SCP TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.35457E-01	

EDF TELEMETRY

A-0151	SPMTR_PH_B_V	AACS
Data Type: UNSIGNED # Bits: 8	Description: SPIN_MTR_B_PHS_TLM Data Range: 0.000:60.042	Channel Type: HL ANALOG MUX Address: 8388 Connector-Pin: J11-8
Provides indication of spin motor power supply phase B status.		
Loss of Function: Flight software automatically switches to redundant gyro if function is lost.		
Recommended Action: Issue command to alternate IMU AC supply; if failure verified.		
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.		
Alternate Telemetry: None. Related Measurements: Check AACS spin motor bits in IMU status word SCP TLM.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.35457E-01
A-0152	SPMTR_PH_C_V	AACS
Data Type: UNSIGNED # Bits: 8	Description: SPIN_MTR_C_PHS_TLM Data Range: 0.000:60.042	Channel Type: HL ANALOG MUX Address: 82C0 Connector-Pin: J9-48
Provides indication of spin motor power supply phase C status.		
Loss of Function: Flight software automatically switches to redundant power supply if function is lost.		
Recommended Action: Issue command to alternate IMU AC supply; if failure verified.		
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.		
Alternate Telemetry: None. Related Measurements: Check AACS spin motor bits in IMU status word SCP TLM.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.35457E-01

EDF TELEMETRY

A-0160	GYRO1_MTR_I		AACS
Data Type: UNSIGNED # Bits: 8	Description: GYRO_1_MOTOR_CURRENT Data Range: 0.000:255.000	Channel Type: HL ANALOG MUX Address: 8344 Connector-Pin: J10-52	
Provides measurement of gyro 1 spin motor current. Used to diagnose health/status of gyro 1. Initial turn-on produces high current reading, steady state is 65 mA nominal.			
Loss of Function: Flight software automatically switches to redundant gyro if function is lost.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS IMU status word spin motor bits TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: mAMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.00000E+00	
A-0161	GYRO2_MTR_I		AACS
Data Type: UNSIGNED # Bits: 8	Description: GYRO_2_MOTOR_CURRENT Data Range: 0.000:255.000	Channel Type: HL ANALOG MUX Address: 82CB Connector-Pin: J9-59	
Provides measurement of gyro 2 spin motor current. Used to diagnose health/status of gyro 2. Initial turn-on produces high current reading, steady state is 65 mA nominal.			
Loss of Function: Flight software automatically switches to redundant gyro if function is lost.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS IMU status word spin motor bits TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: mAMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.00000E+00	

EDF TELEMETRY

A-0162	GYRO3_MTR_I		AACS
Data Type: UNSIGNED # Bits: 8	Description: GYRO_3_MOTOR_CURRENT Data Range: 0.000:255.000	Channel Type: HL ANALOG MUX Address: 83C5 Connector-Pin: J11-53	
Provides measurement of gyro 3 spin motor current. Used to diagnose health/status of gyro 3. Initial turn-on produces high current reading, steady state is 65 mA nominal.			
Loss of Function: Flight software automatically switches to redundant gyro if function is lost.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS IMU status word spin motor bits TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: mAMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.00000E+00	
A-0170	RWA_X_MTR_I		AACS
Data Type: UNSIGNED # Bits: 8	Description: RWA_X_MOTOR_CURRENT Data Range: 0.000:5.000	Channel Type: HL ANALOG MUX Address: 8240 Connector-Pin: J8-33	
X reaction wheel motor current.			
Loss of Function: Flight software automatically switches to redundant RWA configuration.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS Control errors; RWA torque command TLM in SCP TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.96078E-02	

EDF TELEMETRY

A-0171	RWA_Y_MTR_I	AACS
Data Type: UNSIGNED # Bits: 8	Description: RWA_Y_MOTOR_CURRENT Data Range: 0.000:5.000	Channel Type: HL ANALOG MUX Address: 8280 Connector-Pin: J9-128
Y reaction wheel motor current.		
Loss of Function: Flight software automatically switches to redundant RWA configuration.		
Recommended Action: None.		
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.		
Alternate Telemetry: None.		
Related Measurements: Check AACS Control errors; RWA torque command TLM in SCP TLM.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.96078E-02
A-0172	RWA_Z_MTR_I	AACS
Data Type: UNSIGNED # Bits: 8	Description: RWA_Z_MOTOR_CURRENT Data Range: 0.000:5.000	Channel Type: HL ANALOG MUX Address: 8300 Connector-Pin: J10-128
Z reaction wheel motor current.		
Loss of Function: Flight software automatically switches to redundant RWA configuration.		
Recommended Action: None.		
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.		
Alternate Telemetry: None.		
Related Measurements: Check AACS Control errors; RWA torque command TLM in SCP TLM.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.96078E-02

EDF TELEMETRY

A-0173	RWA_S_MTR_I	AACS
Data Type: UNSIGNED # Bits: 8	Description: RWA_S_MOTOR_CURRENT Data Range: 0.000:5.000	Channel Type: HL ANALOG MUX Address: 8380 Connector-Pin: J11-128
Skew reaction wheel motor current.		
Loss of Function: Flight software automatically switches to redundant RWA configuration.		
Recommended Action: None.		
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.		
Alternate Telemetry: None. Related Measurements: Check AACS Control errors; RWA torque command TLM in SCP TLM.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.96078E-02
A-0180	ACCEL_-X	AACS
Data Type: UNSIGNED # Bits: 8	Description: ACCELRATION_X Data Range: -1.372:1.281	Channel Type: HL ANALOG MUX Address: 83C1 Connector-Pin: J11-49
Provides measurement of X axis accelerometer (HI Y axis) torquer current which is proportional to g-force. Used to diagnose health/status of accelerometer. Normally near 0.0 g. During maneuvers will indicate up to 0.1 g.		
Loss of Function: Maneuver cutoff timing will be inaccurate.		
Recommended Action: Use skew accelerometer configuration for maneuver.		
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.		
Alternate Telemetry: None. Related Measurements: Check AACS accelerometer-derived delta-V in SCP TLM.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Gs CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.28092E+00 n1 = -1.04046E-02

EDF TELEMETRY

A-0181	ACCEL_-Y		AACS
Data Type: UNSIGNED # Bits: 8	Description: ACCELERATION_-Y Data Range: -1.372:1.281	Channel Type: HL ANALOG MUX Address: 8248 Connector-Pin: J8-41	
Provides measurement of Y axis accelerometer (HI Z axis) torquer current which is proportional to g-force. Used to diagnose health/status of accelerometer. Normally near 0.0 g. During maneuvering will read up to 0.1 g.			
Loss of Function: Maneuver cutoff timing will be inaccurate.			
Recommended Action: Use skew accelerometer configuration for maneuver.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS accelerometer-derived delta-V in SCP TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Gs CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.28092E+00 n1 = -1.04046E-02	
A-0182	ACCEL_+Z		AACS
Data Type: UNSIGNED # Bits: 8	Description: ACCELERATION_+Z Data Range: -1.372:1.281	Channel Type: HL ANALOG MUX Address: 82CF Connector-Pin: J9-63	
Provides measurement of Z axis accelerometer (HI X axis) torquer current which is proportional to g-force. Used to diagnose health/status of accelerometer. Normally will be near zero. During maneuver will indicate up to 0.19 g.			
Loss of Function: Maneuver cutoff timing will be inaccurate. Non-critical loss in performance.			
Recommended Action: Use primary accelerometer configuration.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS accelerometer-derived delta-V in SCP TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Gs CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.28092E+00 n1 = -1.04046E-02	

EDF TELEMETRY

A-0183	ACCEL_+S		AACS
Data Type: UNSIGNED # Bits: 8	Description: ACCELERATION_+S Data Range: -1372:1281	Channel Type: HL ANALOG MUX Address: 8327 Connector-Pin: J10-39	
Provides a measurement of skew accelerometer torquer current which is proportional to g-force. Used to diagnose health/status of accelerometer. Normally will be near zero. During maneuvers will indicate up to 0.19 g.			
Loss of Function: Maneuver cutoff timing will be inaccurate. Non-critical loss in performance.			
Recommended Action: Use primary accelerometer configuration.			
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.			
Alternate Telemetry: None. Related Measurements: Check AACS accelerometer-derived delta-V in SCP TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Gs CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.28092E+00 n1 = -1.04046E-02	
C-0001	CIU_BUS_SLCT		CDH
Data Type: STATUS # Bits: 1	Description: CIU_BUS_SELECTED Data Range:	Channel Type: DISCRETE MUX Address: 8119-5 Connector-Pin: J12-25	
Indicates CIU Selected Bus A or B.			
Loss of Function: Loss of B Bus or A Bus.			
Recommended Action: Switch to other bus.			
Impact of Loss of Tlm: None.			
Alternate Telemetry: None. Related Measurements: F-1525 (CIUFL_IO_X)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BUS_B 1 = BUS_A	

EDF TELEMETRY

C-0002	CIU_CNTR_SCP		CDH
Data Type: STATUS # Bits: 1	Description: CIU_SCP_IN_CONTROL Data Range:	Channel Type: DISCRETE MUX Address: 811B-7 Connector-Pin: J12-91	
Indicates which SCP is in control.			
Loss of Function: Loss of control SCP.			
Recommended Action: Switch SCPs. Impact of Loss of Tlm: None Alternate Telemetry: None. Related Measurements: SCP TLM for which SCP is in control. F-1528 (CIUFL_MEcntl); F-1530 (CIUFL_MEok); F-1524 (CIUFL_HEcntl)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SCP2_CTL 1 = SCP1_CTL	
C-0003	CIU_DESR_BUS		CDH
Data Type: STATUS # Bits: 1	Description: CIU_DESIRED_BUS: Data Range:	Channel Type: DISCRETE MUX Address: 8103-8 Connector-Pin: J12-99	
Indicates desired bus for control SCP.			
Loss of Function: Loss of capability to command selection of I/O Bus A or B.			
Recommended Action: None. Impact of Loss of Tlm: None. Alternate Telemetry: None. Related Measurements: SCP to EDF TLM. F-1535 (CIUFL_DESR_B)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BUS_B 1 = BUS_A	

EDF TELEMETRY

C-0004	CIU_IO_X_ST		CDH
Data Type: STATUS # Bits: 1	Description: CIU_IO_CROSSTATE Data Range:	Channel Type: DISCRETE MUX Address: 811B-3 Connector-Pin: J7-91	
Indicates which bus CIU is using for which SCP.			
Loss of Function: Loss of SCP.			
Recommended Action: Switch SCPs. Impact of Loss of Tlm: None (SCP will choose bus). Alternate Telemetry: None. Related Measurements: SCP to EDF TLM.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 1/A-2/B 1 = 2/A-1/B	
C-0005	CIU_RXO_SLCT		CDH
Data Type: STATUS # Bits: 1	Description: CIU_RXO_SELECTED Data Range:	Channel Type: DISCRETE MUX Address: 8119-8 Connector-Pin: J12-121	
Indicates CIU selection of redundant oscillators, primary or backup.			
Loss of Function: Loss of capability to command selection of RXO.			
Recommended Action: None. Impact of Loss of Tlm: None. RXO autonomously selects good side. Alternate Telemetry: None. Related Measurements: C-0029 (RXO_MODE_STA)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = PRIMARY 1 = BACK_UP	

EDF TELEMETRY

C-0006	CIU_SCPI_NOK		CDH
Data Type: STATUS # Bits: 1	Description: CIU_SCPI_OK_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 811B-5 Connector-Pin: J12-27	
Indicates if SCP 1 is OK.			
Loss of Function: Loss of SCP 1.			
Recommended Action: Put SCP 2 in control (done autonomously)			
Impact of Loss of Tlm: Cannot verify SCP 1 OK.			
Alternate Telemetry: None. Related Measurements: SCP to EDF telemetry. F-1530 (CIUFL_MEok), F-1531 (CIUFL_HEok)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = NOT_OK	
C-0007	CIU_SCPI2_NOK		CDH
Data Type: STATUS # Bits: 1	Description: CIU_SCPI2_OK_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 811B-1 Connector-Pin: J7-27	
Indicates if SCP 2 is OK.			
Loss of Function: Loss of SCP 2.			
Recommended Action: Put SCP 1 in control (done autonomously)			
Impact of Loss of Tlm: Cannot verify SCP 2 OK.			
Alternate Telemetry: None. Related Measurements: SCP to EDF telemetry. F-1530 (CIUFL_MEok), F-1531 (CIUFL_HEok)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = NOT_OK	

EDF TELEMETRY

C-0008	CIU_CLOCK_SL		CDH
Data Type: STATUS # Bits: 1	Description: CIU_CLOCK_SELECT Data Range:	Channel Type: DISCRETE MUX Address: 8102-8 Connector-Pin: J12-98	
Indicates CIU selected clock 1 or 2.			
Loss of Function: None (Redundant within CIU).			
Recommended Action: Monitor CIU performance.			
Impact of Loss of Tlm: None.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = CLOCK_2 1 = CLOCK_1	
C-0009	CIX_BUS_SLCT		CDH
Data Type: STATUS # Bits: 1	Description: CIX_BUS_SELECT Data Range:	Channel Type: DISCRETE MUX Address: 811A-6 Connector-Pin: J12-58	
Indicates which bus the CIX is on.			
Loss of Function: Loss of A or B Bus.			
Recommended Action: Switch to other bus.			
Impact of Loss of Tlm: None.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BUS_B 1 = BUS_A	

EDF TELEMETRY

C-0010	CIX_IO_X_ST		CDH
Data Type: STATUS # Bits: 1	Description: CIX_IO_CROSSTATE Data Range:	Channel Type: DISCRETE MUX Address: 8119-2 Connector-Pin: J7-57	
Indicates which bus the CIX is using for which SCP.			
Loss of Function: Loss of SCP.			
Recommended Action: Switch SCPs.			
Impact of Loss of Tlm: None (SCP will choose bus).			
Alternate Telemetry: None. Related Measurements: SCP to EDF TLM.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 1/A-2/B 1 = 2/A-1/B	
C-0011	EDF_SIDE1_ST		CDH
Data Type: STATUS # Bits: 1	Description: EDF_SIDE_1_POWER Data Range:	Channel Type: DISCRETE MUX Address: 8119-3 Connector-Pin: J7-89	
Indicates whether EDF side 1 is powered.			
Loss of Function: Loss of EDF side 1.			
Recommended Action: Use EDF side 2.			
Impact of Loss of Tlm: None. Can get data from SCP.			
Alternate Telemetry: None. Related Measurements: SCP to EDF1 data, F-1340 (RDM_SIDE_EDF)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = OFF 1 = ON	

EDF TELEMETRY

C-0012	EDF_SIDE2_ST		CDH
Data Type: STATUS # Bits: 1	Description: EDF_SIDE_2_POWER Data Range:	Channel Type: DISCRETE MUX Address: 811A-8 Connector-Pin: J12-122	
Indicates whether EDF side 2 is powered.			
Loss of Function: Loss of EDF side 2.			
Recommended Action: Use EDF side 1.			
Impact of Loss of Tlm: None			
Alternate Telemetry: None. Related Measurements: SCP to EDF2 data, F-1340 (RDM_SIDE_EDF)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = OFF 1 = ON	
C-0013	M_PHASE_R1S1		CDH
Data Type: STATUS # Bits: 1	Description: MISSION_PH_REL_1_SCPI Data Range:	Channel Type: DISCRETE MUX Address: 8100-6 Connector-Pin: J12-32	
Indicates ground setting of safe mode mission phase relay 1 for SCP 1.			
Loss of Function: Must have SCP2 in control if current mission phase relays for control SCPI are wrong for mission phase.			
Recommended Action: Switch control to SCP2.			
Impact of Loss of Tlm: Must verify software read of these relays.			
Alternate Telemetry: F-1096 (M_PHASE_BUFF) Related Measurements: SCP to EDF dump of 903 buffer.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	

EDF TELEMETRY

C-0014	M_PHASE_R1S2	CDH
Data Type: STATUS # Bits: 1	Description: MISSION_PH_REL_1_SCPI Data Range:	Channel Type: DISCRETE MUX Address: 8100-2 Connector-Pin: J7-32
Indicates ground setting of safe mode mission phase relay 1 for SCP 2.		
Loss of Function: Must have SCP1 in control if current mission phase relays for control SCP2 are wrong for mission phase.		
Recommended Action: Switch control to SCP1.		
Impact of Loss of Tlm: Must verify software read of these relays.		
Alternate Telemetry: F-1096 (M_PHASE_BUFF) Related Measurements: SCP to EDF dump of 903 buffer.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
C-0015	M_PHASE_R2S1	CDH
Data Type: STATUS # Bits: 1	Description: MISSION_PH_REL_2_SCPI Data Range:	Channel Type: DISCRETE MUX Address: 8100-8 Connector-Pin: J12-96
Indicates ground setting of safe mode mission phase relay 2 for SCP 1.		
Loss of Function: Must have SCP2 in control if current mission phase relays for control SCP1 are wrong for mission phase.		
Recommended Action: Switch control to SCP2.		
Impact of Loss of Tlm: Must verify software read of these relays.		
Alternate Telemetry: F-1096 (M_PHASE_BUFF) Related Measurements: SCP to EDF dump of 903 buffer.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET

EDF TELEMETRY

C-0016	M_PHASE_R2S2	CDH
Data Type: STATUS # Bits: 1	Description: MISSION_PH_REL_2_SCPI Data Range:	Channel Type: DISCRETE MUX Address: 8100-3 Connector-Pin: J7-64
Indicates ground setting of safe mode mission phase relay 2 for SCP 2.		
Loss of Function: Must have SCP1 in control if current mission phase relays for control SCP2 are wrong for mission phase.		
Recommended Action: Switch control to SCP1.		
Impact of Loss of Tlm: Must verify software read of these relays.		
Alternate Telemetry: F-1096 (M_PHASE_BUFF) Related Measurements: SCP to EDF dump of 903 buffer.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
C-0017	M_PHASE_R3S1	CDH
Data Type: STATUS # Bits: 1	Description: MISSION_PH_REL_3_SCPI Data Range:	Channel Type: DISCRETE MUX Address: 8100-7 Connector-Pin: J12-64
Indicates ground setting of safe mode mission phase relay 3 for SCP 1.		
Loss of Function: Must have SCP2 in control if current mission phase relays for control SCP1 are wrong for mission phase.		
Recommended Action: Switch control to SCP2.		
Impact of Loss of Tlm: Must verify software read of these relays.		
Alternate Telemetry: F-1096 (M_PHASE_BUFF) Related Measurements: SCP to EDF dump of 903 buffer.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = RESET 1 = SET

EDF TELEMETRY

C-0018	M_PHASE_R3S2	CDH
Data Type: STATUS # Bits: 1	Description: MISSION_PH_REL_3_SCP2 Data Range:	Channel Type: DISCRETE MUX Address: 8100-4 Connector-Pin: J7-96
Indicates ground setting of safe mode mission phase relay 3 for SCP 2.		
Loss of Function: Must have SCP1 in control if current mission phase relays for control SCP2 are wrong for mission phase.		
Recommended Action: Switch control to SCP1.		
Impact of Loss of Tlm: Must verify software read of these relays.		
Alternate Telemetry: F-1096 (M_PHASE_BUFF) Related Measurements: SCP to EDF dump of 903 buffer.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = RESET 1 = SET
C-0020	MOTCROSS	CDH
Data Type: STATUS # Bits: 1	Description: XSU_SERL_MOT_STATE Data Range:	Channel Type: SERIAL MUX Address: 8060-1 Connector-Pin: J5-5
Indicates whether XSU output to MOT is normal (XSU1 to MOT1, XSU2 to MOT2) or cross-strapped (XSU1 to MOT2, XSU2 to MOT1).		
Loss of Function: Inability to link downlink data with MOT results in loss of capability transmit data from spacecraft.		
Recommended Action: Select other MOT connection through available XSU side (Switch to redundant XSU).		
Impact of Loss of Tlm: Cannot determine whether MOT data is coming from XSU1 or XSU2.		
Alternate Telemetry: None. Related Measurements: If there is a modulated downlink, then can infer crossed/uncrossed state by which XSU is being used.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = UNCROSSED 1 = CROSSED

EDF TELEMETRY

C-0022	PDS_A_OK		CDH
Data Type: STATUS # Bits: 1	Description: PDS_SUBSYSTEM_A_OK Data Range:	Channel Type: DISCRETE MUX Address: 8103-1 Connector-Pin: J7-3	
Indicates summary status of PDS processor function.			
Loss of Function: Loss of PDS A.			
Recommended Action: Switch to PDS B. Impact of Loss of Tlm: Inability to monitor PDS operation from ENGR Packet, inability to autonomously switch to ENGR mode in the event of PDS on-line failure. Alternate Telemetry: None. Related Measurements: PDS source Packet.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_OK 1 = OK	
C-0023	PDS_B_OK		CDH
Data Type: STATUS # Bits: 1	Description: PDS_SUBSYSTEM_B_OK Data Range:	Channel Type: DISCRETE MUX Address: 8103-5 Connector-Pin: J12-3	
Indicates summary status of PDS processor function.			
Loss of Function: Loss of PDS B.			
Recommended Action: Switch to PDS A. Impact of Loss of Tlm: Inability to monitor PDS operation from ENGR Packet, inability to autonomously switch to ENGR mode in the event of PDS on-line failure. Alternate Telemetry: None. Related Measurements: PDS source Packet.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_OK 1 = OK	

EDF TELEMETRY

C-0024	PDS_A_PWR		CDH
Data Type: STATUS # Bits: 1	Description: PDS_POWER_A_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810C-8 Connector-Pin: J12-108	
Indicates if main 28 volt power to side A is on/off.			
Loss of Function: Loss of PDS A.			
Recommended Action: Switch to side B.			
Impact of Loss of Tlm: Unable to directly verify application of side A; instrument main power, PDS thermistor will provide some information.			
Alternate Telemetry: T-0120 (PDS_BOX_T)			
Related Measurements: Must examine PDS source packet contents to determine if side A is on.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF	
C-0025	PDS_B_PWR		CDH
Data Type: STATUS # Bits: 1	Description: PDS_POWER_B_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810C-1 Connector-Pin: J7-12	
Indicates if main 28 volt power to side B is on/off.			
Loss of Function: Loss of PDS B.			
Recommended Action: Switch to side A.			
Impact of Loss of Tlm: Unable to directly verify application of side B instrument main power, PDS thermistor will provide some information.			
Alternate Telemetry: T-0120 (PDS_BOX_T)			
Related Measurements: Must examine PDS source packet contents to determine if side B is on/off.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF	

EDF TELEMETRY

C-0029	RXO_MODE_STA		CDH
Data Type: STATUS # Bits: 1	Description: RXO_OSC_MODE_STATS Data Range:	Channel Type: DISCRETE MUX Address: 811A-5 Connector-Pin: J12-26	
Indicates whether the RXO outputs are being provided by the primary or backup oscillator.			
Loss of Function: Loss of RXO redundancy.			
Recommended Action: None. RXO autonomously selects functioning side.			
Impact of Loss of Tlm: None.			
Alternate Telemetry: None. Related Measurements: C-0005 (CIU_RXO_SLCT)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = PRIMARY 1 = BACK_UP	
C-0030	SCP1_ALO_ERR		CDH
Data Type: STATUS # Bits: 1	Description: SCP1_AT_LEAST_1_ERROR Data Range:	Channel Type: DISCRETE MUX Address: 811A-7 Connector-Pin: J12-90	
Indicates at least one error in SCP 1 memory.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm: None.			
Alternate Telemetry: None. Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ERROR 1 = NO_ERROR	

EDF TELEMETRY

C-0031	SCP2_ALO_ERR		CDH
Data Type: STATUS # Bits: 1	Description: SCP2_AT_LEAST_1_ERROR Data Range:	Channel Type: DISCRETE MUX Address: 811A-4 Connector-Pin: J7-122	
Indicates at least one error in SCP 2 memory.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm: None.			
Alternate Telemetry: None.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ERROR 1 = NO_ERROR	
C-0032	SCP1_NRM_SWP		CDH
Data Type: STATUS # Bits: 1	Description: SCP1_NORMAL_OR_SWAP Data Range:	Channel Type: DISCRETE MUX Address: 811A-1 Connector-Pin: J7-26	
Indicates the memory address configuration of blocks 0 and 4 in SCP 1.			
Loss of Function: Possible loss of SCP1.			
Recommended Action: Monitor SCP1 performance. If needed, use SCP2.			
Impact of Loss of Tlm: Lose capability to diagnose bad SCP RAM.			
Alternate Telemetry: None.			
Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SWAP 1 = NORMAL	

EDF TELEMETRY

C-0033	SCP2_NRM_SWP		CDH
Data Type: STATUS # Bits: 1	Description: SCP2_NORMAL_OR_SWAP Data Range:	Channel Type: DISCRETE MUX Address: 811A-2 Connector-Pin: J7-58	
Indicates the memory address configuration of blocks 0 and 4 in SCP 2.			
Loss of Function: Possible loss of SCP2.			
Recommended Action: Monitor SCP2 performance. If needed, use SCP1.			
Impact of Loss of Tlm: Lose capability to diagnose bad SCP RAM.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SWAP 1 = NORMAL	
C-0034	SCU1SCPK1_ST		CDH
Data Type: STATUS # Bits: 1	Description: SCU1_SELECTED_SCPI Data Range:	Channel Type: DISCRETE MUX Address: 810A-8 Connector-Pin: J12-106	
Indicates SCU1 power relay state for K1.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm: None if SCP is functionally verified.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF	

EDF TELEMETRY

C-0035	SCU1SCPK2_ST		CDH
Data Type: STATUS # Bits: 1	Description: SCU1_SELECTED_SCP2 Data Range:	Channel Type: DISCRETE MUX Address: 810A-4 Connector-Pin: J7-106	
Indicates SCU1 power relay state for K2.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm: None if SCP is functionally verified.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF	
C-0036	SCU2SCPK1_ST		CDH
Data Type: STATUS # Bits: 1	Description: SCU2_SELECTED_SCP1 Data Range:	Channel Type: DISCRETE MUX Address: 810A-5 Connector-Pin: J12-10	
Indicates SCU2 power relay state for K1.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm: None if SCP is functionally verified.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF	

EDF TELEMETRY

C-0037	SCU2SCPK2_ST		CDH
Data Type: STATUS # Bits: 1	Description: SCU2_SELECTED_SCP2 Data Range:	Channel Type: DISCRETE MUX Address: 810A-1 Connector-Pin: J7-10	
Indicates SCU2 power relay state for K2.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm: None if SCP is functionally verified.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF	
C-0040	SSR_1A_CLOCK		CDH
Data Type: STATUS # Bits: 4	Description: SSR_1A_CLOCK Data Range:	Channel Type: SERIAL MUX Address: 8060-5 Connector-Pin: J5-5	
Indicates S/C clock source provided to SSR 1A.			
Loss of Function: Loss of SSR 1A.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: None. Can't verify commanded clock.			
Alternate Telemetry: None.			
Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = EDF-2 1 = 85K_CLK 2 = S&E-1B 3 = 21K_CLK 4 = EDF-1 5 = 42K_CLK 6 = S&E-1A 7 = 8K_CLK	8 = invalid 9 = STANDBY 10 = invalid 10 = invalid 12 = invalid 13 = 32K_CLK 14 = invalid 15 = invalid

EDF TELEMETRY

C-0041	SSR_1A_MODE		CDH
Data Type: STATUS # Bits: 4	Description: SSR_1A_MODE Data Range:	Channel Type: SERIAL MUX Address: 8060-1 Connector-Pin: J5-5	
Indicates SSR 1A commanded mode.			
Loss of Function: Loss of SSR 1A.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: None. Can't verify commanded mode.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RECORD 1 = PLAYBACK 2 = IGNR_MAP 3 = REF_FAST 4 = CMD_BIT 5 = SCRUB_1PD 6 = LOW_PWR 7 = invalid	8 = SERIAL_TLM 9 = SCRUB_ASE 10 = ENA_SCRUB 10 = invalid 12 = CLR_PART 13 = REF_SLOW 14 = DIS_SCRUB 15 = invalid
C-0042	SSR_1A_PARTITION		CDH
Data Type: STATUS # Bits: 3	Description: SSR_1A_PARTITION Data Range:	Channel Type: SERIAL MUX Address: 8060-6 Connector-Pin: J5-5	
Indicates partition of last commanded activity.			
Loss of Function: Limited ability to select partitions.			
Recommended Action: Use remaining SSRs, unless multiple failures.			
Impact of Loss of Tlm: None.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = PARTN_1 1 = PARTN_5 2 = PARTN_3 3 = PARTN_7 4 = PARTN_2 5 = PARTN_6 6 = PARTN_4 7 = PARTN_8	

EDF TELEMETRY

C-0043	SSR_1A_PWR		CDH
Data Type: STATUS # Bits: 1	Description: SSR_1A_POWER Data Range:	Channel Type: DISCRETE MUX Address: 810A-7 Connector-Pin: J12-74	
Indicates on/off power state of SSR 1A.			
Loss of Function: Loss of SSR 1A.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: Can't verify SSR power state.			
Alternate Telemetry: C-0040, C-0041, C-0042, C-0044, C-0045, C-0046, C-0047, C-0048 Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF	
C-0044	SSR_1A_READY		CDH
Data Type: STATUS # Bits: 1	Description: SSR_1A_READY Data Range:	Channel Type: DISCRETE MUX Address: 8112-8 Connector-Pin: J12-114	
Indicates ready state to record or playback data.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO 1 = YES	

EDF TELEMETRY

C-0045	SSR_1A_EOM		CDH
Data Type: STATUS # Bits: 1	Description: SSR_1A_END_OF_MEM Data Range:	Channel Type: DISCRETE MUX Address: 8112-7 Connector-Pin: J12-82	
Indicates memory pointer is within 1024 bytes of end of memory.			
Loss of Function: N/A			
Recommended Action: N/A			
Impact of Loss of Tlm: Potential data loss on record.			
Alternate Telemetry: None. Related Measurements: SSR serial telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = YES 1 = NO	
C-0046	SSR_1A_EOP		CDH
Data Type: STATUS # Bits: 1	Description: SSR_1A_END_OF_PART Data Range:	Channel Type: DISCRETE MUX Address: 8112-6 Connector-Pin: J12-50	
Indicates memory pointer is within 1024 bytes of end of partition.			
Loss of Function: N/A			
Recommended Action: N/A			
Impact of Loss of Tlm: None.			
Alternate Telemetry: None. Related Measurements: SSR serial telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = YES 1 = NO	

EDF TELEMETRY

C-0047	SSR_1A_REOP		CDH
Data Type: STATUS # Bits: 1	Description: SSR_1A_RE_RECORD_EOP Data Range:	Channel Type: DISCRETE MUX Address: 8112-5 Connector-Pin: J12-18	
Indicates re-recording end of partition marker.			
Loss of Function: N/A			
Recommended Action: N/A			
Impact of Loss of Tlm: Potential data loss on record.			
Alternate Telemetry: None. Related Measurements: SSR serial telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = YES 1 = NO	
C-0048	SSR_1A_DENA		CDH
Data Type: STATUS # Bits: 1	Description: SSR_1A_DENA Data Range:	Channel Type: DISCRETE MUX Address: 8106-8 Connector-Pin: J12-102	
Indicates presence or absence of data enable command.			
Loss of Function: Loss of SSR 1A.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: None. Can't verify data enable.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLED 1 = DISABLED	

EDF TELEMETRY

C-0050	SSR_1B_CLOCK		CDH
Data Type: STATUS # Bits: 4	Description: SSR_1B_CLOCK Data Range:	Channel Type: SERIAL MUX Address: 8060-5 Connector-Pin: J5-5	
Indicates S/C clock source provided to SSR 1B.			
Loss of Function: Loss of SSR 1B.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: None. Can't verify commanded clock.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = EDF-2 1 = 85K_CLK 2 = S&E-1B 3 = 21K_CLK 4 = EDF-1 5 = 42K_CLK 6 = S&E-1A 7 = 8K_CLK	8 = invalid 9 = STANDBY 10 = invalid 10 = invalid 12 = invalid 13 = 32K_CLK 14 = invalid 15 = invalid
C-0051	SSR_1B_MODE		CDH
Data Type: STATUS # Bits: 4	Description: SSR_1B_MODE Data Range:	Channel Type: SERIAL MUX Address: 8060-1 Connector-Pin: J5-5	
Indicates SSR 1B commanded mode.			
Loss of Function: Loss of SSR 1B.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: None. Can't verify commanded mode.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RECORD 1 = PLAYBACK 2 = IGNR_MAP 3 = REF_FAST 4 = CMD_BIT 5 = SCRUB_IPD 6 = LOW_PWR 7 = invalid	8 = SERIAL_TLM 9 = SCRUB_ASE 10 = ENA_SCRUB 10 = invalid 12 = CLR_PART 13 = REF_SLOW 14 = DIS_SCRUB 15 = invalid

EDF TELEMETRY

C-0052	SSR_1B_PART		CDH
Data Type: STATUS # Bits: 3	Description: SSR_1B_PARTITION Data Range:	Channel Type: SERIAL MUX Address: 8060-6 Connector-Pin: J5-5	
Indicates partition of last commanded activity.			
Loss of Function: Limited ability to select partitions.			
Recommended Action: Use remaining SSRs, unless multiple failures.			
Impact of Loss of Tlm: None.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = PARTN_1 1 = PARTN_5 2 = PARTN_3 3 = PARTN_7 4 = PARTN_2 5 = PARTN_6 6 = PARTN_4 7 = PARTN_8	
C-0053	SSR_1B_PWR		CDH
Data Type: STATUS # Bits: 1	Description: SSR_1B_POWER Data Range:	Channel Type: DISCRETE MUX Address: 810A-3 Connector-Pin: J7-74	
Indicates on/off power state of SSR 1B.			
Loss of Function: Loss of SSR 1B.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: Can't verify SSR power state.			
Alternate Telemetry: C-0050, C-0051, C-0052, C-0054, C-0055, C-0056, C-0057, C-0058 Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF	

EDF TELEMETRY

C-0054	SSR_1B_READY		CDH			
Data Type: STATUS # Bits: 1	Description: SSR_IB_READY Data Range:	Channel Type: DISCRETE MUX Address: 8113-8 Connector-Pin: J12-115				
Indicates ready state to record or playback data.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = NO 1 = YES </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO 1 = YES
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO 1 = YES				
C-0055	SSR_1B_EOM		CDH			
Data Type: STATUS # Bits: 1	Description: SSR_IB_END_OF_MEM Data Range:	Channel Type: DISCRETE MUX Address: 8113-7 Connector-Pin: J12-83				
Indicates memory pointer is within 1024 bytes of end of memory.						
Loss of Function: N/A						
Recommended Action: N/A						
Impact of Loss of Tlm: Potential data loss on record.						
Alternate Telemetry: None. Related Measurements: SSR serial telemetry. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = YES 1 = NO </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = YES 1 = NO
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = YES 1 = NO				

EDF TELEMETRY

C-0056	SSR_1B_EOP		CDH
Data Type: STATUS # Bits: 1	Description: SSR_1B_END_OF_PART Data Range:	Channel Type: DISCRETE MUX Address: 8113-6 Connector-Pin: J12-51	
Indicates memory pointer is within 1024 bytes of end of partition.			
Loss of Function: N/A			
Recommended Action: N/A			
Impact of Loss of Tlm: None.			
Alternate Telemetry: None. Related Measurements: SSR serial telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = YES 1 = NO	
C-0057	SSR_1B_REOP		CDH
Data Type: STATUS # Bits: 1	Description: SSR_1B_RE_RECORD_EOP Data Range:	Channel Type: DISCRETE MUX Address: 8113-5 Connector-Pin: J12-19	
Indicates re-recording end of partition marker.			
Loss of Function: N/A			
Recommended Action: N/A			
Impact of Loss of Tlm: Potential data loss on record.			
Alternate Telemetry: None. Related Measurements: SSR serial telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = YES 1 = NO	

EDF TELEMETRY

C-0058	SSR_1B_DENA		CDH
Data Type: STATUS # Bits: 1	Description: SSR_1B_DENA Data Range:	Channel Type: DISCRETE MUX Address: 811A-3 Connector-Pin: J7-90	
Indicates presence or absence of data enable command.			
Loss of Function: Loss of SSR 1B.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: None. Can't verify data enable.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLED 1 = DISABLED	
C-0060	SSR_2A_CLOCK		CDH
Data Type: STATUS # Bits: 4	Description: SSR_2A_CLOCK Data Range:	Channel Type: SERIAL MUX Address: 8060-5 Connector-Pin: J5-5	
Indicates S/C clock source provided to SSR 2A and SSR 2B.			
Loss of Function: Loss of SSR 2A and possible SSR 2B.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: None. Can't verify commanded clock.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = EDF-2 1 = 85K_CLK 2 = S&E-1B 3 = 21K_CLK 4 = EDF-1 5 = 42K_CLK 6 = S&E-1A 7 = 8K_CLK	8 = invalid 9 = STANDBY 10 = invalid 10 = invalid 12 = invalid 13 = 32K_CLK 14 = invalid 15 = invalid

EDF TELEMETRY

C-0061	SSR_2A_MODE		CDH
Data Type: STATUS # Bits: 4	Description: SSR_2A_MODE Data Range:	Channel Type: SERIAL MUX Address: 8060-1 Connector-Pin: J5-5	
Indicates SSR 2A commanded mode.			
Loss of Function: Loss of SSR 2A.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: None. Can't verify commanded mode.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RECORD 1 = PLAYBACK 2 = IGNR_MAP 3 = REF_FAST 4 = CMD_BIT 5 = SCRUB_1PD 6 = LOW_PWR 7 = invalid	8 = SERIAL_TLM 9 = SCRUB_ASE 10 = ENA_SCRUB 11 = invalid 12 = CLR_PART 13 = REF_SLOW 14 = DIS_SCRUB 15 = invalid
C-0062	SSR_2A_PARTITION		CDH
Data Type: STATUS # Bits: 3	Description: SSR_2A_PARTITION Data Range:	Channel Type: SERIAL MUX Address: 8060-6 Connector-Pin: J5-5	
Indicates partition of last commanded activity.			
Loss of Function: Limited ability to select partitions.			
Recommended Action: Use remaining SSRs, unless multiple failures.			
Impact of Loss of Tlm: None.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = PARTN_1 1 = PARTN_5 2 = PARTN_3 3 = PARTN_7 4 = PARTN_2 5 = PARTN_6 6 = PARTN_4 7 = PARTN_8	

EDF TELEMETRY

C-0063	SSR_2A_PWR		CDH
Data Type: STATUS # Bits: 1	Description: SSR_2A_POWER Data Range:	Channel Type: DISCRETE MUX Address: 810A-6 Connector-Pin: J12-42	
Indicates on/off power state of SSR 2A.			
Loss of Function: Loss of SSR 2A.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: Can't verify SSR power state.			
Alternate Telemetry: C-0060, C-0061, C-0062, C-0064, C-0065, C-0066, C-0067, C-0068 Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF	
C-0064	SSR_2A_READY		CDH
Data Type: STATUS # Bits: 1	Description: SSR_2A_READY Data Range:	Channel Type: DISCRETE MUX Address: 8112-4 Connector-Pin: J7-114	
Indicates ready state to record or playback data.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO 1 = YES	

EDF TELEMETRY

C-0065	SSR_2A_EOM		CDH
Data Type: STATUS # Bits: 1	Description: SSR_2A_END_OF_MEM Data Range:	Channel Type: DISCRETE MUX Address: 8112-3 Connector-Pin: J7-82	
Indicates memory pointer is within 1024 bytes of end of memory.			
Loss of Function: N/A			
Recommended Action: N/A			
Impact of Loss of Tlm: Potential data loss on record.			
Alternate Telemetry: None. Related Measurements: SSR serial telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = YES 1 = NO	
C-0066	SSR_2A_EOP		CDH
Data Type: STATUS # Bits: 1	Description: SSR_2A_END_OF_PART Data Range:	Channel Type: DISCRETE MUX Address: 8112-2 Connector-Pin: J7-50	
Indicates memory pointer is within 1024 bytes of end of partition.			
Loss of Function: N/A			
Recommended Action: N/A			
Impact of Loss of Tlm: None.			
Alternate Telemetry: None. Related Measurements: SSR serial telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = YES 1 = NO	

EDF TELEMETRY

C-0067	SSR_2A_REOP		CDH
Data Type: STATUS # Bits: 1	Description: SSR_2A_RE_RECORD_EOP Data Range:	Channel Type: DISCRETE MUX Address: 8112-1 Connector-Pin: J7-18	
Indicates re-recording end of partition marker.			
Loss of Function: N/A			
Recommended Action: N/A			
Impact of Loss of Tlm: Potential data loss on record.			
Alternate Telemetry: None. Related Measurements: SSR serial telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = YES 1 = NO	
C-0068	SSR_2A_DENA		CDH
Data Type: STATUS # Bits: 1	Description: SSR_2A_DENA Data Range:	Channel Type: DISCRETE MUX Address: 8102-5 Connector-Pin: J12-2	
Indicates presence or absence of data enable command.			
Loss of Function: Loss of SSR 2A.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: None. Can't verify data enable.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLED 1 = DISABLED	

EDF TELEMETRY

C-0069	SSR2BmodeC		CDH
Data Type: UNSIGNED # Bits: 1	Description: SSR_2B_MODE_BIT_C Data Range:	Channel Type: DISCRETE MUX Address: 810F-6 Connector-Pin: J12-47	
Bit C of the SSR 2B MODE. Note - This channel is made up of 4 DISCRETE bits (unlike the serial telemetry for SSRs 1A, 1B and 2A). These bits are extracted from MUX 8111-8,7,6,5. Due to a dark pin found on the third bit (8111-6), a pin change was performed in ATLO to 810F-6. The third bit is now found on C-0069. The C-0071 channel SSR_2B_MODE is derived from channels C-0069 and C-0070.			
Loss of Function: Loss of SSR 2B. Recommended Action: Use remaining SSRs. Impact of Loss of Tlm: None. Can't verify commanded mode. Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
C-0070	SSR2BmodeABD		CDH
Data Type: UNSIGNED # Bits: 4	Description: SSR_2B_MODE_BITS_A_B_D Data Range:	Channel Type: DISCRETE MUX Address: 8111-8 Connector-Pin: J7-17	
Bits A,B and D of the SSR 2B MODE. Note - This channel is made up of 4 DISCRETE bits (unlike the serial telemetry for SSRs 1A, 1B and 2A). These bits are extracted from MUX 8111-8,7,6,5. Due to a dark pin found on the third bit (8111-6), a pin change was performed in ATLO to 810F-6. The third bit is now found on C-0069. The C-0071 channel SSR_2B_MODE is derived from channels C-0069 and C-0070.			
Loss of Function: Loss of SSR 2B. Recommended Action: Use remaining SSRs. Impact of Loss of Tlm: None. Can't verify commanded mode. Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: ON CCL Param: 0		

EDF TELEMETRY

C-0072	SSR_2B_PART		CDH
Data Type: STATUS # Bits: 3	Description: SSR_2B_PARTITION Data Range:	Channel Type: DISCRETE MUX Address: 8111-4 Connector-Pin: J7-49	
Indicates partition of last commanded activity. Note - This channel is made up of 3 DISCRETE bits (unlike the serial telemetry for SSRs 1A, 1B and 2A). These bits are extracted from Connector J12 Pins 17, 49 and 81.			
Loss of Function: Limited ability to select partitions. Recommended Action: Use remaining SSRs, unless multiple failures. Impact of Loss of Tlm: None. Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = PARTN_8 1 = PARTN_7 2 = PARTN_6 3 = PARTN_5 4 = PARTN_4 5 = PARTN_3 6 = PARTN_2 7 = PARTN_1	
C-0073	SSR_2B_PWR		CDH
Data Type: STATUS # Bits: 1	Description: SSR_2B_POWER Data Range:	Channel Type: DISCRETE MUX Address: 810A-2 Connector-Pin: J7-42	
Indicates on/off power state of SSR 2B.			
Loss of Function: Loss of SSR 2B. Recommended Action: Use remaining SSRs. Impact of Loss of Tlm: Can't verify SSR power state. Alternate Telemetry: C-0069, C-0070, C-0072, C-0074, C-0075, C-0076, C-0077, C-0078 Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF	

EDF TELEMETRY

C-0074	SSR_2B_READY		CDH			
Data Type: STATUS # Bits: 1	Description: SSR_2B_READY Data Range:	Channel Type: DISCRETE MUX Address: 8113-4 Connector-Pin: J7-115				
Indicates ready state to record or playback data.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = NO 1 = YES </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO 1 = YES
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO 1 = YES				
C-0075	SSR_2B_EOM		CDH			
Data Type: STATUS # Bits: 1	Description: SSR_2B_END_OF_MEM Data Range:	Channel Type: DISCRETE MUX Address: 8113-3 Connector-Pin: J7-83				
Indicates memory pointer is within 1024 bytes of end of memory.						
Loss of Function: N/A						
Recommended Action: N/A						
Impact of Loss of Tlm: Potential data loss on record.						
Alternate Telemetry: None. Related Measurements: SSR serial telemetry. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = YES 1 = NO </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = YES 1 = NO
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = YES 1 = NO				

EDF TELEMETRY

C-0076	SSR_2B_EOP		CDH
Data Type: STATUS # Bits: 1	Description: SSR_2B_END_OF_PART Data Range:	Channel Type: DISCRETE MUX Address: 8113-2 Connector-Pin: J7-51	
Indicates memory pointer is within 1024 bytes of end of partition.			
Loss of Function: N/A			
Recommended Action: N/A			
Impact of Loss of Tlm: None.			
Alternate Telemetry: None. Related Measurements: SSR serial telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = YES 1 = NO	
C-0077	SSR_2B_REOP		CDH
Data Type: STATUS # Bits: 1	Description: SSR_2B_RE_RECORD_EOP Data Range:	Channel Type: DISCRETE MUX Address: 8113-1 Connector-Pin: J7-19	
Indicates re-recording end of partition marker.			
Loss of Function: N/A			
Recommended Action: N/A			
Impact of Loss of Tlm: Potential data loss on record.			
Alternate Telemetry: None. Related Measurements: SSR serial telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = YES 1 = NO	

EDF TELEMETRY

C-0078	SSR_2B_DENA		CDH
Data Type: STATUS # Bits: 1	Description: SSR_2B_DENA Data Range:	Channel Type: DISCRETE MUX Address: 8117-5 Connector-Pin: J12-23	
Indicates presence or absence of data enable command.			
Loss of Function: Loss of SSR 2B.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: None. Can't verify data enable.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLED 1 = DISABLED	
C-0080	XSUSIDE1		CDH
Data Type: STATUS # Bits: 1	Description: XSU_SERL_TLM_SIDE1 Data Range:	Channel Type: SERIAL MUX Address: 8060-1 Connector-Pin: J5-5	
Indicates whether XSU side 1 is on or off.			
Loss of Function: Loss of XSU side 1.			
Recommended Action: Select XSU side 2.			
Impact of Loss of Tlm: Cannot determine whether XSU side 1 is on or off.			
Alternate Telemetry: XSU1 converter voltage E-0151. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = OFF 1 = ON	

EDF TELEMETRY

C-0081	XSUSIDE2		CDH
Data Type: STATUS # Bits: 1	Description: XSU_SERL_TLM_SIDE2 Data Range:	Channel Type: SERIAL MUX Address: 8060-1 Connector-Pin: J5-5	
Indicates whether XSU side 2 is on or off.			
Loss of Function: Loss of XSU side 2.			
Recommended Action: Select XSU side 1.			
Impact of Loss of Tlm: Cannot determine whether XSU side 2 is on or off.			
Alternate Telemetry: XSU2 converter voltage E-0152. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = OFF 1 = ON	
C-0082	XSU_W2_SPARE		CDH
Data Type: STATUS # Bits: 4	Description: XSU_WRD2_SPARES Data Range:	Channel Type: SERIAL MUX Address: 8060-2 Connector-Pin: J5-5	
XSU serial stream word 2 spare bits.			
Loss of Function: XSU serial stream word 2 spare bits.			
Recommended Action: \$TBD\$			
Impact of Loss of Tlm: \$TBD\$			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0000 1 = 0001 2 = 0002 3 = 0003 4 = 0004 5 = 0005 6 = 0006 7 = 0007	8 = 0008 9 = 0009 10 = 0010 10 = 0011 12 = 0012 13 = 0013 14 = 0014 15 = 0015

EDF TELEMETRY

C-0083	XSU_W4_SPARE		CDH																																
Data Type: STATUS # Bits: 4	Description: XSU_WRD4_SPARES Data Range:	Channel Type: SERIAL MUX Address: 8060-2 Connector-Pin: J5-5																																	
XSU serial stream word 4 spare bits.																																			
Loss of Function: XSU serial stream word 4 spare bits.																																			
Recommended Action: \$TBD\$																																			
Impact of Loss of Tlm: \$TBD\$																																			
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Time Type: ERT</td> <td style="width: 25%;">Conversion Type: N/A</td> <td style="width: 25%;">State Names:</td> <td style="width: 25%;">8 = 0008</td> </tr> <tr> <td>Test Type: DN</td> <td></td> <td>1 = 0001</td> <td>9 = 0009</td> </tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td>2 = 0002</td> <td>10 = 0010</td> </tr> <tr> <td>Red Alarm Mask:</td> <td></td> <td>3 = 0003</td> <td>10 = 0011</td> </tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td>4 = 0004</td> <td>12 = 0012</td> </tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td>5 = 0005</td> <td>13 = 0013</td> </tr> <tr> <td></td> <td></td> <td>6 = 0006</td> <td>14 = 0014</td> </tr> <tr> <td></td> <td></td> <td>7 = 0007</td> <td>15 = 0015</td> </tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names:	8 = 0008	Test Type: DN		1 = 0001	9 = 0009	Red Alarm Type: OFF		2 = 0002	10 = 0010	Red Alarm Mask:		3 = 0003	10 = 0011	In Hysteresis: 0	CCL Process: OFF	4 = 0004	12 = 0012	Out Hysteresis: 0	CCL Param: 0	5 = 0005	13 = 0013			6 = 0006	14 = 0014			7 = 0007	15 = 0015
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		7 = 0007	15 = 0015																																
C-0084	XSU_W6_SPARE		CDH																																
Data Type: STATUS # Bits: 4	Description: XSU_WRD6_SPARES Data Range:	Channel Type: SERIAL MUX Address: 8060-2 Connector-Pin: J5-5																																	
XSU serial stream word 6 spare bits.																																			
Loss of Function: XSU serial stream word 6 spare bits.																																			
Recommended Action: \$TBD\$																																			
Impact of Loss of Tlm: \$TBD\$																																			
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		7 = 0007	15 = 0015																																

EDF TELEMETRY

C-0085	XSU1_PGC		CDH
Data Type: STATUS # Bits: 4	Description: XSU_SERL_AMPL_MOT1 Data Range:	Channel Type: SERIAL MUX Address: 8060-1 Connector-Pin: J5-5	
Provides XSU1 downlink data modulation amplitude. State range is 369_mv to 698_mv (in increments of 22mv). Must know MOTCROSS state to determine which MOT is receiving the PGC setting.			
Loss of Function: Degraded knowledge of XSU1 status.			
Recommended Action: Select XSU side 2 and determine XSU-MOT cross-strapping as needed.			
Impact of Loss of Tlm: Loss of capability to determine XSU1 downlink data modulation amplitude.			
Alternate Telemetry: None. Related Measurements: DSN downlink AGC.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 369_MV 1 = 391_MV 2 = 413_MV 3 = 435_MV 4 = 457_MV 5 = 479_MV 6 = 501_MV 7 = 523_MV	8 = 546_MV 9 = 567_MV 10 = 588_MV 10 = 610_MV 12 = 632_MV 13 = 654_MV 14 = 676_MV 15 = 698_MV
C-0086	XSU2_PGC		CDH
Data Type: STATUS # Bits: 4	Description: XSU_SERL_AMPL_MOT2 Data Range:	Channel Type: SERIAL MUX Address: 8060-1 Connector-Pin: J5-5	
Provides XSU2 downlink data modulation amplitude. State range is 369_mv to 698_mv (in increments of 22mv). Must know MOTCROSS state to determine which MOT is receiving the PGC setting.			
Loss of Function: Degraded knowledge of XSU2 status.			
Recommended Action: Select XSU side 1 and determine XSU-MOT cross-strapping as needed.			
Impact of Loss of Tlm: Loss of capability to determine XSU2 downlink data modulation amplitude.			
Alternate Telemetry: None. Related Measurements: DSN downlink AGC.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 369_MV 1 = 391_MV 2 = 413_MV 3 = 435_MV 4 = 457_MV 5 = 479_MV 6 = 501_MV 7 = 523_MV	8 = 546_MV 9 = 567_MV 10 = 588_MV 10 = 610_MV 12 = 632_MV 13 = 654_MV 14 = 676_MV 15 = 698_MV

EDF TELEMETRY

C-0087	XSU1_SRC		CDH
Data Type: STATUS # Bits: 4	Description: XSU_STREAM_SELCT_1 Data Range:	Channel Type: SERIAL MUX Address: 8060-5 Connector-Pin: J5-5	
Indicates source of data to be relayed from XSU1 to the MOT for transmission. Must know MOTCROSS state to determine which MOT is receiving the SRC setting.			
Loss of Function: Loss of capability to select data stream to be routed to MOT1.			
Recommended Action: Attempt connecting a data stream to MOT from XSU side 2 with appropriate cross-strapping.			
Impact of Loss of Tlm: Loss of capability to determine type of data being transmitted from XSU1 to the MOT.			
Alternate Telemetry: None. Related Measurements: Contents of downlink telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SSR-1A 1 = EDF-2 2 = SSR-2 3 = S&E-2B 4 = SSR-1B 5 = S&E-1B 6 = EDF-1 7 = invalid	8 = invalid 9 = invalid 10 = invalid 10 = S&E-2A 12 = invalid 13 = S&E-1A 14 = invalid 15 = invalid
C-0088	XSU2_SRC		CDH
Data Type: STATUS # Bits: 4	Description: XSU_STREAM_SELCT_2 Data Range:	Channel Type: SERIAL MUX Address: 8060-5 Connector-Pin: J5-5	
Indicates source of data to be relayed from XSU2 to the MOT for transmission. Must know MOTCROSS state to determine which MOT is receiving the SRC setting.			
Loss of Function: Loss of capability to select data stream to be routed to MOT2.			
Recommended Action: Attempt connecting a data stream to MOT from XSU side 1 with appropriate cross-strapping. (Select redundant XSU).			
Impact of Loss of Tlm: Loss of capability to determine type of data being transmitted from XSU2 to the MOT.			
Alternate Telemetry: None. Related Measurements: Contents of downlink telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SSR-1A 1 = EDF-2 2 = SSR-2 3 = S&E-2B 4 = SSR-1B 5 = S&E-1B 6 = EDF-1 7 = invalid	8 = invalid 9 = invalid 10 = invalid 10 = S&E-2A 12 = invalid 13 = S&E-1A 14 = invalid 15 = invalid

EDF TELEMETRY

C-0101	A_CAL1_1.28V	CDH
Data Type: UNSIGNED # Bits: 8	Description: EDF1_AN_CAL_V_128 Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 8329 Connector-Pin: J10-41
EDF output for monitoring reference levels of Analog Telemetry A/D converters.		
Loss of Function: Loss of EDF side 1.		
Recommended Action: Use EDF side 2 (autonomous switch).		
Impact of Loss of Tlm: None.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02
C-0102	A_CAL2_1.28V	CDH
Data Type: UNSIGNED # Bits: 8	Description: EDF2_AN_CAL_V_128 Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 82A6 Connector-Pin: J9-38
EDF output for monitoring reference levels of Analog Telemetry A/D converters.		
Loss of Function: Loss of EDF side 2.		
Recommended Action: Use EDF side 1 (autonomous switch).		
Impact of Loss of Tlm: None.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02

EDF TELEMETRY

C-0103	A_CAL1_2.56V	CDH
Data Type: UNSIGNED # Bits: 8	Description: EDF1_AN_CAL_V_256 Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 834C Connector-Pin: J10-60
EDF output for monitoring reference levels of Analog Telemetry A/D converters.		
Loss of Function: Loss of EDF side 1.		
Recommended Action: Use EDF side 2 (autonomous switch).		
Impact of Loss of Tlm: None.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02
C-0104	A_CAL2_2.56V	CDH
Data Type: UNSIGNED # Bits: 8	Description: EDF2_AN_CAL_V_256 Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 82AF Connector-Pin: J9-47
EDF output for monitoring reference levels of Analog Telemetry A/D converters.		
Loss of Function: Loss of EDF side 2.		
Recommended Action: Use EDF side 1 (autonomous switch).		
Impact of Loss of Tlm: None.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02

EDF TELEMETRY

C-0105	A_CAL1_3.84V	CDH
Data Type: UNSIGNED # Bits: 8	Description: EDF1_AN_CAL_V_3.84 Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 83A9 Connector-Pin: J11-41
EDF output for monitoring reference levels of Analog Telemetry A/D converters.		
Loss of Function: Loss of EDF side 1.		
Recommended Action: Use EDF side 2 (autonomous switch).		
Impact of Loss of Tlm: None.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02
C-0106	A_CAL2_3.84V	CDH
Data Type: UNSIGNED # Bits: 8	Description: EDF2_AN_CAL_V_3.84 Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 832F Connector-Pin: J10-47
EDF output for monitoring reference levels of Analog Telemetry A/D converters.		
Loss of Function: Loss of EDF side 2.		
Recommended Action: Use EDF side 1 (autonomous switch).		
Impact of Loss of Tlm: None.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02

EDF TELEMETRY

C-0107	A_CAL1_5.12V	CDH
Data Type: UNSIGNED # Bits: 8	Description: EDF1_AN_CAL_V_5.12 Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 824D Connector-Pin: J8-46
EDF output for monitoring reference levels of Analog Telemetry A/D converters.		
Loss of Function: Loss of EDF side 1.		
Recommended Action: Use EDF side 2 (autonomous switch).		
Impact of Loss of Tlm: None.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02
C-0108	A_CAL2_5.12V	CDH
Data Type: UNSIGNED # Bits: 8	Description: EDF2_AN_CAL_V_5.12 Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 82C4 Connector-Pin: J9-52
EDF output for monitoring reference levels of Analog Telemetry A/D converters.		
Loss of Function: Loss of EDF side 2.		
Recommended Action: Use EDF side 1 (autonomous switch).		
Impact of Loss of Tlm: None.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02

EDF TELEMETRY

C-0109	CIU_ACEDaA_V		CDH
Data Type: UNSIGNED # Bits: 8	Description: CIU_ACE_ABUS_OUPUT Data Range: 0.000:5.610	Channel Type: HL ANALOG MUX Address: 8321 Connector-Pin: J10-33	
Voltage status of CIU side A Digital/Analog converter.			
Loss of Function: AACS information processing will be affected.			
Recommended Action: Use CIU side B.			
Impact of Loss of Tlm: Side A converter status may be uncertain.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.20000E-02	
C-0110	CIU_ACEDaB_V		CDH
Data Type: UNSIGNED # Bits: 8	Description: CIU_ACE_BBUS_OUPUT Data Range: 0.000:5.610	Channel Type: HL ANALOG MUX Address: 82A1 Connector-Pin: J9-33	
Provides voltage status of CIU side B Digital/Analog converter.			
Loss of Function: AACS information processing will be affected.			
Recommended Action: Use CIU side A.			
Impact of Loss of Tlm: Side A converter status may be uncertain.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.20000E-02	

EDF TELEMETRY

C-0111	CIU_ACE_A_RV	CDH
Data Type: UNSIGNED # Bits: 8	Description: CIU_ACE_A_REF_VOLT Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 8399 Connector-Pin: J11-25
Status of reference voltage (1.645V nominal) for the CIU/EDF interface.		
Loss of Function: Information flow between SCP and EDF will be impacted.		
Recommended Action: Use CIU side B.		
Impact of Loss of Tlm: Less information about CIU/EDF interface.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02
C-0112	CIU_ACE_B_RV	CDH
Data Type: UNSIGNED # Bits: 8	Description: CIU_ACE_B_REF_VOLT Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 824C Connector-Pin: J8-45
Status of reference voltage (1.645V nominal) for the CIU/EDF interface.		
Loss of Function: Information flow between SCP and EDF will be impacted.		
Recommended Action: Use CIU side A.		
Impact of Loss of Tlm: Less information about CIU/EDF interface.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02

EDF TELEMETRY

C-0113	CIU_EPC+10AV		CDH
Data Type: UNSIGNED # Bits: 8	Description: CIU_EPC_+10V_A Data Range: 0.000:12.240	Channel Type: HL ANALOG MUX Address: 8291 Connector-Pin: J9-17	
Status of the CIU +10V line (side A).			
Loss of Function: Loss of power to CIU side A.			
Recommended Action: Use CIU side B.			
Impact of Loss of Tlm: Loss of information about the +10V line.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 4.80000E-02	
C-0114	CIU_EPC+10BV		CDH
Data Type: UNSIGNED # Bits: 8	Description: CIU_EPC_+10V_B Data Range: 0.000:12.240	Channel Type: HL ANALOG MUX Address: 8311 Connector-Pin: J10-17	
Status of the CIU +10V line (side B).			
Loss of Function: Loss of power to CIU side B.			
Recommended Action: Use CIU side A.			
Impact of Loss of Tlm: Loss of information about the +10V line.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 4.80000E-02	

EDF TELEMETRY

C-0115	CIU_EPC-10AV		CDH
Data Type: UNSIGNED # Bits: 8	Description: CIU_EPC_-10V_A Data Range: -14.000:2.320	Channel Type: HL ANALOG MUX Address: 8391 Connector-Pin: J11-17	
Status of the CIU -10V line (side A).			
Loss of Function: Loss of power to CIU side A.			
Recommended Action: Use CIU side B.			
Impact of Loss of Tlm: Loss of information about the -10V line.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.40000E+01 n1 = 6.40000E-02	
C-0116	CIU_EPC-10BV		CDH
Data Type: UNSIGNED # Bits: 8	Description: CIU_EPC_-10V_B Data Range: -14.000:2.320	Channel Type: HL ANALOG MUX Address: 8243 Connector-Pin: J8-36	
Status of the CIU -10V line (side B).			
Loss of Function: Loss of power to CIU side B.			
Recommended Action: Use CIU side A.			
Impact of Loss of Tlm: Loss of information about the -10V line.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.40000E+01 n1 = 6.40000E-02	

EDF TELEMETRY

C-0117	EDF1_CNV_V	CDH
Data Type: UNSIGNED # Bits: 8	Description: EDF_CONVSTAT_SIDE1 Data Range: 0.000:12.495	Channel Type: HL ANALOG MUX Address: 8309 Connector-Pin: J10-9
Measures EDF converter side 1 voltage.		
Loss of Function: Loss of EDF side 1.		
Recommended Action: Use EDF side 2.		
Impact of Loss of Tlm: Degraded knowledge of EDF side 1 status.		
Alternate Telemetry: Analog calibration voltages: C-0101 (A_CAL1_1.28V), C-0103 (A_CAL1_2.56V); C-0105 (A_CAL1_3.84V); C-0107 Related Measurements: N/A.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 4.90000E-02
C-0118	EDF1_CAL_I	CDH
Data Type: UNSIGNED # Bits: 8	Description: EDF1_CALIBR_CURRNT Data Range: 0.000:0.765	Channel Type: PASSIVE MUX Address: 83D7 Connector-Pin: J11-71
Indicates EDF side 1 calibration current which monitors health of passive analog inputs.		
Loss of Function: Loss of EDF side 1.		
Recommended Action: Use EDF side 2.		
Impact of Loss of Tlm: None.		
Alternate Telemetry: None. Related Measurements: Passive analog telemetry.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: mAMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.66667E-03

EDF TELEMETRY

C-0119	EDF2_CNV_V	CDH
Data Type: UNSIGNED # Bits: 8	Description: EDF_CONVSTAT_SIDE2 Data Range: 0.000:12.495	Channel Type: HL ANALOG MUX Address: 8389 Connector-Pin: J11-9
Measures EDF converter side 2 voltage.		
Loss of Function: Loss of EDF side 2.		
Recommended Action: Use EDF side 1.		
Impact of Loss of Tlm: Degraded knowledge of EDF side 2 status.		
Alternate Telemetry: Analog calibration voltages: C-0102 (A_CAL2_1.28V), C-0104 (A_CAL2_2.56V); C-0106 (A_CAL2_3.84V); C-0108 Related Measurements: N/A.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 4.90000E-02
C-0120	EDF2_CAL_I	CDH
Data Type: UNSIGNED # Bits: 8	Description: EDF2_CALIBR_CURRNT Data Range: 0.000:0.765	Channel Type: PASSIVE MUX Address: 8258 Connector-Pin: J8-57
Indicates EDF side 2 calibration current which monitors health of passive analog inputs.		
Loss of Function: Loss of EDF side 2.		
Recommended Action: Use EDF side 1.		
Impact of Loss of Tlm: None.		
Alternate Telemetry: None. Related Measurements: Other passive analog telemetry.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: mAMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.66667E-03

EDF TELEMETRY

C-0125	PDS_A_+5_V	CDH
Data Type: UNSIGNED # Bits: 8	Description: PDS_SIDE_A_+5V_OUT Data Range: 0.000:7.142	Channel Type: HL ANALOG MUX Address: 824E Connector-Pin: J8-47
Internal power supply voltage of payload data subsystem side A.		
Loss of Function: Loss of PDS Side A.		
Recommended Action: Use PDS B.		
Impact of Loss of Tlm: Loss of visibility into PDS Power Supply operation.		
Alternate Telemetry: C-0126 (PDS_B_+5_V) Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.80059E-02
C-0126	PDS_B_+5_V	CDH
Data Type: UNSIGNED # Bits: 8	Description: PDS_SIDE_B_+5V_OUT Data Range: 0.000:7.142	Channel Type: HL ANALOG MUX Address: 828A Connector-Pin: J9-10
Internal power supply voltage of the payload data system side B.		
Loss of Function: Loss of PDS B.		
Recommended Action: Use PDS A.		
Impact of Loss of Tlm: Loss of visibility into PDS Power Supply operation.		
Alternate Telemetry: C-0125 (PDS_A_+5_V) Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.80059E-02

EDF TELEMETRY

C-0131	SCP1_+5_V		CDH
Data Type: UNSIGNED # Bits: 8	Description: SCP1_+5V_PWR_SUPPL Data Range: 0.000:7.395	Channel Type: HL ANALOG MUX Address: 8319 Connector-Pin: J10-25	
Monitors +5V supply for SCP1.			
Loss of Function: Loss of SCP 1.			
Recommended Action: Use SCP2.			
Impact of Loss of Tlm: Loss of health indicator for SCP1.			
Alternate Telemetry: None. Related Measurements: N/A.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.90000E-02	
C-0132	SCP2_+5_V		CDH
Data Type: UNSIGNED # Bits: 8	Description: SCP2_+5V_PWR_SUPPL Data Range: 0.000:7.395	Channel Type: HL ANALOG MUX Address: 83AE Connector-Pin: J11-46	
Monitors +5V supply for SCP2.			
Loss of Function: Loss of SCP 2.			
Recommended Action: Use SCP1.			
Impact of Loss of Tlm: Loss of health indicator for SCP2.			
Alternate Telemetry: None. Related Measurements: N/A.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.90000E-02	

EDF TELEMETRY

C-0141	SSR_1A_-5V	CDH
Data Type: UNSIGNED # Bits: 8	Description: SSR_1A_-5_VOLT_PS Data Range: -7.894:-2.142	Channel Type: HL ANALOG MUX Address: 8320 Connector-Pin: J10-32
SSR 1A -5 volt power supply.		
Loss of Function: Loss of SSR_1A.		
Recommended Action: Use remaining SSRs.		
Impact of Loss of Tlm: Loss of health indicator.		
Alternate Telemetry: None. Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -7.89406E+00 n1 = 2.25571E-02
C-0142	SSR_1A_I	CDH
Data Type: UNSIGNED # Bits: 8	Description: SSR_1A_CURRENT Data Range: 0.000:602.000	Channel Type: HL ANALOG MUX Address: 8246 Connector-Pin: J8-39
SSR 1A current.		
Loss of Function: Loss of SSR_1A.		
Recommended Action: Use remaining SSRs.		
Impact of Loss of Tlm: Loss of health indicator.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: mAMPS CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.36078E+00

EDF TELEMETRY

C-0143	SSR_1B_-5V		CDH
Data Type: UNSIGNED # Bits: 8	Description: SSR_1B_-5_VOLT_PS Data Range: -7.894:-2.142	Channel Type: HL ANALOG MUX Address: 82A8 Connector-Pin: J9-40	
SSR 1B -5 volt power supply.			
Loss of Function: Loss of SSR_1B.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: Loss of health indicator.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -7.89406E+00 n1 = 2.25571E-02	
C-0144	SSR_1B_I		CDH
Data Type: UNSIGNED # Bits: 8	Description: SSR_1B_CURRENT Data Range: 0.000:602.000	Channel Type: HL ANALOG MUX Address: 83A0 Connector-Pin: J11-32	
SSR 1B current.			
Loss of Function: Loss of SSR_1B.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: Loss of health indicator.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: mAMPS CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.36078E+00	

EDF TELEMETRY

C-0145	SSR_2A_-5V		CDH
Data Type: UNSIGNED # Bits: 8	Description: SSR_2A_-5_VOLT_PS Data Range: -7.894:-2.142	Channel Type: HL ANALOG MUX Address: 8299 Connector-Pin: J9-25	
SSR 2A -5 volt power supply.			
Loss of Function: Loss of SSR_2A.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: Loss of health indicator.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -7.89406E+00 n1 = 2.25571E-02	
C-0146	SSR_2A_I		CDH
Data Type: UNSIGNED # Bits: 8	Description: SSR_2A_CURRENT Data Range: 0.000:602.000	Channel Type: HL ANALOG MUX Address: 82C2 Connector-Pin: J9-50	
SSR 2A current.			
Loss of Function: Loss of SSR_2A.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: Loss of health indicator.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: mAMPS CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.36078E+00	

EDF TELEMETRY

C-0147	SSR_2B_-5V		CDH
Data Type: UNSIGNED # Bits: 8	Description: SSR_2B_-5_VOLT_PS Data Range: -7.894:-2.142	Channel Type: HL ANALOG MUX Address: 834B Connector-Pin: J10-59	
SSR 2B -5 volt power supply.			
Loss of Function: Loss of SSR_2B.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: Loss of health indicator.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -7.89406E+00 n1 = 2.25571E-02	
C-0148	SSR_2B_I		CDH
Data Type: UNSIGNED # Bits: 8	Description: SSR_2B_CURRENT Data Range: 0.000:602.000	Channel Type: HL ANALOG MUX Address: 8340 Connector-Pin: J10-48	
SSR 2B current.			
Loss of Function: Loss of SSR_2B.			
Recommended Action: Use remaining SSRs.			
Impact of Loss of Tlm: Loss of health indicator.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: mAMPS CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.36078E+00	

EDF TELEMETRY

C-0151	XSU1_CNV_V		CDH
Data Type: UNSIGNED # Bits: 8	Description: XSU_CONVSTAT_SIDE1 Data Range: 0.000:12.495	Channel Type: HL ANALOG MUX Address: 83A1 Connector-Pin: J11-33	
Monitor +10V supply for XSU Converter Side 1.			
Loss of Function: Loss of XSU 1.			
Recommended Action: Use XSU 2.			
Impact of Loss of Tlm: Loss of health indicator for XSU 1.			
Alternate Telemetry: None. Related Measurements: N/A.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 4.90000E-02	
C-0152	XSU2_CNV_V		CDH
Data Type: UNSIGNED # Bits: 8	Description: XSU_CONVSTAT_SIDE2 Data Range: 0.000:12.495	Channel Type: HL ANALOG MUX Address: 834E Connector-Pin: J10-62	
Monitor +10V supply for XSU Converter Side 2.			
Loss of Function: Loss of XSU 2.			
Recommended Action: Use XSU 1.			
Impact of Loss of Tlm: Loss of health indicator for XSU 2.			
Alternate Telemetry: None. Related Measurements: N/A.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 4.90000E-02	

EDF TELEMETRY

E-0001	BAT1_PR_CHG	PWR
Data Type: STATUS # Bits: 1	Description: BAT1_PRI_CHARGE_PATH Data Range:	Channel Type: DISCRETE MUX Address: 810C-4 Connector-Pin: J7-108
Gives Connect Status of PRIMARY BATTERY CHARGE REGULATOR 1. Eg.connected to Battery 1 or not.		
Loss of Function: N/A. BCR 1 PRI is redundant by BCR 1 B/U, PMS also monitors battery SOC and will command BU BCR 1 if SOC get too low on battery 1. Loss of PRI and BU BCR1 results in loss of ability to recharge battery 1. Recommended Action: Check alternate TLM. If (and only if) battery cannot be charged then command other battery to a 12.5 amp charge rate for aerobraking or 10 amp charge rate for mapping eclipse operations. Impact of Loss of Tlm: Must use alternate TLM to verify PRI BCR 1 Connected or Charge Path Disconnected. Alternate Telemetry: E-0002 (BAT1_BU_CHG), E-0003 (BAT1_CHG_CFG) Related Measurements: E-0101 (BAT1_HI_V), E-0105 (BAT1_CHRG_I)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISCONNECT 1 = CONNECT
E-0002	BAT1_BU_CHG	PWR
Data Type: STATUS # Bits: 1	Description: BAT1_BU_CHARGE_PATH Data Range:	Channel Type: DISCRETE MUX Address: 810B-6 Connector-Pin: J12-43
Gives Connect Status of Backup Battery Charge Regulator 1. Eg. connected to Battery 1 or not.		
Loss of Function: N/A. BCR 1 PRI is redundant by BCR 1 B/U, PMS also monitors battery SOC and will command BU BCR 1 if SOC get too low on battery 1. Loss of PRI and BU BCR1 results in loss of ability to recharge battery 1. Recommended Action: Check alternate TLM. If (and only if) battery cannot be charged then command other battery to a 12.5 amp charge rate for aerobraking or 10 amp charge rate for mapping eclipse operations. Impact of Loss of Tlm: Must use alternate TLM to verify backup BCR 1 Connected. or Charge Path Disconnected. Alternate Telemetry: E-0001 (BAT1_PR_CHG), E-0003 (BAT1_CHG_CFG) Related Measurements: E-0101 (BAT1_HI_V), E-0105 (BAT1_CHRG_I)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISCONNECT 1 = CONNECT

EDF TELEMETRY

E-0003		BAT1_CHG_CFG	PWR
Data Type: STATUS # Bits: 1	Description: BAT1_CHARGE_CONFIG Data Range:	Channel Type: DISCRETE MUX Address: 8117-1 Connector-Pin: J7-23	
Give primary or backup status of battery charge regulator 1.			
Loss of Function: N/A. BCR 1 PR1 is redundant by BCR 1 B/U, PMS also monitors battery SOC and will command BU BCR 1 if SOC get too low on battery 1. Loss of PR1 and BU BCR1 results in loss of ability to recharge battery 1.			
Recommended Action: Check alternate TLM. If (and only if) battery cannot be charged then command other battery to a 12.5 amp charge rate for aerobraking or 10 amp charge rate for mapping eclipse operations.			
Impact of Loss of Tlm: Must use alternate TLM to determine BCR1 charge path relay status.			
Alternate Telemetry: E-0001 (BAT1_PR_CHG), E-0002 (BAT1_BU_CHG) Related Measurements: E-0001 (BAT1_PR_CHG), E-0002 (BAT1_BU_CHG)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BACK_UP 1 = PRIMARY	
E-0004		BAT1_TRK_ENA	PWR
Data Type: STATUS # Bits: 1	Description: BAT1_TRICKLE_ENABLE Data Range:	Channel Type: DISCRETE MUX Address: 810B-4 Connector-Pin: J7-107	
Battery 1 C/100 trickle charge enable status.			
Loss of Function: N/A. Indication of Battery 1 external trickle charge can be monitored by Battery voltages E-0101.			
Recommended Action: Check E-0101 telemetry for battery 1 voltage. If no indication of charge, periodic connection of the BCR at the 0.85 amp charge rate will be required to maintain battery charge state.			
Impact of Loss of Tlm: Must use alternate telemetry to determine battery 1 charge path relay status.			
Alternate Telemetry: Check E-0101 telemetry for battery 1 voltage. Related Measurements: E-0101 (BAT1_HI_V)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	

EDF TELEMETRY

E-0005	BAT1_TRK_ON		PWR
Data Type: STATUS # Bits: 1	Description: BAT1_TRICKLE_ON Data Range:	Channel Type: DISCRETE MUX Address: 810B-2 Connector-Pin: J7-43	
Battery 1 C/100 trickle charge on status.			
Loss of Function: N/A. Indication of Battery 1 external trickle charge can be monitored by Battery voltages E-0101.			
Recommended Action: Check E-0101 telemetry for battery 1 voltage. If no indication of charge, periodic connection of the BCR at the 0.85 amp charge rate will be required to maintain battery charge state.			
Impact of Loss of Tlm: Must use alternate telemetry to determine battery 1 charge path relay status.			
Alternate Telemetry: Check E-0101 telemetry for battery 1 voltage. Related Measurements: E-0101 (BAT1_HI_V)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF	
E-0006	BAT1_VT_SHFT		PWR
Data Type: STATUS # Bits: 1	Description: BAT1_VT_SHIFT_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810B-8 Connector-Pin: J12-107	
Gives Charge Control Voltage/Temperature (V/T) Shift Status of PRIMARY and BACKUP BATTERY CHARGE REGULATOR 1. Eg. Battery 1 to be charged using Shifted or Unshifted V/T curves.			
Loss of Function: N/A. BCR 1 PR1 is redundant by BCR 1 B/U, PMS also monitors battery SOC and will command BU BCR 1 if SOC get too low on battery 1. Loss of PR1 and BU BCR1 results in loss of ability to recharge battery 1.			
Recommended Action: Check alternate TLM. Select backup BCR. If (and only if) battery cannot be charged then command other battery to a 12.5 amp charge rate for aerobraking or 10 amp charge rate for mapping eclipse operations.			
Impact of Loss of Tlm: Must use alternate TLM to verify which set of V/T curves BCR1 is using/commanded to use.			
Alternate Telemetry: E-0107 (BAT1_VT_LMIT) Related Measurements: E-0101 (BAT1_HI_V), Battery 1 Voltage (High Range).			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SHIFTED 1 = UNSHIFT	

EDF TELEMETRY

E-0011	BAT2_PR_CHG	PWR
Data Type: STATUS # Bits: 1	Description: BAT2_PRI_CHARGE_PATH Data Range:	Channel Type: DISCRETE MUX Address: 810B-1 Connector-Pin: J7-11
Gives Connect Status of PRIMARY BATTERY CHARGE REGULATOR 2. (connected to Battery 2 or not).		
Loss of Function: N/A. BCR 2 PR1 is redundant by BCR 2 B/U, PMS also monitors battery SOC and will command BU BCR 2 if SOC get too low on battery 2. Loss of PR1 and BU BCR2 results in loss of ability to recharge battery 2. Recommended Action: Check alternate TLM. If (and only if) battery cannot be charged then command other battery to a 12.5 amp charge rate for aerobraking or 10 amp charge rate for mapping eclipse operations. Impact of Loss of Tlm: Must use alternate TLM to verify PRI BCR2 Connected or Charge Path Disconnected. Alternate Telemetry: E-0012 (BAT2_B/U_CHG), E-0013 (BAT2_CHG_CFG) Related Measurements: E-0111 (BAT2_HI_V), Battery 2 Voltage (High Range).		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISCONNECT 1 = CONNECT
E-0012	BAT2_BU_CHG	PWR
Data Type: STATUS # Bits: 1	Description: BAT2_BU_CHARGE_PATH Data Range:	Channel Type: DISCRETE MUX Address: 810C-3 Connector-Pin: J7-76
Gives Connect Status of Backup Battery Charge Regulator 2. Eg. connected to Battery 2 or not.		
Loss of Function: N/A. BCR 2 PR1 is redundant by BCR 2 B/U, PMS also monitors battery SOC and will command BU BCR 2 if SOC get too low on battery 2. Loss of PR1 and BU BCR1 results in loss of ability to recharge battery 2. Recommended Action: Check alternate TLM. If (and only if) battery cannot be charged then command other battery to a 12.5 amp charge rate for aerobraking or 10 amp charge rate for mapping eclipse operations. Impact of Loss of Tlm: Must use alternate TLM to verify BU BCR 2 Connected. or Charge Path Disconnected. Alternate Telemetry: E-0011 (BAT2_PR_CHG), E-0013 (BAT1_CHG_CFG) Related Measurements: E-0111 (BAT2_HI_V), Battery 2 Voltage (High Range).		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISCONNECT 1 = CONNECT

EDF TELEMETRY

BAT2_CHG_CFG		
E-0013		PWR
Data Type: STATUS # Bits: 1	Description: BAT2_CHARGE_CONFIG Data Range:	Channel Type: DISCRETE MUX Address: 810B-5 Connector-Pin: J12-11
Gives primary or backup status of battery charge regulator 2.		
<p>Loss of Function: N/A. BCR 2 PR1 is redundant by BCR 2 B/U, PMS also monitors battery SOC and will command BU BCR 2 if SOC get too low on battery 2. Loss of PR1 and BU BCR2 results in loss of ability to recharge battery 2.</p> <p>Recommended Action: Check alternate TLM. If (and only if) battery cannot be charged then command other battery to a 12.5 amp charge rate for aerobraking or 10 amp charge rate for mapping eclipse operations.</p> <p>Impact of Loss of Tlm: Must use alternate TLM to determine BCR2 chargepath relay status.</p> <p>Alternate Telemetry: E-0011 (BAT2_PR_CHG), E-0012 (BAT2_BU_CHG)</p> <p>Related Measurements: E-0011 (BAT2_PR_CHG), E-0012 (BAT2_B/U_CHG)</p>		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BACK_UP 1 = PRIMARY
E-0014	BAT2_TRK_ENA	PWR
Data Type: STATUS # Bits: 1	Description: BAT2_TRICKLE_ENABLE Data Range:	Channel Type: DISCRETE MUX Address: 810B-7 Connector-Pin: J12-75
Battery 2 C/100 trickle charge enable status.		
<p>Loss of Function: N/A. Indication of Battery 2 external trickle charge can be monitored by Battery voltages E-0111.</p> <p>Recommended Action: Check E-0111 telemetry for battery 2 voltage. If no indication of charge, periodic connection of the BCR at the 0.85 amp charge rate will be required to maintain battery charge state.</p> <p>Impact of Loss of Tlm: Must use alternate telemetry to determine battery 2 charge path relay status.</p> <p>Alternate Telemetry: Check E-0111 telemetry for battery 2 voltage.</p> <p>Related Measurements: E-0111 (BAT2_HI_V)</p>		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE

EDF TELEMETRY

E-0015	BAT2_TRK_ON	PWR
Data Type: STATUS # Bits: 1	Description: BAT2_TRICKLE_ON Data Range:	Channel Type: DISCRETE MUX Address: 810B-3 Connector-Pin: J7-75
Battery 2 C/100 trickle charge on status.		
Loss of Function: N/A. Indication of Battery 2 external trickle charge can be monitored by Battery voltages E-0111.		
Recommended Action: Check E-0111 telemetry for battery 2 voltage. If no indication of charge, periodic connection of the BCR at the 0.85 amp charge rate will be required to maintain battery charge state.		
Impact of Loss of Tlm: Must use alternate telemetry to determine battery 2 charge path relay status.		
Alternate Telemetry: Check E-0111 telemetry for battery 2 voltage. Related Measurements: E-0111 (BAT2_HI_V)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF
E-0016	BAT2_VT_SHFT	PWR
Data Type: STATUS # Bits: 1	Description: BAT2_VT_SHIFT_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810C-5 Connector-Pin: J12-12
Gives Charge Control Voltage/Temperature (V/T) Shift Status of PRIMARY and BACKUP BATTERY CHARGE REGULATOR 2. Eg. Battery 2 to be charged using Shifted or Unshifted V/T curves.		
Loss of Function: N/A. BCR 2 PR1 is redundant by BCR 2 B/U, PMS also monitors battery SOC and will command BU BCR 2 if SOC get too low on battery 2. Loss of PR1 and BU BCR2 results in loss of ability to recharge battery 2.		
Recommended Action: Check alternate TLM. Select backup BCR. If (and only if) battery cannot be charged then command other battery to a 12.5 amp charge rate for aerobraking or 10 amp charge rate for mapping eclipse operations.		
Impact of Loss of Tlm: Must use alternate TLM to verify which set of V/T curves BCR 2 is using/commanded to use.		
Alternate Telemetry: E-0117 (BAT2_VT_LMIT) Related Measurements: E-0311 (BAT2_HI_V), Battery 2 Voltage (High Range).		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SHIFTED 1 = UNSHIFT

EDF TELEMETRY

PSE_BOST_REG		
E-0020	PWR	
Data Type: STATUS # Bits: 1	Description: PSE_BOOST_V_REG_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8117-6 Connector-Pin: J12-55
PSE Boost Voltage Regulator PR/BU Status.		
Loss of Function: Backup BVR provides redundancy for primary BVR. Loss of both primary and backup BVR would result in loss of mission. Recommended Action: Check alternate TLM. Impact of Loss of Tlm: Loss of status information. Alternate Telemetry: E-0143 (PSE_BVR_CHAN), E-0140 (PSE+28_BUS_V) Related Measurements: E-0022 (PSE_MODE_CRL)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BACK_UP 1 = PRIMARY
E-0021	PWR	
Data Type: STATUS # Bits: 1	Description: PSE_INTERFACE_SELECT Data Range:	Channel Type: DISCRETE MUX Address: 811B-4 Connector-Pin: J7-123
Gives PSE Command Decoder Interface Side status.		
Loss of Function: N/A. The PSE Command Decoder will be in Side 1 or Side 2. If ability to select sides is lost, then cross-strapping in the PSE command decoder will ensure commands are received by the PSE. Recommended Action: Reissue side select command if switching sides; otherwise no action. Impact of Loss of Tlm: Loss of PSE side select status information. Software can not verify the PSE has received a switch of selected sides command. Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_2 1 = SIDE_1

EDF TELEMETRY

E-0022		PSE_MODE_CRL	PWR
Data Type: STATUS # Bits: 1	Description: PSE_MODE_CNTL_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8117-3 Connector-Pin: J7-87	
PSE Mode Controller PRI BU status.			
Loss of Function: N/A. BU MC provides redundancy for PRI MC. Loss of PRI and BU MC results in loss of 28 V reg Bus and loss of mission.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of status information of MC.			
Alternate Telemetry: None.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BACK_UP 1 = PRIMARY	
E-0101	BAT1_HI_V	PWR	
Data Type: UNSIGNED # Bits: 8	Description: BAT1_VOLTAGE_HIGH_RANGE Data Range: 12.605:28.466	Channel Type: HL ANALOG MUX Address: 8247 Connector-Pin: J8-40	
Gives the Voltage of Battery 1. This is also used by the Power Management Software in its Battery Charge management.			
Loss of Function: N/A. Battery can not be disconnected from its discharge path in flight (i.e. once in the Flight Enable Plug is installed).			
Recommended Action: Check alternate TLM.			
Impact of Loss of Tlm: Loss of Battery 1 full battery voltage info. The PMS will notify REDMAN of sensor loss and disallow autonomous trickle charging of Battery 1.			
Alternate Telemetry: E-0103 (BAT1_HALF_V), E-0111 (BAT2_HI_V)			
Related Measurements: See Alternate Telemetry above.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.26113E+01 n1 = 6.21702E-02	

EDF TELEMETRY

E-0102	BAT1_LO_V	PWR
Data Type: UNSIGNED # Bits: 8	Description: BAT1_VOLTAGE_LOW_RANGE Data Range: -0.072:14.742	Channel Type: HL ANALOG MUX Address: 8292 Connector-Pin: J9-18
Gives the Voltage of Battery 1 at lower than nominal ranges.		
Loss of Function: N/A. Battery can not be disconnected from its discharge path in flight (i.e. once in the Flight Enable Plug is installed).		
Recommended Action: None.		
Impact of Loss of Tlm: Loss of Battery 1 full battery voltage information.		
Alternate Telemetry: E-0103 (BAT1_HALF_V), E-0101 (BAT1_HI_V) Related Measurements: See Alternate Telemetry above.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -9.37954E-02 n1 = 5.81538E-02
E-0103	BAT1_HALF_V	PWR
Data Type: UNSIGNED # Bits: 8	Description: BAT1_HALF_VOLTAGE Data Range: 6.377:13.890	Channel Type: HL ANALOG MUX Address: 832A Connector-Pin: J10-42
Gives the voltage of 8 cells of battery 1 for comparison to (the full 16 cell voltage) Battery 1 Voltage (High Range) during nominal operation.		
Loss of Function: N/A. Battery can not be disconnected from its discharge path in flight (i.e. once in the Flight Enable Plug is installed).		
Recommended Action: None.		
Impact of Loss of Tlm: Loss of Battery 1 Pack A voltage. Inability to determine which of packs 2A or 2B have shorted battery cell. Reduced monitoring capability of Battery 1.		
Alternate Telemetry: E-0101 (BAT1_HI_V), E-0102 (BAT1_LO_V) Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: ON CCL Param: 0	Coefficients: n0 = 6.18334E+00 n1 = 3.04406E-02

EDF TELEMETRY

E-0104	BAT1_CHRG_RT		PWR
Data Type: UNSIGNED # Bits: 8	Description: BAT1_CHARGE_RATE_STATUS Data Range:	Channel Type: HL ANALOG MUX Address: 8395 Connector-Pin: J11-21	
Gives the latest commanded constant current charge rate as received by the PSE serial interface. This is used by PMS to verify the PSE has received a charge rate command (i.e. Battery 1 Set 10.0A Charge Current Limit). This is also used to track subsystem configuration.			
Loss of Function: Maybe only one charge rate cannot be commanded. Battery 1 may be stuck in a Charge Rate. If stuck in .85 A rate energy balance could get negative.			
Recommended Action: Check Alternate TLM. If verify BCR 1 stuck in .85 A charge rate, try commanding other charge rates (i.e. if 10A didn't work try the 12.5A charge rate) or BU BCR 1 and/or switch PSE side select to other side.			
Impact of Loss of Tlm: PMS unable to verify PSE received Battery 1 Set Charge Current Limits (4 commands) or set both Battery Charge Current Limits (3 commands). PMS will 1) command PSE (other) Side Select and 2) notify REDMAN.			
Alternate Telemetry: E-0105 (BAT1_CHRG_I), E-0114, BAT2_CHRG_RT) Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: TABLE EU Units: AMPS CCL Process: OFF CCL Param: 0	DN-EU Pairs: dn1 = 0 eu1 = 0.85 dn2 = 74 eu2 = 0.85 dn2 = 75 eu3 = 7.5 dn4 = 124 eu4 = 7.5	dn5 = 125 eu5 = 10.0 dn6 = 174 eu6 = 10.0 dn7 = 175 eu7 = 12.5 dn8 = 255 eu8 = 12.5
E-0105	BAT1_CHRG_I		PWR
Data Type: UNSIGNED # Bits: 8	Description: BAT1_CHARGE_CURRENT Data Range: 0.009:21.000	Channel Type: HL ANALOG MUX Address: 830A Connector-Pin: J10-10	
Gives the Charge Current into Battery 1. This is also used by the Power Management Software in its Battery Charge management.			
Loss of Function: N/A BCR1 Pri is redundant by BCR1 B/U. PMS also monitors battery SOC and will command BU BCR1. If SOC gets too low on Battery 1. Loss of Pri and BU BCR 1 results in loss of ability to recharge Battery 1.			
Recommended Action: Check alternate TLM. If (and only if) battery is not being charged then command other battery to a 12.5 amp charge rate for aerobraking or 10 amp charge rate for mapping eclipse operations.			
Impact of Loss of Tlm: Loss will stop nominal Battery 1 Charge calculation using this TLM and will begin Bat Charge calculation using a Default Method which assumes 0.85A as the charge current during Sun-time. Battery 1 will be charged with constant current, then VT.			
Alternate Telemetry: E-0115 (BAT2_CHRG_I), E-0101, (BAT1_HI_V) Related Measurements: E-0101 (BAT1_HI_V); E-0102 (BAT1_LO_V)			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.91395E-02 n1 = 8.24898E-02	

EDF TELEMETRY

E-0106	BAT1_DCHG_I		PWR																
Data Type: UNSIGNED # Bits: 8	Description: BAT1_DISCHG_CURRENT Data Range: -0.382:30.611	Channel Type: HL ANALOG MUX Address: 838A Connector-Pin: J11-10																	
Gives the Discharge Current from Battery 1. This is also used by the Power Management Software in its Battery Charge management.																			
Loss of Function: N/A. Battery can not be disconnected from its discharge path in flight (i.e. once the Main Enable Plug is installed).																			
Recommended Action: Check alternate TLM. Monitor battery for eclipse operations. Impact of Loss of Tlm: Loss will stop nominal Battery 1 discharge calculations using this TLM. PMS will begin Bat Discharge calcs using a Default Method which assumes 25A discharge current during eclipse. PMS will disallow this battery for contingency actions (e.g. C-mode) Alternate Telemetry: E-0116 (BAT2_DCHG_I), E-0105 (BAT1_CHRG_I). Related Measurements: E-0101 (BAT1_HI_V)																			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -9.80015E-01 n1 = 1.33583E-01																	
E-0107	BAT1_VT_LMIT		PWR																
Data Type: UNSIGNED # Bits: 8	Description: BAT1_VT_LIMIT_STATE Data Range:	Channel Type: HL ANALOG MUX Address: 8392 Connector-Pin: J11-18																	
Gives the latest commanded voltage temperature charge limit for Battery 1 as received by the PSE serial interface. Used by PMS to verify the PSE has received a charge VT limit set command. (eg. Battery 1 set VT Limit 4). Also used to track subsystem configuration. VT limits to telemetry volts relationship is VT1=1.0v, VT2=1.5v, VT3=2.0v, VT4=2.5v, VT5=3.0v, VT6=3.5v, VT7=4.0v, VT8=4.5v.																			
Loss of Function: Possible over or under charge of Battery 1.																			
Recommended Action: Check Alternate TLM. If verify BCR 1 stuck in VT limit, try commanding other VT limits (e.g. if VT4 didn't work try VT4) and/or switch PSE side select to other side. Impact of Loss of Tlm: PMS unable to verify PSE received Battery 1 set VT Limits (8 commands) or Set Both Battery Charge Current Limits (16 commands). PMS will thus 1) command PSE (other) Side Select and 2) notify REDMAN. Alternate Telemetry: E-0105, E-0104, E-0101, T-0200, T-0201 Related Measurements: None																			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: TABLE EU Units: VT_LIM CCL Process: OFF CCL Param: 0	DN-EU Pairs: <table> <tr><td>dn1 = 0</td><td>dn5 = 88</td></tr> <tr><td>eu1 = 1</td><td>eu5 = 3</td></tr> <tr><td>dn2 = 62</td><td>dn6 = 112</td></tr> <tr><td>eu2 = 1</td><td>eu6 = 3</td></tr> <tr><td>dn2 = 63</td><td>dn7 = 113</td></tr> <tr><td>eu3 = 2</td><td>eu7 = 4</td></tr> <tr><td>dn4 = 87</td><td>dn8 = 137</td></tr> <tr><td>eu4 = 2</td><td>eu8 = 4</td></tr> </table>	dn1 = 0	dn5 = 88	eu1 = 1	eu5 = 3	dn2 = 62	dn6 = 112	eu2 = 1	eu6 = 3	dn2 = 63	dn7 = 113	eu3 = 2	eu7 = 4	dn4 = 87	dn8 = 137	eu4 = 2	eu8 = 4	
dn1 = 0	dn5 = 88																		
eu1 = 1	eu5 = 3																		
dn2 = 62	dn6 = 112																		
eu2 = 1	eu6 = 3																		
dn2 = 63	dn7 = 113																		
eu3 = 2	eu7 = 4																		
dn4 = 87	dn8 = 137																		
eu4 = 2	eu8 = 4																		

EDF TELEMETRY

E-0108		BAT1_PRESS_1	PWR			
Data Type: UNSIGNED # Bits: 8	Description: BAT1_PRESSURE_SENSOR_1 Data Range: -29958:781.124	Channel Type: HL ANALOG MUX Address: 8314 Connector-Pin: J10-20				
Battery 1 Pressure indicator 1.						
Loss of Function: N/A. Loss of cell pressure indicates loss of battery capacity or stored energy.						
Recommended Action: PMS software will switch to backup BCR if the calculated state of charge drops below programmed limits.						
Impact of Loss of Tlm: N/A. E-0109 serves as a backup.						
Alternate Telemetry: E-0109 (BAT1_PRES_2) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: PSI CCL Process: ON CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 3.10920E+00 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.10920E+00
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.10920E+00				
E-0109		BAT1_PRESS_2	PWR			
Data Type: UNSIGNED # Bits: 8	Description: BAT1_PRESSURE_SENSOR_2 Data Range: 0.645:811.571	Channel Type: HL ANALOG MUX Address: 82AB Connector-Pin: J9-43				
Battery 1 Pressure indicator 2.						
Loss of Function: N/A. Loss of cell pressure indicates loss of battery capacity or stored energy.						
Recommended Action: PMS software will switch to backup BCR if the calculated state of charge drops below programmed limits.						
Impact of Loss of Tlm: N/A. E-0108 serves as a backup.						
Alternate Telemetry: E-0108 (BAT1_PRES_1) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: PSI CCL Process: ON CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 3.18480E+00 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.18480E+00
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.18480E+00				

EDF TELEMETRY

E-0111	BAT2_HI_V	PWR
Data Type: UNSIGNED # Bits: 8	Description: BAT2_VOLTAGE_HIGH_RANGE Data Range: 12.642:28.501	Channel Type: HL ANALOG MUX Address: 8282 Connector-Pin: J9-2
Gives the Voltage of Battery 2.		
Loss of Function: N/A. Battery can not be disconnected from its discharge path in flight (i.e. once in the Flight Enable Plug is installed).		
Recommended Action: Check alternate TLM. Impact of Loss of Tlm: Loss of Battery 2 full battery voltage info. The PMS will notify REDMAN of sensor loss and disallow autonomous trickle charging of Battery 2. Alternate Telemetry: E-0113 (BAT2_HALF_V), E-0101 (BAT1_HI_V). Related Measurements: See Alternate Telemetry above.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.25006E+01 n1 = 6.38993E-02
E-0112	BAT2_LO_V	PWR
Data Type: UNSIGNED # Bits: 8	Description: BAT2_VOLTAGE_LOW_RANGE Data Range: -0.074:14.761	Channel Type: HL ANALOG MUX Address: 829A Connector-Pin: J9-26
Gives the Voltage of Battery 2 at lower than nominal range.		
Loss of Function: N/A. Battery can not be disconnected from its discharge path in flight (i.e. once in the Flight Enable Plug is installed).		
Recommended Action: None Impact of Loss of Tlm: Loss of Battery 1 full battery voltage information. Alternate Telemetry: E-0113 (BAT2_HALF_V), E-0111 (BAT2_HI_V) Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -9.01958E-02 n1 = 5.83769E-02

EDF TELEMETRY

E-0113	BAT2_HALF_V	PWR
Data Type: UNSIGNED # Bits: 8	Description: BAT2_HALF_VOLTAGE Data Range: 6.425 : 13.960	Channel Type: HL ANALOG MUX Address: 83AA Connector-Pin: J11-42
Gives the voltage of the lower 8 cells of Battery 2 for comparison to (the full 16 cell voltage) Battery 2 Voltage (high range) during nominal operation.		
Loss of Function: N/A. Battery can not be disconnected from its discharge path in flight (i.e. once in the Flight Enable Plug is installed).		
Recommended Action: None.		
Impact of Loss of Tlm: Loss of Battery 1 Pack A voltage. Inability to determine which of packs 2A or 2B have shorted battery cell. Reduced monitoring capability of Battery 1.		
Alternate Telemetry: E-0111 (BAT2_HI_V), E-0112 (BAT2_LO_V) Related Measurements: See Alternate Telemetry above.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: ON CCL Param: 0	Coefficients: n0 = 6.23131E+00 n1 = 3.05507E-02
E-0114	BAT2_CHRG_RT	PWR
Data Type: UNSIGNED # Bits: 8	Description: BAT2_CHARGE_RATE_STATUS Data Range:	Channel Type: HL ANALOG MUX Address: 831A Connector-Pin: J10-26
Gives the latest commanded constant current charge rate as received by the PSE serial interface. This is used by Power Management Software to verify the PSE has received a charge rate command (e.g. Battery 2 Set 10.0A Charge Current Limit). This is also used to track subsystem configuration.		
Loss of Function: Maybe only one charge rate cannot be commanded. Battery 2 may be stuck in a Charge Rate. If stuck in .85 A rate energy balance could get negative.		
Recommended Action: Check Alternate TLM. If verify BCR 2 stuck in .85 A charge rate, try commanding other charge rates (i.e. if 10A didn't work try the 12.5A charge rate) or BU BCR 2 and/or switch PSE side select to other side.		
Impact of Loss of Tlm: PMS unable to verify PSE received Battery 2 Set Charge Current Limits (4 commands) or set both Battery Charge Current Limits (3 commands). PMS will 1) command PSE (other) Side Select and 2) notify REDMAN.		
Alternate Telemetry: E-0115 (BAT2_CHRG_I), E-0104 (BAT1_CHRG_RT) Related Measurements: None.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: TABLE EU Units: AMPS CCL Process: OFF CCL Param: 0	DN-EU Pairs: dn1 = 0 eu1 = .85 dn2 = 74 eu2 = 0.85 dn2 = 75 eu3 = 7.5 dn4 = 124 eu4 = 7.5 dn5 = 125 eu5 = 10.0 dn6 = 174 eu6 = 10.0 dn7 = 175 eu7 = 12.5 dn8 = 255 eu8 = 12.5

EDF TELEMETRY

E-0115	BAT2_CHRG_I		PWR
Data Type: UNSIGNED # Bits: 8	Description: BAT2_CHARGE_CURRENT Data Range: -0.025:21.069	Channel Type: HL ANALOG MUX Address: 82C7 Connector-Pin: J9-55	
Gives the Charge Current into Battery 2. This is also used by the Power Management Software in its Battery Charge management.			
Loss of Function: N/A. BCR 2 Primary is redundant by BCR 2 B/U. PMS also monitors battery SOC and will command B/U BCR 2 if SOC get too low on Battery 2. Loss of primary and backup BCR 2 results in loss of ability to recharge Battery 2.			
Recommended Action: Check alternate TLM. If (and only if) battery is not being charged then command other battery to a 12.5 amp charge rate for aerobraking or 10 amp charge rate for mapping eclipse operations.			
Impact of Loss of Tlm: Loss will stop nominal Battery 2 Charge calculation using this TLM and will begin Bat Charge calculation using a Default Method which assumes 0.85A as the charge current during Sun-time. Battery 2 will be charged with constant current, then VT.			
Alternate Telemetry: E-0105 (BAT1_CHRG_I), E-0111 (BAT2_HI_V) Related Measurements: E-0111 (BAT2_HI_V)			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: ON CCL Param: 0	Coefficients: n0 = -2.49456E-03 n1 = 8.23766E-02	
E-0116	BAT2_DCHG_I		PWR
Data Type: UNSIGNED # Bits: 8	Description: BAT2_DISCHIG_CURRENT Data Range: -0.086:30.227	Channel Type: HL ANALOG MUX Address: 83C8 Connector-Pin: J11-56	
Gives the Discharge Current from Battery 2. This is also used by the Power Management Software in its Battery Charge management.			
Loss of Function: N/A. Battery can not be disconnected from its discharge path in flight (e.g. once the Main Enable Plug is installed).			
Recommended Action: Check Alternate TLM. Monitor battery for eclipse operations.			
Impact of Loss of Tlm: Loss will stop nominal Battery 2 discharge calculations using this TLM. PMS will begin Bat Discharge calcs using a Default Method which assumes 25A discharge current during eclipse. PMS will disallow this battery for contingency actions (e.g. C-mode)			
Alternate Telemetry: E-0106 (BAT1_DCHRG_I), E-0115 (BAT2_CHRG_I) Related Measurements: E-0111 (BAT2_HI_V)			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: ON CCL Param: 0	Coefficients: n0 = -9.94159E-01 n1 = 1.32972E-01	

EDF TELEMETRY

E-0117	BAT2_VT_LMIT		PWR
Data Type: UNSIGNED # Bits: 8	Description: BAT2_VT_LIMIT_STATE Data Range:	Channel Type: HL ANALOG MUX Address: 8298 Connector-Pin: J9-24	
Gives the latest commanded voltage temperature charge limit for Battery 2 as received by the PSE serial interface. Used by PMS to verify the PSE has received a charge VT limit set command. (eg. Battery 2 set VT Limit 4). Also used to track subsystem configuration. VT limits to telemetry volts relationship is VT1=1.0v, VT2=1.5v, VT3=2.0v, VT4=2.5v, VT5=3.0v, VT6=3.5v, VT7=4.0v, VT8=4.5v.			
Loss of Function: Possible over or under charge of Battery 2.			
Recommended Action: Check Alternate TLM. If verify BCR 2 stuck in VT Limit, try commanding other VT Limits (i.e. if VT4 didn't work try the VT3) or BU BCR 2 and/or switch PSE side select to other side.			
Impact of Loss of Tlm: Unable to verify receipt of VT limit current commands.			
Alternate Telemetry: E-0115, E-0114, E-0111, T-0202, T-0203 Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: TABLE EU Units: VT_LIM CCL Process: OFF CCL Param: 0	DN-EU Pairs: dn1 = 0 eu1 = 1 dn2 = 62 eu2 = 1 dn2 = 63 eu3 = 2 dn4 = 87 eu4 = 2	dn5 = 88 eu5 = 3 dn6 = 112 eu6 = 3 dn7 = 113 eu7 = 4 dn8 = 137 eu8 = 4
E-0118	BAT2_PRESS_1		PWR
Data Type: UNSIGNED # Bits: 8	Description: BAT2_PRESSURE_SENSOR_1 Data Range: -0.663:855.564	Channel Type: HL ANALOG MUX Address: 83A3 Connector-Pin: J11-35	
Battery 2 Pressure indicator 1.			
Loss of Function: N/A. Loss of cell pressure indicates loss of battery capacity or stored energy.			
Recommended Action: PMS software will switch to backup BCR if the calculated state of charge drops below programmed limits.			
Impact of Loss of Tlm: N/A. E-0119 serves as a backup.			
Alternate Telemetry: E-0119 (BAT2_PRES_2) Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.20520E+00	

EDF TELEMETRY

BAT2_PRESS_2					
E-0119	PWR				
Data Type: UNSIGNED # Bits: 8	Description: BAT2_PRESSURE_SENSOR_2 Data Range: 41.781:824.075	Channel Type: HL ANALOG MUX Address: 8242 Connector-Pin: J8-35			
Battery 2 Pressure indicator 2.					
Loss of Function: N/A. Loss of cell pressure indicates loss of battery capacity or stored energy.					
Recommended Action: PMS software will switch to backup BCR if the calculated state of charge drops below programmed limits.					
Impact of Loss of Tlm: N/A. E-0118 serves as a backup.					
Alternate Telemetry: E-0118 (BAT2_PRES_1) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px;"> Conversion Type: POLY EU Units: PSI CCL Process: ON CCL Param: 0 </td> <td style="padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 3.37840E+00 </td> </tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.37840E+00
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.37840E+00			
E-0130	SA_OUTPUT_I				
Data Type: UNSIGNED # Bits: 8	Description: SOLAR_ARRAY_OUTPUT_I Data Range: -10560:35.678	Channel Type: HL ANALOG MUX Address: 82C9 Connector-Pin: J9-57			
Gives the solar array (S/A) output current used by the SC loads and batteries.					
Loss of Function: N/A. Multiple isolated S/A circuits are connected to SC via multiple wiring. Loss of S/A bus results in loss of missoin.					
Recommended Action: Check Alternate TLM.					
Impact of Loss of Tlm: Increased difficulty and decreased accuracy of S/A output current measurement and S/A capability.					
Alternate Telemetry: E-0105, E-0115, E-0141 Related Measurements: E-0137, E-0105, E-0106, E-0115, E-0116, E-0131, E-0132					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px;"> Conversion Type: POLY EU Units: AMPS CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"> Coefficients: n0 = -1.05605E+01 n1 = 1.81328E-01 </td> </tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.05605E+01 n1 = 1.81328E-01
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.05605E+01 n1 = 1.81328E-01			

EDF TELEMETRY

E-0131	SA+Y_I	PWR
Data Type: UNSIGNED # Bits: 8	Description: SOLAR_ARRAY+_Y_CURRENT Data Range: 0.297:61.542	Channel Type: HL ANALOG MUX Address: 8323 Connector-Pin: J10-35
+Y solar array total current production.		
Loss of Function: Complete loss of panel would result in loss of mission.		
Recommended Action: Verify that panel is normal to the sun, correct off-pointing if possible.		
Impact of Loss of Tlm: Loss of resolution in monitoring solar array performance.		
Alternate Telemetry: E-0130, E-0132		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 2.97357E-01 n1 = 2.40174E-01
E-0132	SA-Y_I	PWR
Data Type: UNSIGNED # Bits: 8	Description: SOLAR_ARRAY_-Y_CURRENT Data Range: -0.111:62.000	Channel Type: HL ANALOG MUX Address: 839B Connector-Pin: J11-27
-Y solar array total current production.		
Loss of Function: Complete loss of panel would result in loss of mission.		
Recommended Action: Verify that panel is normal to the sun, correct off-pointing if possible.		
Impact of Loss of Tlm: Loss of resolution in monitoring solar array performance.		
Alternate Telemetry: E-0130, E-0131		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: ON CCL Param: 0	Coefficients: n0 = -1.11416E-01 n1 = 2.43575E-01

EDF TELEMETRY

E-0133	SA+Y_Isc_I		PWR
Data Type: UNSIGNED # Bits: 8	Description: SA+_Y_SHORT_CIRCUIT_CURRENT Data Range: -2.090:737.382	Channel Type: HL ANALOG MUX Address: 82A3 Connector-Pin: J9-35	
Gives the short circuit current of sample solar cells on +Y solar array. Used for S/A performance analysis. Used by the PMS in its day-to-night and night-to-day transition determination.			
Loss of Function: Increased difficulty and reduced accuracy of S/A capability determination. PMS will use battery charge current TLM and S/A current TLM for its Night/Day and Day/Night transition determinations.			
Recommended Action: Check alternate TLM.			
Impact of Loss of Tlm: Increased difficulty and reduced accuracy of S/A capability determination. PMS will use battery charge current TLM and S/A current TLM for its Night to Day and Day to Night transition determinations.			
Alternate Telemetry: E-0134 (SA-Y_Isc_I). Related Measurements: E-0135, E-0136			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: mAMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -2.09032E+00 n1 = 2.89989E+00	
E-0134	SA-Y_Isc_I		PWR
Data Type: UNSIGNED # Bits: 8	Description: SA-_Y_SHORT_CIRCUIT_CURRENT Data Range: -3.066:742.515	Channel Type: HL ANALOG MUX Address: 831B Connector-Pin: J10-27	
Gives the short circuit current of sample solar cells on -Y solar array. Used for S/A performance analysis. Used by the Power Management Software in its day-to-night and night-to-day transition determination.			
Loss of Function: Increased difficulty and reduced accuracy of S/A capability determinations. PMS will use battery charge current TLM and S/A current TLM for its Night to Day and Day to Night transition determinations.			
Recommended Action: Ckeck Alternate TLM.			
Impact of Loss of Tlm: Increased difficulty and reduced accuracy of S/A capability determination. PMS wil use battery charge current TLM and S/A current TLM for its Night to Day and Day to Night translation determinations.			
Alternate Telemetry: E-0133 (SA+Y_Isc_I). Related Measurements: E-0135, E-0136			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: mAMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -3.06597E+00 n1 = 2.92385E+00	

EDF TELEMETRY

E-0135	SA+Y_Voc_V	PWR
Data Type: UNSIGNED # Bits: 8	Description: SA+_Y_OPEN_CIRCUIT_VOLTAGE Data Range: 0.000:85.425	Channel Type: HL ANALOG MUX Address: 82C1 Connector-Pin: J9-49
Gives the open circuit voltage of sample solar cells on the +Y solar array. Output voltage used by mission OPS to determine solar array voltage degradation for solar array/power subsystem capability analysis.		
Loss of Function: N/A. Multiple isolated S/A circuits are connected to SC via multiple wiring.		
Recommended Action: Check alternate TLM.		
Impact of Loss of Tlm: Increased difficulty and decreased accuracy of S/A capability calculation.		
Alternate Telemetry: E-0136 (SA-Y_Voc_V). Related Measurements: E-0133, E-0134		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.35000E-01
E-0136	SA-Y_Voc_V	PWR
Data Type: UNSIGNED # Bits: 8	Description: SA-_Y_OPEN_CIRCUIT_VOLTAGE Data Range: 0.000:85.425	Channel Type: HL ANALOG MUX Address: 83CD Connector-Pin: J11-61
Gives the open circuit voltage of sample solar cells on the -Y solar array. Output voltage used by mission ops to determine solar array voltage degradation for solar array/power subsystem capability analysis.		
Loss of Function: N/A. Multiple isolated S/A circuits are connected to SC via multiple wiring.		
Recommended Action: Check alternate TLM.		
Impact of Loss of Tlm: Increased difficulty and decreased accuracy of S/A capability calculation.		
Alternate Telemetry: E-0135 (SA+Y_Voc_V). Related Measurements: E-0133, E-0134		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.35000E-01

EDF TELEMETRY

E-0137	SA_PAR_SH_V		PWR
Data Type: UNSIGNED # Bits: 8	Description: SA_PARTIAL_SHUNT_VOLTAGE Data Range: 0.000:20.039	Channel Type: HL ANALOG MUX Address: 8393 Connector-Pin: J11-19	
Gives the average voltage of the Partial Shunt Assemblies (PSA). Used in conjunction with S/A Partial Shunt Current 1 & 2 to monitor PSA shunt dissipations. Also used by Power Analyst in S/A Capability analysis.			
Loss of Function: N/A. 22 PSAs. Design includes loss of one PSA short. Loss of more than one PSA shorted will reduce power capability margins. Can lose two or more PSA open without reduction in capability.			
Recommended Action: Check alternate telemetry.			
Impact of Loss of Tlm: Loss of PSA voltage information. More difficult for monitoring of total shunt dissipation and of S/A capability.			
Alternate Telemetry: E-0131 (SA+Y_I), E-0132 (SA-Y_I). Related Measurements: E-0130			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: ON CCL Param: 0	Coefficients: n0 = -1.57449E-02 n1 = 7.87247E-02	
E-0140	PSE+28_BUS_V		PWR
Data Type: UNSIGNED # Bits: 8	Description: PSE_+28V_REG_BUS_VOLTAGE Data Range: 19.935:31.695	Channel Type: HL ANALOG MUX Address: 8383 Connector-Pin: J11-3	
Gives the voltage at the Regulation point of the SC +28V Power Bus. Used to monitor Power Subsystem voltage regulation.			
Loss of Function: N/A. The mode controller (MC) in the PSE regulates the 28V bus voltage. Backup MC provides redundancy for primary MC. Loss of primary and backup MC results in loss of 28V regulated bus and loss of mission.			
Recommended Action: None.			
Impact of Loss of Tlm: Loss of +28V Regulated Bus Voltage information. Not mission critical. Bus is regulated totally autonomously. No ground assistance required. Bus will be +28V +.56/- .3 at all times during mission except for fault conditions.			
Alternate Telemetry: None. Related Measurements: Input Reg. 28V voltage TLM of appropriate box in another Subsystem.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: ON CCL Param: 0	Coefficients: n0 = 1.99422E+01 n1 = 4.60307E-02	

EDF TELEMETRY

E-0141	PSE+28_BUS_I	PWR
Data Type: UNSIGNED # Bits: 8	Description: PSE+28V_REG_BUS_CURRENT Data Range: -3.583:39.043	Channel Type: HL ANALOG MUX Address: 828B Connector-Pin: J9-11
Gives the current at the Regulation point of the SC +28V Power Bus. Used to monitor Power Subsystem total power output. Also can be used to measure individual loads by stepping them ON or OFF.		
Loss of Function: N/A. +28V regulated bus autonomously supplies load current as required by loads. Loss of 28V regulated bus would result in loss of mission.		
Recommended Action: Check Alternate Telemetry.		
Impact of Loss of Tlm: Loss of ability to directly measure the total output of the +28V Regulated Bus. More difficult to measure Power Subsystem performance.		
Alternate Telemetry: Related Measurements: E-0130, E-0105, E-0106, E-0115, E-0116		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -3.58258E+00 n1 = 1.67158E-01
E-0142	PSE_PL_BUS_I	PWR
Data Type: UNSIGNED # Bits: 8	Description: PSE_PA_BUS_CURRENT Data Range: -1.986:6.358	Channel Type: HL ANALOG MUX Address: 830B Connector-Pin: J10-01
Gives the current at the Regulation point of the SC +28V Payload Bus. Used to monitor Power Subsystem total Payload power consumption. Also can be used to measure individual payloads by stepping them ON or OFF.		
Loss of Function: N/A. Payload bus is always powered from the 28V regulated bus via multiple redundant wiring. Individual payloads 28V power may be switched ON/OFF by the SCU of the C&DH Subsystem.		
Recommended Action: Check alternate TLM.		
Impact of Loss of Tlm: Loss of ability to directly measure the total Payload power output of the +28V Regulated Bus. More difficult to measure individual Payload power consumption.		
Alternate Telemetry: E-0141 (PSE+28_BUS_I) Related Measurements: E-0141 (PSE+28_BUS_I)		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.98596E+00 n1 = 3.27201E-02

EDF TELEMETRY

E-0143	PSE_BVR_CHAN		PWR
Data Type: UNSIGNED # Bits: 8	Description: PSE_BVR_STATUS Data Range:	Channel Type: HL ANALOG MUX Address: 8346 Connector-Pin: J10-54	
Gives number of functional Boost Voltage Regulator (BVR) channels. Used to indicate a fault in one channel reducing BVR power stage channels from 5 to 4.			
Loss of Function: N/A. BVR has 5 channels. This mission can be performed on 4 channels. Loss of more than one channel reduces off sun power subsystem peak power output capability below designed value of 672W.			
Recommended Action: If a channel is lost, must be careful of peak loads demanded from SC active load management steps by the ground may be necessary for maneuvers.			
Impact of Loss of Tlm: Loss of fault status of BVR. This is information for state of health only. The BVR is totally autonomous.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: TABLE EU Units: nCHAN CCL Process: OFF CCL Param: 0	DN-EU Pairs: dn1 = 0 eu1 = 0 dn2 = 43 eu2 = 0 dn2 = 44 eu3 = 1 dn4 = 85 eu4 = 1	dn5 = 86 eu5 = 2 dn6 = 127 eu6 = 2 dn7 = 128 eu7 = 3 dn8 = 170 eu8 = 3
I-0001	ER_COVER_POS		PYLD
Data Type: STATUS # Bits: 1	Description: ER_COVER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810C-6 Connector-Pin: J12-44	
Indicates that 28 volt power is applied to open the ER cover. The command to open the cover will only be sent once, for about 5 seconds.			
Loss of Function: Cannot open the cover if the command to open it cannot be sent. If the command to close fails, i.e. power remains on, no harm will occur as after the cover opens in about 200 msec, the power drops to zero.			
Recommended Action: Verify cover position by reading T-0221 temperature which should indicate a change in the ER temperature after cover is opened. Note that the MAG_SENSOR_HTR circuit must be powered on for this temperature sensor to be valid.			
Impact of Loss of Tlm: Unable to verify state of cover open command.			
Alternate Telemetry: T-0221 ER_SENSOR_T Related Measurements: Examine the MAG/ER source packet for the cover status telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF	

EDF TELEMETRY

I-0003	MAG_A_PWR		PYLD
Data Type: STATUS # Bits: 1	Description: MAG_A_POWER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8101-8 Connector-Pin: J12-97	
Indicates power on/off to MAG/ER side A. All instrument functions are powered by this 28 volt line except for ER cover actuation. Note that the ER is commanded on/off via internal MAG/ER software command.			
Loss of Function: Loss of A side operation. Cannot operate the instrument if redundant side B does not work as well. May have a blown fuse.			
Recommended Action: After calling PI (Mario Acuna) and the Payload Engineer, switch to Side B if functional . (See CMD: IMPWBN - MAG_ER_B_POWER_ON, and TLM: I-0004 MAG_B_PWR)			
Impact of Loss of Tlm: Unable to directly verify applicaton of instrument 28 volt power on side A. MAG temperature telemetry may provide some relevent information.			
Alternate Telemetry: T-0223, T-0224, T-0222			
Related Measurements: Must examine the content of the MAG/ER sourse packets.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF	
I-0004	MAG_B_PWR		PYLD
Data Type: STATUS # Bits: 1	Description: MAG_B_POWER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8101-4 Connector-Pin: J7-97	
Indicates power on/off to MAG/ER side B. All instrument functions are powered by this 28 volt line except for ER cover actuation. Note that the ER is commanded on/off via internal MAG/ER software command.			
Loss of Function: Loss of B side operation. Cannot operate the instrument if redundant side B does not work as well. May have a blown fuse.			
Recommended Action: After calling PI (Mario Acuna) and the Payload Engineer, switch to Side B if functional . (See CMD: IMPWAN - MAG_ER_A_POWER_ON, and TLM: I-0003 MAG_A_PWR)			
Impact of Loss of Tlm: Unable to directly verify applicaton of instrument 28 volt power on side B. MAG temperature telemetry may provide some relevent information.			
Alternate Telemetry: T-0223, T-0224, T-0222			
Related Measurements: Must examine the content of the MAG/ER sourse packets.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF	

EDF TELEMETRY

I-0005	MR_TRANS_EN		PYLD
Data Type: STATUS # Bits: 1	Description: MBR_XPONDER_ENABLE_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8101-7 Connector-Pin: J12-65	
Indicates Enable/Disable status of MR transponder .			
Loss of Function: MR transponder will not function if the transponder cannot be enabled. A level of command safety will be lost if the transponder cannot be disabled.			
Recommended Action: Call the MR IM (Andre Ribes) and the Payload Engineer. Monitor the MR Electronics Box temperature.			
Impact of Loss of Tlm: Loss of engineering TLM for the MR Transponder Enable status.			
Alternate Telemetry: See T-0226, MR_ELECT_T which may provide verification of transponder ON/OFF via temperature change.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	
I-0006	MR_TRANS_ST		PYLD
Data Type: STATUS # Bits: 1	Description: MBR_XPONDER_POWER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8101-3 Connector-Pin: J7-65	
Indicates On/Off status of MR transponder. Requires the transponder to be enabled for this function to be effective.			
Loss of Function: MR transponder will not turn on if function fails off. If function fails ON, the Beacon may be turned off via software command (See IRMCBO)			
Recommended Action: Call the MR IM (Andre Ribes) and the Payload Engineer. Monitor the MR Electronics Box temperature.			
Impact of Loss of Tlm: Loss of engineering TLM status for the MR power on command.			
Alternate Telemetry: T-0226			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF	

EDF TELEMETRY

I-0010	MOC_A_PWR	PYLD
Data Type: STATUS # Bits: 1	Description: MOC_A_POWER Data Range:	Channel Type: DISCRETE MUX Address: 8101-6 Connector-Pin: J12-33
Indicates if main 28 volt power to side A is on/off.		
Loss of Function: Cannot operate sensor if side B is also lost. May have blown fuses.		
Recommended Action: Call the PI (Mike Malin) and the Payload Engineer. After obtaining authorization from the PI, switch to side B.		
Impact of Loss of Tlm: Unable to directly verify application of side A MOC power. Engineering temperature TLM may provide some information to indicate a power delta via changing temperatures.		
Alternate Telemetry: T-0227, T-0228, T-0229, T-0230, T-0231		
Related Measurements: Must examine the MOC source packet content to determine if the MOC is operating.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF
I-0011	MOC_B_PWR	PYLD
Data Type: STATUS # Bits: 1	Description: MOC_B_POWER Data Range:	Channel Type: DISCRETE MUX Address: 8101-2 Connector-Pin: J7-33
Indicates if main 28 volt power to side B is powered on/off.		
Loss of Function: Cannot operate sensor if side A is also lost. May have blown fuses.		
Recommended Action: Call the PI (Mike Malin) and the Payload Engineer. After obtaining authorization from the PI, switch to side A.		
Impact of Loss of Tlm: Unable to directly verify application of side B MOC power. Engineering temperature TLM may provide some information to indicate a power delta via changing temperatures.		
Alternate Telemetry: T-0227, T-0228, T-0229, T-0230, T-0231		
Related Measurements: Must examine the MOC source packet content to determine if the MOC is operating.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF

EDF TELEMETRY

I-0012	MOLA_ARM_ST		PYLD
Data Type: STATUS # Bits: 1	Description: MOLA_INSTR_ARM_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810C-7 Connector-Pin: J12-76	
First status of three commands for the application of main 28 volt power.			
Loss of Function: Cannot turn the MOLA on if the ARM command fails in the OFF position. Failure in the ON position will remove one of the three laser eye safety protections for turning on the MOLA.			
Recommended Action: Call the MOLA PI (Dave Smith) and System Engineer (Jay Smith), and the JPL Payload Engineer.			
Impact of Loss of Tlm: Unable to verify arming of 28 volt main power to the MOLA. Engineering MOLA temperature TLM will provide some information to indicate power on to the MOLA.			
Alternate Telemetry: T-0232, T-0233			
Related Measurements: Examine the MOLA source packets to verify instrument is on.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM	
I-0013	MOLA_ENA_ST		PYLD
Data Type: STATUS # Bits: 1	Description: MOLA_INSTR_ENABLE_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810C-2 Connector-Pin: J7-44	
Second status of three commands for the application of main 28 volt power.			
Loss of Function: Cannot turn the MOLA on if this function fails in the OFF state. Cannot provide three levels of command safety if this function fails in the ON state.			
Recommended Action: Call the MOLA PI (Dave Smith) and System Engineer (Jay Smith), and the JPL Payload Engineer.			
Impact of Loss of Tlm: Unable to verify enabling of the 28 volt main power. MOLA temperature data will provide information on changing temperatures as a result of this command.			
Alternate Telemetry: T-0232, T-0233			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	

EDF TELEMETRY

I-0014	MOLA_PWR	PYLD
Data Type: STATUS # Bits: 1	Description: MOLA_INSTR_PWR_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8101-5 Connector-Pin: J12-1
Third status of three commands for the application of main 28 volt power.		
Loss of Function: Cannot turn the MOLA On or Off depending on the failure.		
Recommended Action: Call the MOLA PI (Dave Smith) and System Engineer (Jay Smith), and the JPL Payload Engineer.		
Impact of Loss of Tlm: Unable to verify the application of 28 volt power to the MOLA. MOLA temperature TLM will provide indication of power on/off.		
Alternate Telemetry: T-0232, T-0233 Related Measurements: Examine the MOLA source packets to verify MOLA is on/off.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF
I-0015	TES_PWR	PYLD
Data Type: STATUS # Bits: 1	Description: TES_INSTR_PWR_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8101-1 Connector-Pin: J7-1
Supplies main 28 volt power TES power on.		
Loss of Function: TES will be inoperative if the function fails OFF.		
Recommended Action: Call the TES PI (Phil Christensen) and the Payload Engineer.		
Impact of Loss of Tlm: Loss of engineering TLM for TES power on status.		
Alternate Telemetry: T-0234, T-0235 Related Measurements: Examine TES source packets if the TES is on.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF

EDF TELEMETRY

L-0001	CDU1_OSC_MON		TLCM
Data Type: DIGITAL # Bits: 8	Description: CDU1_OSC_MONITOR Data Range:	Channel Type: SERIAL MUX Address: 8018 Connector-Pin: J6-9	
Frequency drift of 64kHz square wave clock for CDU 1. Parent channel of L-0011 (CDU1OSC_OFL) and L-0100 (CDU1OSC_DRF).			
Note - This channel is currently not mapped into any decom map, see child channels L-0011 and L-0100.			
<p>Loss of Function: Ability to command spacecraft through CDU1 and MOT1 is lost if clock fails or if the frequency drifts beyond the limits of DSN compatibility. Normally, this command path is from the +X LGR.</p> <p>Recommended Action: If command reception is lost, change RF Input switch to position B to use CDU2 and MOT2. If possible, this hardware change should be avoided by having the DSN track the offset.</p> <p>Impact of Loss of Tlm: Inability to measure clock drift and to preset the uplink subcarrier offset to match the CDU for CDU1. No a problem if drift is minimal or can be determined by the DSN through diagnostic tests.</p> <p>Alternate Telemetry: L-0011 (CDU1_OSC_OFL), L-0100 (CDU1_OSC_DRF)</p>			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFF Event Status Mask: 0xFF CCL Process: OFF CCL Param: 0		
L-0002	CDU1_STA_DAT		TLCM
Data Type: DIGITAL # Bits: 8	Description: CDU1_SERIAL_DATA Data Range:	Channel Type: SERIAL MUX Address: 8010 Connector-Pin: J6-29	
1:(LSB) data rate LSB. 2:data rate bit 2; 3:data rate MSB; 4:SEU reset indicator; 5:CDU lock status; 6;7;8:spares. Parent channel of L-0010 (CDU1_SPARES), L-0012 (CDU1_BITRATE), L-0013 (CDU1_LOCK) and L-0014 (CDU1_SEU).			
Note - This channel is currently not mapped into any decom map, see child channels L-0010, L-0012, L-0013 and L-0014.			
<p>Loss of Function: Ability to command spacecraft may be affected.</p> <p>Recommended Action: Consider using CDU2 and MOT2. See L-0012, L-0013 and L-0014</p> <p>Impact of Loss of Tlm: Cannot verify CDU status.</p> <p>Alternate Telemetry: L-0010 (CDU1_SPARES), L-0012 (CDU1_BITRATE), L-0013 (CDU1_LOCK) and L-0014 (CDU1_SEU)</p>			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFF Event Status Mask: 0xFF CCL Process: OFF CCL Param: 0		

EDF TELEMETRY

L-0003	CDU2_OSC_MON		TLCM
Data Type: DIGITAL # Bits: 8	Description: CDU2_OSC_MONITOR Data Range:	Channel Type: SERIAL MUX Address: 8028 Connector-Pin: J13-9	
Frequency drift of 64 kHz squarewave clock for CDU2. Parent channel of L-0021 (CDU2OSC_OFL) and L-0102 (CDU2OSC_DRF).			
Note - This channel is currently not mapped into any decom map, see child channels L-0021 and L-0102.			
<p>Loss of Function: Ability to command spacecraft through CDU2 and MOT2 is lost if clock fails or if the frequency drifts beyond the limits of DSN compatibility. Normally, this command path is from the HGA.</p> <p>Recommended Action: If command reception is lost, change RF Input switch to position B to use CDU1 and MOT1. If possible, this hardware change should be avoided by having the DSN track the offset.</p> <p>Impact of Loss of Tlm: Inability to measure clock drift and to preset the uplink subcarrier offset to match the CDU. Not a problem if drift is minimal or can be determined by the DSN through diagnostic tests.</p> <p>Alternate Telemetry: L-0021 (CDU2_OSC_OFL), L-0102 (CDU2_OSC_DRF)</p>			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0XFF Event Status Mask: 0XFF CCL Process: OFF CCL Param: 0		
L-0004	CDU2_STA_DAT		TLCM
Data Type: DIGITAL # Bits: 8	Description: CDU2_SERIAL_DATA Data Range:	Channel Type: SERIAL MUX Address: 8020 Connector-Pin: J13-29	
1:(LSB) data rate LSB. 2:data rate bit 2; 3:data rate MSB; 4:SEU reset indicator; 5:CDU lock status; 6;7;8:spares. Parent channel of L-0020 (CDU2_SPARES), L-0022 (CDU2_BITRATE), L-0023 (CDU2_LOCK) and L-0024 (CDU2_SEU).			
Note - This channel is currently not mapped into any decom map, see child channels L-0020, L-0022, L-0023 and L-0024.			
<p>Loss of Function: Ability to command spacecraft may be affected.</p> <p>Recommended Action: Consider using CDU1 and MOT1. See L-0022, L-0023 and L-0024</p> <p>Impact of Loss of Tlm: Cannot verify CDU status.</p> <p>Alternate Telemetry: L-0020 (CDU2_SPARES), L-0022 (CDU2_BITRATE), L-0023 (CDU2_LOCK) and L-0024 (CDU2_SEU)</p>			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0XFF Event Status Mask: 0XFF CCL Process: OFF CCL Param: 0		

EDF TELEMETRY

L-0010	CDU1_SPARES		TLCM			
Data Type: STATUS # Bits: 3	Description: CDU1_DATA_SPARES Data Range:	Channel Type: SERIAL MUX Address: 8010-1 Connector-Pin: J6-29				
CDU1 3 bit spare fields.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = 0000 1 = 0001 2 = 0002 3 = 0003 4 = 0004 5 = 0005 6 = 0006 7 = 0007 </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0000 1 = 0001 2 = 0002 3 = 0003 4 = 0004 5 = 0005 6 = 0006 7 = 0007
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0000 1 = 0001 2 = 0002 3 = 0003 4 = 0004 5 = 0005 6 = 0006 7 = 0007				
L-0011	CDU1_OSC_OFLL		TLCM			
Data Type: STATUS # Bits: 1	Description: CDU1_OSC_MON_OVER_FLOW Data Range:	Channel Type: SERIAL MUX Address: 8018-1 Connector-Pin: J6-9				
Indicates whether frequency drift of CDU1 oscillator has exceeded -64 PPM or +63 PPM.						
Loss of Function: Ability to command spacecraft through CDU1 and MOT1 is lost if clock fails or if the frequency drifts beyond the limits of DSN compatibility. Normally, this command path is from the +Y LGR.						
Recommended Action: If command reception is lost, change RF input switch to Position B to use CDU2 and MOT2. If possible, this hardware change should be avoided by having the DSN track the offset.						
Impact of Loss of Tlm: Inability to measure clock drift and to present the uplink subcarrier offset to match the CDU or CDU1. Not a problem if drift is minimal or can be determined by the DSN through diagnostic tests.						
Alternate Telemetry: None. Related Measurements: Response to ground commands as a function of subcarrier frequency.						
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_CARRY 1 = OVERFLOW				

EDF TELEMETRY

L-0012	CDU1_BITRATE		TLCM
Data Type: STATUS # Bits: 3	Description: CDU1_DATA_BIT_RATE Data Range:	Channel Type: SERIAL MUX Address: 8010-6 Connector-Pin: J6-29	
This is the bit rate setting for CDU1. If side 1 is the desired side, this is the uplink command bit rate. If side 2 is the desired side, this setting will be at a bit lower than the uplink bit rate. The purpose of this lower setting is to slow down the CDU acquisition and lock process relative to that of the desired side.			
Loss of Function: If the desired rate cannot be attained, commanding efficiency might be reduced.			
Recommended Action: Consider possibility of using a rate that can be set, if that option exists. Otherwise, use the RF input switch to select MOT2/CDU2 for all commanding. Direct Redman software to "USE MOT2".			
Impact of Loss of Tlm: Inconvenient, but not necessary as long as the last commanded state is recorded. Acceptance of an uplink rate confirms selection of that rate.			
Alternate Telemetry: None. Related Measurements: Accepted uplink rate.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 7.8125 1 = 15.625 2 = 31.25 3 = 62.5 4 = 125.0 5 = 250.0 6 = 500.0 7 = 7.8125	
L-0013	CDU1_LOCK		TLCM
Data Type: STATUS # Bits: 1	Description: CDU1_DATA_LOCK_STATUS Data Range:	Channel Type: SERIAL MUX Address: 8010-5 Connector-Pin: J6-29	
Indicates if CDU1 has commanded subcarrier lock.			
Loss of Function: Ability to command spacecraft may be affected. If the function fails with no signal, the CIU will never accept command data from CDU1. If the function fails with signal on, CIU may attempt to decode noise as command.			
Recommended Action:			
Impact of Loss of Tlm: Inconvenience, but not necessary for operations.			
Alternate Telemetry: None. Related Measurements: Some inferences can be made from command acceptance characteristic.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LOCK 1 = IN_LOCK	

EDF TELEMETRY

L-0014	CDU1_SEU		TLCM
Data Type: STATUS # Bits: 1	Description: CDU1_SINGLE_EVENT_UPSET Data Range:	Channel Type: SERIAL MUX Address: 8010-4 Connector-Pin: J6-29	
Indicator of single event upset occurrences.			
Loss of Function: Ability to command spacecraft may be affected.			
Recommended Action: Consider using CDU2 and MOT2.			
Impact of Loss of Tlm: Cannot verify CDU single event upset status.			
Alternate Telemetry: None. Related Measurements: L-0024 (CDU2_SEU)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	
L-0020	CDU2_SPARES		TLCM
Data Type: STATUS # Bits: 3	Description: CDU2_DATA_SPARES Data Range:	Channel Type: SERIAL MUX Address: 8020-1 Connector-Pin: J13-29	
CDU2 3 bit spare fields.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0000 1 = 0001 2 = 0002 3 = 0003 4 = 0004 5 = 0005 6 = 0006 7 = 0007	

EDF TELEMETRY

L-0021	CDU2_OSC_OFL		TLCM
Data Type: STATUS # Bits: 1	Description: CDU2_OSC_MON_OVER_FLOW Data Range:	Channel Type: SERIAL MUX Address: 8028-1 Connector-Pin: J13-9	
Indicates whether frequency drift of CDU2 oscillator has exceeded -64 PPM or +63 PPM.			
<p>Loss of Function: Ability to command spacecraft through CDU2 and MOT2 is lost if clock fails or if the frequency drifts beyond the limits of DSN compatibility. Normally, this command path is from the HGA.</p> <p>Recommended Action: If command reception is lost, change RF input switch to Position B to use CDU1 and MOT1. If possible, this hardware change should be avoided by having the DSN track the offset.</p> <p>Impact of Loss of Tlm: Inability to measure clock drift and to preset the uplink subcarrier offset to match the CDU for CDU2. Not a problem if drift is minimal or can be determined by the DSN through diagnostic tests.</p> <p>Alternate Telemetry: None.</p> <p>Related Measurements: Response to ground commands as a function of subcarrier frequency.</p>			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_CARRY 1 = OVERFLOW	
L-0022	CDU2_BITRATE		TLCM
Data Type: STATUS # Bits: 3	Description: CDU2_DATA_BIT_RATE Data Range:	Channel Type: SERIAL MUX Address: 8020-6 Connector-Pin: J13-29	
This is the bit rate setting for CDU2. If side 2 is the desired side, this is the uplink command bit rate. If side 1 is the desired side, this setting will be at a bit lower than the uplink bit rate. The purpose of this lower setting is to slow down the CDU acquisition and lock process relative to that of the desired side.			
<p>Loss of Function: If the CDU bit rate cannot be set, the Side 1 command function is lost. If only the desired rate cannot be attained, commanding efficiency might be reduced.</p> <p>Recommended Action: Consider possibility of using a rate that can be set, if that option exists. Otherwise, use the RF input switch to select MOT1/CDU1 for all commanding. Direct Redman software to "USE MOT1".</p> <p>Impact of Loss of Tlm: Inconvenient, but not necessary as long as the last commanded state is recorded. Acceptance of an uplink rate confirms selection of that rate.</p> <p>Alternate Telemetry: None.</p> <p>Related Measurements: Accepted uplink rate.</p>			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 7.8125 1 = 15.625 2 = 31.25 3 = 62.5 4 = 125.0 5 = 250.0 6 = 500.0 7 = 7.8125	

EDF TELEMETRY

L-0023	CDU2_LOCK		TLCM
Data Type: STATUS # Bits: 1	Description: CDU2_DATA_LOCK_STATUS Data Range:	Channel Type: SERIAL MUX Address: 8020-5 Connector-Pin: J13-29	
Indicates if CDU2 has commanded subcarrier lock.			
Loss of Function: Ability to command spacecraft may be affected. If the function fails with no signal, the CIU will never accept command data from CDU1. If the function fails with signal on, CIU may attempt to decode noise as command.			
Recommended Action:			
Impact of Loss of Tlm: Inconvenience, but not necessary for operations.			
Alternate Telemetry: None. Related Measurements: Some inferences can be made from command acceptance characteristics.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LOCK 1 = IN_LOCK	
L-0024	CDU2_SEU		TLCM
Data Type: STATUS # Bits: 1	Description: CDU2_SINGLE_EVENT_UPSET Data Range:	Channel Type: SERIAL MUX Address: 8020-4 Connector-Pin: J13-29	
Indicator of single event upset occurrences.			
Loss of Function: Ability to command spacecraft may be affected.			
Recommended Action: Consider using CDU1 and MOT1.			
Impact of Loss of Tlm: Cannot verify CDU single event upset status.			
Alternate Telemetry: None. Related Measurements: L-0014 (CDU1_SEU)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	

EDF TELEMETRY

L-0031	MOT1_DOR_ON		TLCM
Data Type: STATUS # Bits: 1	Description: MOT1_DOR_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8104-8 Connector-Pin: J12-100	
Indicates whether MOT 1 is enabled to generate two differential one-way ranging tones for differential one-way ranging.			
Loss of Function: Inability to generate DOR tones may result in degraded navigation solution. If stuck in the "on" state, the tones will always be present and will rob a relatively insignificant amount of downlink power.			
Recommended Action: Consider using side 2 if this tracking mode is in the undesired state. Probably no action required if stuck in the "on" state.			
Impact of Loss of Tlm: None. DSN can recognize presence or absence of tones.			
Alternate Telemetry: None. Related Measurements: DSN observations of tones.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON	
L-0032	MOT1_EXCITER		TLCM
Data Type: STATUS # Bits: 1	Description: MOT1_EXCITER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8103-2 Connector-Pin: J7-35	
Indicates whether MOT1 was commanded to provide an RF drive signal to the TWTA. The MOT exciter must be ON for any of the MOT telemetry to be valid.			
Loss of Function: Inability to provide downlink communications via MOT 1.			
Recommended Action: If MOT 1 exciter fails, switch to MOT2.			
Impact of Loss of Tlm: None. Can verify if MO1 is on by using L-0110 (MOT1_EX_RF) or by observing downlink at DSN.			
Alternate Telemetry: Related Measurements: L-0110 (MOT1_EX_RF)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF	

EDF TELEMETRY

L-0033	MOT1_TWNC	TLCM
Data Type: STATUS # Bits: 1	Description: MOT1_NOCOHERNT_ENA_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8106-3 Connector-Pin: J7-70
Used to show coherent or non-coherent operation of MOT1. "Enable" forces noncoherent operation, even if there is an uplink present. "Disable" allows coherent operation if uplink lock is established.		
Loss of Function: If stuck in the "ON" (Noncoherent) position, cannot get two-way doppler. If stuck in the "OFF" (Coherent) position, downlink will switch between VCO and AUX OSC (or USO, if enabled) as uplink carrier is applied and removed, respectively.		
Recommended Action:		
Impact of Loss of Tlm: None, the DSN can determine whether the downlink carrier frequency is coherent or non-coherent.		
Alternate Telemetry: None. Related Measurements: DSN observations.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = INHIBIT 1 = ENABLE
L-0034	MOT1_RANGING	TLCM
Data Type: STATUS # Bits: 1	Description: MOT1_RANGING_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8106-6 Connector-Pin: J12-38
Indicates if MOT 1 two-way turnaround ranging channel is activated.		
Loss of Function: Two-way ranging not available for navigation from MOT1 if stuck in "OFF" state. If stuck in "ON" state, the ranging modulation will suppress the downlink signal by approximately -0.2 dB. This modulation will degrade Radio Science experiments.		
Recommended Action: If in "OFF" state and ranging is required for navigation, change RF input switch to position B, switch to MOT2 exciter and use MOT2 ranging channel. If in "ON" state, no change is required unless the open channel causes a problem.		
Impact of Loss of Tlm: None. DSN can verify state of ranging channel by observing downlink.		
Alternate Telemetry: None. Related Measurements: Downlink spectra at DSN.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON

EDF TELEMETRY

L-0035	MOT1_RCVRLCK	TLCM
Data Type: STATUS # Bits: 1	Description: MOT1_RECEIVER_LOCK_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8100-1 Connector-Pin: J7-128
Indicates if MOT1 receiver is locked to the uplink carrier from DSN.		
Loss of Function: Loss of use of MOT receiver 1 if uplink lock cannot be achieved.		
Recommended Action: If MOT1 receiver fails, change RF input switch position to access receiver 2.		
Impact of Loss of Tlm: None. L-0114 (MOT1_RCV_AGC) will indicate if receiver 1 is in lock.		
Alternate Telemetry: Related Measurements: L-0111 (MOT1_RCV_AGC)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = IN_LOCK 1 = NO_LOCK
L-0036	MOT1_TLM_MOD	TLCM
Data Type: STATUS # Bits: 1	Description: MOT1_TLM_MODULATION Data Range:	Channel Type: DISCRETE MUX Address: 811F-1 Connector-Pin: J7-31
Indicates the MOT1 exciter switch position at the XSU telemetry signal input port. If "ON" the telemetry data/subcarrier modulates the MOT1 exciter. If "OFF", the modulation is inhibited to provide a clear carrier for the radio science experiment. In the "OFF" position, some low-level modulation products remain. These can be made negligible by sending cross-strap command to the XSU.		
Loss of Function: Cannot transmit telemetry if stuck in the "off" state. Cannot transmit carrier only if stuck in the "ON" state.		
Recommended Action:		
Impact of Loss of Tlm: None. Telemetry presence can be detected at the DSN.		
Alternate Telemetry: Cross-strap switch position, if the switch is being used to inhibit modulation. Related Measurements: DSN observation of spectra or telemetry data output.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON

EDF TELEMETRY

L-0037	MOT1_USO_ENA	TLCM
Data Type: STATUS # Bits: 1	Description: MOT1_USO_ENABLE_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8106-1 Connector-Pin: J7-6
<p>"Enable" causes MOT1 to accept USO output signal instead of AUX OSC when in noncoherent mode. "Inhibit" causes MOT1 to accept AUX OSC output signal instead of USO when in noncoherent mode. The "Enable" mode is expected to be the preferred mode through most of the mission for the operating MOT (the Default selection for the other MOT must always be the AUX OSC). Also, the USO output signal is used when in coherent mode if there is no uplink.</p>		
Loss of Function:		
Recommended Action: None.		
Impact of Loss of Tlm: None. The DSN can detect the difference in frequency and phase stability between the USO and AUX OSC.		
Alternate Telemetry: None. Related Measurements: DSN observation of downlink band.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = INHIBIT 1 = ENABLE
L-0041	MOT2_DOR_ON	TLCM
Data Type: STATUS # Bits: 1	Description: MOT2_DOR_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8104-3 Connector-Pin: J7-68
<p>Indicates whether MOT2 is enabled to generate two differential one-way ranging tones for differential one-way ranging.</p>		
Loss of Function: Inability to generate DOR tones may result in degraded navigation solutions. If stuck in the "ON" state, the tones will always be present and will rob a relatively insignificant amount of downlink power.		
Recommended Action: Consider using side 1 if this tracking mode is in the undesired state. Probably no action required if stuck in the "ON" state.		
Impact of Loss of Tlm: None. DSN can recognize presence or absence of tones.		
Alternate Telemetry: None. Related Measurements: DSN observation of tones.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON

EDF TELEMETRY

L-0042	MOT2_EXCITER	TLCM
Data Type: STATUS # Bits: 1	Description: MOT2_EXCITER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8102-6 Connector-Pin: J12-34
Indicates whether MOT2 was commanded to provide an RF drive signal to the TWTA. The MOT exciter must be ON for any of the MOT telemetry to be valid.		
Loss of Function: Inability to provide downlink communication via MOT 2.		
Recommended Action: If MOT2 exciter fails, switch to MOT 1.		
Impact of Loss of Tlm: None. Can verify if MOT2 is on by using L-0120 (MOT2_EX_RF) or by observing downlink at DSN.		
Alternate Telemetry: Related Measurements: L-0120 (MOT2_EX_RF)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF
L-0043	MOT2_TWNC	TLCM
Data Type: STATUS # Bits: 1	Description: MOT2_NOCOHERNT_ENA_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8106-7 Connector-Pin: J12-70
Used to show coherent or non-coherent operation of MOT 2. "Enable" forces noncoherent operation, even if there is an uplink present. "Disable" allows coherent operation if uplink lock is established.		
Loss of Function: If stuck in the "ON" (Noncoherent) position, cannot get two-way doppler. If stuck in the "OFF" (Coherent) position, downlink will switch between VCO and AUX OSC (or USO, if enabled) as uplink carrier is applied and removed, respectively.		
Recommended Action:		
Impact of Loss of Tlm: None, the DSN can determine whether the downlink carrier frequency is coherent or non-coherent.		
Alternate Telemetry: None. Related Measurements: DSN observations.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = INHIBIT 1 = ENABLE

EDF TELEMETRY

L-0044	MOT2_RANGING		TLCM
Data Type: STATUS # Bits: 1	Description: MOT2_RANGING_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8106-2 Connector-Pin: J7-38	
Indicates if MOT2 two-way turnaround ranging channel is activated.			
Loss of Function: Two-way ranging not available for navigation from MOT 2 if stuck in "OFF" state. If stuck in "ON" state, the ranging modulation will suppress the downlink signal by approximately -0.2 dB. This modulation will degrade Radio Science experiments.			
Recommended Action: If in "OFF" state and ranging is required for navigation, change RF input switch to position A, switch to MOT2 exciter and use MOT1 ranging channel. If in "ON" state, no change is required unless the open channel causes a problem.			
Impact of Loss of Tlm: None. DSN can verify state of ranging channel by observing downlink.			
Alternate Telemetry: None. Related Measurements: Downlink spectra at DSN.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON	
L-0045	MOT2_RCVRLCK		TLCM
Data Type: STATUS # Bits: 1	Description: MOT2_RECEIVER_LOCK_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8100-5 Connector-Pin: J12-128	
Indicates if MOT2 receiver is locked to the uplink carrier from DSN.			
Loss of Function: Loss of use of MOT receiver 2 if uplink lock cannot be achieved.			
Recommended Action: If MOT2 receiver fails, change RF input switch position to access receiver 1.			
Impact of Loss of Tlm: None. L-0121 (MOT2_RCVR_AGC) will indicate if receiver 2 is in lock.			
Alternate Telemetry: L-0121 (MOT2_RCV_AGC) Related Measurements: L-0121 (MOT2_RCV_AGC)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = IN_LOCK 1 = NO_LOCK	

EDF TELEMETRY

L-0046	MOT2_TLM_MOD	TLCM
Data Type: STATUS # Bits: 1	Description: MOT2_TLM_MODULATION Data Range:	Channel Type: DISCRETE MUX Address: 811F-2 Connector-Pin: J7-63
Indicates the MOT 2 exciter switch position at the XSU telemetry signal input port. If "ON" the telemetry data/subcarrier modulates the MOT 2 exciter. If "OFF", the modulation is inhibited to provide a clear carrier for the radio science experiment. In the "OFF" position, some low-level modulation products remain. These can be made negligible by sending cross-strap command to the XSU.		
Loss of Function: Cannot transmit telemetry if stuck in the "OFF" state. Cannot transmit carrier only if stuck in the "ON" state.		
Recommended Action:		
Impact of Loss of Tlm: None. Telemetry presence can be detected at the DSN.		
Alternate Telemetry: Cross-strap switch position, if the switch is being used to inhibit modulation.		
Related Measurements: DSN observation of spectra or telemetry data output.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON
L-0047	MOT2_USO_ENA	TLCM
Data Type: STATUS # Bits: 1	Description: MOT2_USO_ENABLE_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8106-5 Connector-Pin: J12-6
"Enable" causes MOT 2 to accept USO output signal instead of AUX OSC when in noncoherent mode. "Inhibit" causes MOT 2 to accept AUX OSC output signal instead of USO when in noncoherent mode. The "Enable" mode is expected to be the preferred mode through most of the mission for the operating MOT (the Default selection for the other MOT must always be the AUX OSC). Also, the USO output signal is used when in coherent mode if there is no uplink.		
Loss of Function:		
Recommended Action: None.		
Impact of Loss of Tlm: None. The DSN can detect the difference in frequency and phase stability between the USO and AUX OSC.		
Alternate Telemetry: None.		
Related Measurements: DSN observation of downlink band.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = INHIBIT 1 = ENABLE

EDF TELEMETRY

L-0050	RF_SW_INPUT		TLCM
Data Type: STATUS # Bits: 1	Description: RF_SWITCH_INPUT_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 811F-7 Connector-Pin: J12-95	
Determination of RF switch input state position A or B. Position A indicates LGR1 to MOT1, HGA and LGR2 to MOT2. Position B indicates LGR1 to MOT2, HGA and LGR2 to MOT1.			
Loss of Function:			
Recommended Action: Continue attempts to free switch. State contingency planning. Note that a switch failure will not be recognized unless a receiver/CDU problem has created a need to attempt to use it.			
Impact of Loss of Tlm: None. Use receiver AGC to identify path.			
Alternate Telemetry: None Related Measurements: L-0111 (MOT1_RCV_AGC), L-0121 (MOT2_RCV_AGC)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = POSITN_B 1 = POSITN_A	
L-0051	RF_SW_OUTPUT		TLCM
Data Type: STATUS # Bits: 1	Description: RF_SWITCH_OUTPUT_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 811F-8 Connector-Pin: J12-127	
Determination of RF switch output state position A or B. Position A indicates TWTA1 to one of the two transmit LGAs, TWTA2 to HGA. Position B indicates TWTA1 to HGA, TWTA2 to one of the two transmit LGAs. (LGA determination is made by RF LGT switch)			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm: None. Infer switch position from operating TWTA (from TWTA TLM) and from operating antenna (from signal strength at ground station).			
Alternate Telemetry: None Related Measurements: TWTA TLM and received signal strength at ground.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = POSITN_B 1 = POSITN_A	

EDF TELEMETRY

L-0052	RF_SW_LGT		TLCM
Data Type: STATUS # Bits: 1	Description: RF_SWITCH_LGT_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 811F-3 Connector-Pin: J7-95	
Determination of RF switch Low Gain Transmit (LGT) state position A or B. Position A indicates LGT1 selected. Position B indicates LGT2 selected.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = POSITN_B 1 = POSITN_A	
L-0053	RF_SW_OSC		TLCM
Data Type: STATUS # Bits: 3	Description: RF_SWITCH_OSC_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 811F-6 Connector-Pin: J7-127	
Determination of RF switch oscillator state position A, B or C. This switch selects the oscillator which feeds the X- to Ka-Band upconverter. Position A indicates the VCO1 (MOT1) selected. Position B indicates the VCO2 (MOT2) selected. Position C indicates the USO selected.			
Note - This channel is made up of 3 DISCRETE bits located on Connector J7 Pins 95 and 127 and also Connector J12 Pin 31.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = invalid 1 = POSITN_C 2 = POSITN_B 3 = invalid 4 = POSITN_A 5 = invalid 6 = invalid 7 = invalid	

EDF TELEMETRY

L-0058	RF_SW_23_INH		TLCM			
Data Type: STATUS # Bits: 1	Description: RF_SWITCH_2_3_INHIBIT_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 811D-1 Connector-Pin: J7-29				
RF Switches 2 and 3 inhibit. Indicates whether RF switches 2 and 3 (RF LGT switch and RF output switch) can be switched.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLED 1 = INHIBIT </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLED 1 = INHIBIT
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLED 1 = INHIBIT				
L-0060	TWTA1_FILMNT		TLCM			
Data Type: STATUS # Bits: 1	Description: TWTA1_FILAMENT_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8102-4 Connector-Pin: J7-98				
Indicates power applied to the TWTA1 filament.						
Loss of Function: Loss of communications capability from spacecraft via TWTA1.						
Recommended Action: Reverse RF output switch position and select the TWTA2. If sticking relay is suspected, send all three TWTA1 hardware command disables (TCT1FX, TCT1NX, TCT1HX) and re-try original command.						
Impact of Loss of Tlm: None. Filament state can be inferred from presence of TWTA1 downlink.						
Alternate Telemetry: None Related Measurements: L-0131 (TWTA1_HLX_I), L-0132 (TWTA1_ANOD_V)						
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A	State Names: 0 = OFF 1 = ON				
CCL Process: ON CCL Param: 0						

EDF TELEMETRY

L-0061	TWTA1_HV		TLCM
Data Type: STATUS # Bits: 1	Description: TWTA1_HIGH_VOLTAGE_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8103-7 Connector-Pin: J12-67	
TWTA 1 High Voltage status.			
Loss of Function: Loss of communications capability from spacecraft via TWTA1.			
Recommended Action: Send all three TWTA1 hardware command disables (TCT1FX, TCT1NX, TCT1HX) and re-try original command.			
Impact of Loss of Tlm: None. Use alternate TLM Data to identify TWTA1 mode.			
Alternate Telemetry: None Related Measurements: L-0131 (TWTA1_HLX_I), L-0132 (TWTA1_ANOD_V)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF	
L-0070	TWTA2_FILMNT		TLCM
Data Type: STATUS # Bits: 1	Description: TWTA2_FILAMENT_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8103-3 Connector-Pin: J7-67	
Indicates power applied to the TWTA2 filament.			
Loss of Function: Loss of communications capability from spacecraft via TWTA2.			
Recommended Action: Reverse RF output switch position and select the other TWTA. If sticking relay is suspected, send all three TWTA2 hardware command disables (TCT2FX, TCT2NX, TCT2HX) and re-try original command.			
Impact of Loss of Tlm: None. Filament state can be inferred from presence of TWTA2 downlink.			
Alternate Telemetry: None Related Measurements: L-0132 (TWTA2_HLX_I), L-0142 (TWTA2_ANOD_V)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = OFF 1 = ON	

EDF TELEMETRY

L-0071	TWTA2_HV		TLCM
Data Type: STATUS # Bits: 1	Description: TWTA2_HIGH_VOLTAGE_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8102-2 Connector-Pin: J7-34	
TWTA 2 High Voltage status.			
Loss of Function: Loss of communications capability from spacecraft via TWTA2.			
Recommended Action: Send all three TWTA2 hardware command disables (TCT2FX, TCT2NX, TCT2HX) and re-try original command.			
Impact of Loss of Tlm: None. Use alternate TLM data to identify TWTA2 mode.			
Alternate Telemetry: None Related Measurements: L-0132 (TWTA2_HLX_I), L-0142 (TWTA2_ANOD_V)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF	
L-0080	USO_PWR		TLCM
Data Type: STATUS # Bits: 1	Description: USO_POWER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8106-4 Connector-Pin: J7-102	
Indicates whether main 28 volt power is being supplied to support USO operation.			
Loss of Function: Loss of USO if power is unavailable.			
Recommended Action: Call the USO PI, the Payload Engineer, the Radio Science Experiment Representative, and the Telecom Engineer. Inhibit the USO input to MOT1 and MOT2 only when the oven voltage, regulator voltage, and status indicates that the USO is unpowered.			
Impact of Loss of Tlm: Loss of engineering TLM about status of USO power state.			
Alternate Telemetry: Look for USO signal in x-band downlink when the MOT is in a non-coherent or one-way mode. Related Measurements: L-0201 (USO_OVEN_V), L-0200 (USO_REG_V), T-0315 (USO_T)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF	

EDF TELEMETRY

L-0090	KaBLE_STAT		TLCM
Data Type: STATUS # Bits: 1	Description: KaBLE_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8102-7 Connector-Pin: J12-66	
Indicates whether the first of 2 relays in series to allow 28V to the KaBLE power supply is open (off) or closed (on).			
Loss of Function: No power to KaBLE.			
Recommended Action: Recycle KABLE power; TCKABF, TCKABX, TCKABE, TCKABN.			
Impact of Loss of Tlm: Minor; TWTA enclosure thermal sensor telemetry can be used to determine KABLE status.			
Alternate Telemetry: T-0316 Related Measurements: T-0314, T-0312, L-0091			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = OFF 1 = ON	
L-0091	KaBLE_ENABLE		TLCM
Data Type: STATUS # Bits: 1	Description: KABLE_ENABLE_TLM Data Range:	Channel Type: DISCRETE MUX Address: 8103-6 Connector-Pin: J12-35	
Indicates whether the second of 2 relays in series to allow 28V to the KaBLE power supply is open (off) or closed (on).			
Loss of Function: No power to KaBLE.			
Recommended Action: Recycle KABLE power; TCKABF, TCKABX, TCKABE, TCKABN.			
Impact of Loss of Tlm: Minor; TWTA enclosure thermal sensor telemetry can be used to determine KABLE status.			
Alternate Telemetry: T-0316 Related Measurements: T-0314, T-0312, L-0090			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	

EDF TELEMETRY

L-0100	CDU1_OSC_DRIFT		TLCM
Data Type: UNSIGNED # Bits: 7	Description: CDU1_OSC_DRIFT Data Range: -64.000:63.000	Channel Type: SERIAL MUX Address: 8018-2 Connector-Pin: J6-9	
Indicates frequency drift of CDU1 oscillator over the range of -64 PPM to +63 PPM.			
Loss of Function: Ability to command spacecraft through CDU1 and MOT1 is lost if clock fails or if the frequency drifts beyond the limits of DSN compatibility. Normally, this command path is from the +Y LGR. Recommended Action: If command reception is lost, change RF input switch to position B to use CDU2 and MOT2. If possible, this hardware change should be avoided by having the DSN track the offset. Impact of Loss of Tlm: Inability to measure clock drift and to preset the uplink subcarrier offset to match the CDU for CDU2. Not a problem if drift is minimal or can be determined by the DSN through diagnostic tests. Alternate Telemetry: None Related Measurements: Response to ground commands as a function of subcarrier frequency.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: TABLE EU Units: PPM CCL Process: OFF CCL Param: 0	DN-EU Pairs: dn1 = 0 eu1 = 0.00000000e+00 dn2 = 63 eu2 = 6.30000000e+01 dn2 = 64 eu3 = -6.40000000e+01 dn4 = 127 eu4 = -1.00000000e+00	
L-0101	CDU1_SNR		TLCM
Data Type: UNSIGNED # Bits: 8	Description: CDU1_SIGNAL-NOISE_RATIO Data Range: 0:255	Channel Type: SERIAL MUX Address: 8014 Connector-Pin: J6-29	
Used for signal-to-noise ratio calculations to be performed on the ground.			
Loss of Function: Loss of SNR can cause loss of command capability if uplink threshold requirements are not met. Recommended Action: If the SNR degrades below link threshold value for the given link conditions, it might be possible to reestablish the link by raising EIRP or reducing bit rate. If this fails, switch to side 2 by changing RF input switch position. Impact of Loss of Tlm: Telemetry is diagnostic, not operational. Alternate Telemetry: L-0111 (MOT1_RCV_AGC) which indicates uplink carrier signal level, can also be used to infer commanded SNR. Related Measurements: L-0111 (MOT1_RCV_AGC) and command message error rate.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

EDF TELEMETRY

L-0102	CDU2_OSC_DRIFT		TLCM
Data Type: UNSIGNED # Bits: 7	Description: CDU2_OSC_DRIFT Data Range: -64.000:63.000	Channel Type: SERIAL MUX Address: 8028-2 Connector-Pin: J13-9	
Indicates frequency drift of CDU2 oscillator over the range of -64 PPM to +63 PPM.			
Loss of Function: Ability to command spacecraft through CDU2 and MOT2 is lost if clock fails or if the frequency drifts beyond the limits of DSN compatibility. Normally, this command path is from the HGA.			
Recommended Action: If command reception is lost, change RF input switch to Position B to use CDU-1 and MOT. IF possible, this hardware change should be avoided by having the DSN track the offset.			
Impact of Loss of Tlm: Inability to measure clock drift and to present the uplink subcarrier offset to match the CDU for CDU2. Not a problem if drift is minimal or can be determined by the DSN through diagnostic tests.			
Alternate Telemetry: None.			
Related Measurements: Response to ground commands as a function of subcarrier frequency.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: TABLE EU Units: PPM CCL Process: OFF CCL Param: 0	DN-EU Pairs: dn1 = 0 eu1 = 0.00000000e+00 dn2 = 63 eu2 = 6.30000000e+01 dn2 = 64 eu3 = -6.40000000e+01 dn4 = 127 eu4 = -1.00000000e+00	
L-0103	CDU2_SNR		TLCM
Data Type: UNSIGNED # Bits: 8	Description: CDU2_SIGNAL-NOISE_RATIO Data Range: 0:255	Channel Type: SERIAL MUX Address: 8024 Connector-Pin: J13-29	
Used for signal-to-noise ratio calculations to be performed on the ground.			
Loss of Function: Loss of SNR can cause loss of command capability if uplink threshold requirements are not met.			
Recommended Action: If the SNR degrades below link threshold value for the given link conditions, it might be possible to reestablish the link by raising EIRP or reducing bit rate. If this fails, switch to side 1 by changing RF input switch position.			
Impact of Loss of Tlm: None. Telemetry is diagnostic, not operational.			
Alternate Telemetry: L-0121 (MOT2_RCV_AGC) which indicates uplink carrier signal level, can also be used to infer commanded SNR.			
Related Measurements: L-0121 (MOT2_RCV_AGC) and command message error rate.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

EDF TELEMETRY

L-0110	MOT1_EX_RF		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: MOT1_EXCITER_RF_OUTPUT Data Range: 0.000:15.195	Channel Type: HL ANALOG MUX Address: 8312 Connector-Pin: J10-18				
Indicates RF drive power from MOT1 into the hybrid which feeds both TWTA's.						
Loss of Function: Loss of MOT1.						
Recommended Action: Switch to MOT2.						
Impact of Loss of Tlm: Cannot monitor exciter performance.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -6.78749E-05 n1 = 7.68004E-02 n2 = 1.31067E-04 n3 = -7.78682E-07 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0	Coefficients: n0 = -6.78749E-05 n1 = 7.68004E-02 n2 = 1.31067E-04 n3 = -7.78682E-07
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0	Coefficients: n0 = -6.78749E-05 n1 = 7.68004E-02 n2 = 1.31067E-04 n3 = -7.78682E-07				
L-0111	MOT1_RCV_AGC		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: MOT1_RECEIVER_AGC Data Range: -152.820:-51.470	Channel Type: HL ANALOG MUX Address: 8285 Connector-Pin: J9-5				
Indicates received signal strength of uplink carrier component received by MOT1 receiver.						
Loss of Function: Loss of MOT1 receiver.						
Recommended Action: Switch to MOT2.						
Impact of Loss of Tlm: Cannot monitor uplink performance.						
Alternate Telemetry: Related Measurements: L-0113 (MOT1_RCV_SPE) will indicate receiver lock. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -5.14703E+01 n1 = -4.75014E-01 n2 = 1.51624E-04 n3 = 1.34097E-07 n4 = 1.25679E-09 n5 = 2.20897E-12 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0	Coefficients: n0 = -5.14703E+01 n1 = -4.75014E-01 n2 = 1.51624E-04 n3 = 1.34097E-07 n4 = 1.25679E-09 n5 = 2.20897E-12
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0	Coefficients: n0 = -5.14703E+01 n1 = -4.75014E-01 n2 = 1.51624E-04 n3 = 1.34097E-07 n4 = 1.25679E-09 n5 = 2.20897E-12				

EDF TELEMETRY

L-0112		MOT1_RCV_I	TLCM			
Data Type: UNSIGNED # Bits: 8	Description: MOT1_RECEIVER_CURRENT Data Range: 0.004:0.598	Channel Type: HL ANALOG MUX Address: 83AC Connector-Pin: J11-44				
Indicates MOT1 receiver bus current.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: AMPS CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 3.53967E-03 n1 = 2.20263E-03 n2 = 5.10990E-07 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 3.53967E-03 n1 = 2.20263E-03 n2 = 5.10990E-07
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 3.53967E-03 n1 = 2.20263E-03 n2 = 5.10990E-07				
L-0113		MOT1_RCV_SPE	TLCM			
Data Type: UNSIGNED # Bits: 8	Description: MOT1_RECEIVER_SPE Data Range: -288.888:332.972	Channel Type: HL ANALOG MUX Address: 834F Connector-Pin: J10-63				
Indicator of MOT1 receiver frequency offset relative to VCO nominal center frequency once uplink lock is achieved. VCO nominal center frequency is a function of VCO temperature and will vary relative to the assigned uplink center frequency.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: KHz CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -2.88888E+02 n1 = 2.43716E+00 n2 = 5.91006E-06 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: KHz CCL Process: OFF CCL Param: 0	Coefficients: n0 = -2.88888E+02 n1 = 2.43716E+00 n2 = 5.91006E-06
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: KHz CCL Process: OFF CCL Param: 0	Coefficients: n0 = -2.88888E+02 n1 = 2.43716E+00 n2 = 5.91006E-06				

EDF TELEMETRY

L-0114	MOT1_RNG_AGC		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: MOT1_RANGE_AGC Data Range: -180.373:95.159	Channel Type: HL ANALOG MUX Address: 830D Connector-Pin: J10-13				
Indicates received signal strength of uplink ranging component received by MOT1 receiver.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -1.80373E+02 n1 = 1.63951E+00 n2 = -1.60518E-02 n3 = 5.43517E-05 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.80373E+02 n1 = 1.63951E+00 n2 = -1.60518E-02 n3 = 5.43517E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.80373E+02 n1 = 1.63951E+00 n2 = -1.60518E-02 n3 = 5.43517E-05				
L-0120	MOT2_EX_RF		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: MOT2_EXCITER_RF_OUTPUT Data Range: 0.000:15.195	Channel Type: HL ANALOG MUX Address: 838D Connector-Pin: J11-13				
Indicates RF drive power from MOT2 into the hybrid which feeds both TWTA's.						
Loss of Function: Loss of MOT2.						
Recommended Action: Switch to MOT1.						
Impact of Loss of Tlm: Cannot monitor exciter performance.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -6.78749E-05 n1 = 7.68004E-02 n2 = 1.31067E-04 n3 = -7.78682E-07 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0	Coefficients: n0 = -6.78749E-05 n1 = 7.68004E-02 n2 = 1.31067E-04 n3 = -7.78682E-07
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0	Coefficients: n0 = -6.78749E-05 n1 = 7.68004E-02 n2 = 1.31067E-04 n3 = -7.78682E-07				

EDF TELEMETRY

L-0121		MOT2_RCV_AGC	TLCM
Data Type: UNSIGNED # Bits: 8	Description: MOT2_RECEIVER_AGC Data Range: -153.137:-59447	Channel Type: HL ANALOG MUX Address: 8305 Connector-Pin: J10-5	
Indicates received signal strength of uplink carrier component received by MOT2 receiver.			
Loss of Function: Loss of MOT2 receiver.			
Recommended Action: Switch to MOT1.			
Impact of Loss of Tlm: Cannot monitor uplink performance.			
Alternate Telemetry: Related Measurements: L-0123 (MOT2_RCV_SPE) will indicate receiver lock.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0	Coefficients: n0 = -5.94474E+01 n1 = -3.80946E-01 n2 = -1.25820E-03 n3 = 1.14495E-05 n4 = -4.43344E-08 n5 = 7.68640E-11	
L-0122		MOT2_RCV_I	TLCM
Data Type: UNSIGNED # Bits: 8	Description: MOT2_RECEIVER_CURRENT Data Range: 0.004:0.598	Channel Type: HL ANALOG MUX Address: 82CD Connector-Pin: J9-61	
Indicates MOT2 receiver bus current.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: AMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 3.53967E-03 n1 = 2.20263E-03 n2 = 5.10990E-07	

EDF TELEMETRY

L-0123	MOT2_RCV_SPE		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: MOT2_RECEIVER_SPE Data Range: -288.888:332.972	Channel Type: HL ANALOG MUX Address: 828D Connector-Pin: J9-13				
Indicator of MOT2 receiver frequency offset relative to VCO nominal center frequency once uplink lock is achieved. VCO nominal center frequency is a function of VCO temperature and will vary relative to the assigned uplink center frequency.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: KHz CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -2.88888E+02 n1 = 2.43716E+00 n2 = 5.91006E-06 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: KHz CCL Process: OFF CCL Param: 0	Coefficients: n0 = -2.88888E+02 n1 = 2.43716E+00 n2 = 5.91006E-06
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: KHz CCL Process: OFF CCL Param: 0	Coefficients: n0 = -2.88888E+02 n1 = 2.43716E+00 n2 = 5.91006E-06				
L-0124	MOT2_RNG_AGC		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: MOT2_RANGE_AGC Data Range: -180.373:95.159	Channel Type: HL ANALOG MUX Address: 83C9 Connector-Pin: J11-57				
Indicates received signal strength of uplink ranging component received by MOT2 receiver.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -1.80373E+02 n1 = 1.63951E+00 n2 = -1.60518E-02 n3 = 5.43517E-05 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.80373E+02 n1 = 1.63951E+00 n2 = -1.60518E-02 n3 = 5.43517E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: dBm CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.80373E+02 n1 = 1.63951E+00 n2 = -1.60518E-02 n3 = 5.43517E-05				

EDF TELEMETRY

L-0131	TWTA1_HLX_I		TLCM
Data Type: UNSIGNED # Bits: 8	Description: TWTA1_HELIX_CURRENT Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 83C3 Connector-Pin: J11-51	
Indicates TWTA1 helix current. May increase with time as beam becomes less focused. Helix overcurrent protection trip circuit will turn the TWTA off if helix current is exceeded. Redman uses this parameter as its health check point and will switch to TWTA2 autonomously if it goes outside preset limits.			
Loss of Function: Loss of communications capability via TWTA1.			
Recommended Action: Swap to TWTA2.			
Impact of Loss of Tlm: Send software command to disable TWTA Helix Current monitoring.			
Alternate Telemetry: L-0061			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: mAMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -3.83567E-02 n1 = 1.98403E-02	
L-0132	TWTA1_ANOD_V		TLCM
Data Type: UNSIGNED # Bits: 8	Description: TWTA1_ANODE_VOLTAGE Data Range: -1005:-495	Channel Type: HL ANALOG MUX Address: 82CE Connector-Pin: J9-62	
TWTA1 anode voltage.			
Loss of Function: Loss of communications capability via TWTA1.			
Recommended Action: Swap to TWTA2.			
Impact of Loss of Tlm: None			
Alternate Telemetry: L-0061			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.00500E+03 n1 = 2.00000E+00	

EDF TELEMETRY

L-0141	TWTA2_HLX_I		TLCM
Data Type: UNSIGNED # Bits: 8	Description: TWTA2_HELIX_CURRENT Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 82A9 Connector-Pin: J9-41	
Indicates TWTA2 helix current. May increase with time as beam becomes less focused. Helix overcurrent protection trip circuit will turn the TWTA off if helix current limit is exceeded. Redman uses this parameter as its health check point and will switch to TWTA1 autonomously if it goes outside preset limits.			
Loss of Function: Loss of communications capability via TWTA2.			
Recommended Action: Swap to TWTA1.			
Impact of Loss of Tlm: Send software command to disable TWTA Helix Current monitoring.			
Alternate Telemetry: L-0071			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: mAMPS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -5.30837E-02 n1 = 1.99567E-02	
L-0142	TWTA2_ANOD_V		TLCM
Data Type: UNSIGNED # Bits: 8	Description: TWTA2_ANODE_VOLTAGE Data Range: -988:-478	Channel Type: HL ANALOG MUX Address: 839D Connector-Pin: J11-29	
TWTA2 anode voltage.			
Loss of Function: Loss of communications capability via TWTA2.			
Recommended Action: Swap to TWTA1.			
Impact of Loss of Tlm: None			
Alternate Telemetry: L-0071			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = -9.88000E+02 n1 = 2.00000E+00	

EDF TELEMETRY

L-0200	USO_REG_V		TLCM
Data Type: UNSIGNED # Bits: 8	Description: USO_REGULATOR_VOLTAGE Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 82A5 Connector-Pin: J9-37	
Indicates proper operation of the voltage regulator within the USO			
Loss of Function: Degraded operation or loss of the USO, depending on the nature of the regulator failure.			
Recommended Action: Contact the Radio Science PI, the Payload Engineer, and the Telecom Engineer. Inhibit the USO input to the MOT1 and MOT2 only if failure is severe enough to make the USO worse (as a frequency source) than the transponder's auxillary oscillator.			
Impact of Loss of Tlm: Inability to determine proper operation of the USO voltage regulation.			
Alternate Telemetry:			
Related Measurements: L-0080 USO_PWR - Check stability of the X-band downlink when the MOT is in noncoherent or one way mode.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02	
L-0201	USO_OVEN_V		TLCM
Data Type: UNSIGNED # Bits: 8	Description: USO_OVEN_HEATER_VOLTAGE Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 8325 Connector-Pin: J10-37	
USO frequency stability depends on the control of the oven temperature.			
Loss of Function: Results in degraded USO frequency and phase stability.			
Recommended Action: Contact the Radio Science PI, the Payload Engineer, and the Telecom Engineer. Inhibit the USO input to the MOT1 and MOT2 only if failure is severe enough to make the USO worse (as a frequency source) than the transponder's auxillary oscillator.			
Impact of Loss of Tlm: Inability to determine proper operation of the USO oven.			
Alternate Telemetry:			
Related Measurements: L-0080 USO_PWR - Check for the stability of the X-band downlink when the MOT is in noncoherent or one-way mode.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02	

EDF TELEMETRY

P-0001	LT_V1_ENA		PROP			
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE1_ENAB_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810F-2 Connector-Pin: J7-47				
Latch valve 1 enable status						
Loss of Function: Must activate PV1 to open pressurization system if latch valve 1 fails in the closed position. On-off capability of pressure system via latch valve is lost.						
Recommended Action: Actuate LV1 On. Observe P1, P2, P3, P4 P5 and P6 for indication of pressurant flow; if no flow plan for usage of pyro valves 1-6.						
Impact of Loss of Tlm: Unable to determine if LV1 can be activated.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				
P-0002	LT_V1_P_POS		PROP			
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE1_PRI_POSITION Data Range:	Channel Type: DISCRETE MUX Address: 811B-8 Connector-Pin: J12-123				
Latch valve 1 primary position indicator.						
Loss of Function: Must activate PV1 to open pressurization system if latch valve 1 fails in the closed position. On-off capability of pressure system via latch valve is lost.						
Recommended Action: Observe LT_V1_S_POS for compliance with command. Observe P1 thru P6 for indication of pressurant flow. If no flow plan for usage of pyro valves 1-6.						
Impact of Loss of Tlm: Loss of independant knowledge of LV1 position.						
Alternate Telemetry: P-0003 (LT_V1_S_POS) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = CLOSED 1 = OPEN </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = CLOSED 1 = OPEN
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = CLOSED 1 = OPEN				

EDF TELEMETRY

P-0003	LT_V1_S_POS		PROP			
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE1_SEC_POSITION Data Range:	Channel Type: DISCRETE MUX Address: 8110-1 Connector-Pin: J7-16				
Latch valve 1 secondary position indicator.						
Loss of Function: Must activate PV1 to open pressurization system if latch valve 1 fails in the closed position. On-off capability of pressure system via latch valve is lost.						
Recommended Action: Observe LT_V1_P_POS for compliance with command. Observe P1 thru P6 for indication of pressurant flow. If no flow plan for usage of pyro valves 1-6.						
Impact of Loss of Tlm: Loss of independant knowledge of LV1 position.						
Alternate Telemetry: P-0002 (LT_V1_P_POS) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = OPEN 1 = CLOSED </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OPEN 1 = CLOSED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OPEN 1 = CLOSED				
P-0004	LT_V2_ENA		PROP			
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE2_ENAB_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810F-5 Connector-Pin: J12-15				
Latch valve 2 and 3 arm status.						
Loss of Function: Unable to open or isolate the even branch of the REAs.						
Recommended Action: Actuate LV2 and observe position indicators. If no response, operate alternate branch with LV3.						
Impact of Loss of Tlm: Continue to operate as if function is operable. Observe LV2 position indicators.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				

EDF TELEMETRY

P-0005	LT_V2_P_POS		PROP
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE2_PRI_POSITION Data Range:	Channel Type: DISCRETE MUX Address: 811B-6 Connector-Pin: J12-59	
Latch valve 2 primary position indicator.			
Loss of Function: Failure to open required usage of alternate branch LV3. Failure to close results in no backup against leakage from even branch of REAs.			
Recommended Action: Observe LT_V2_S_POS for compliance with command. If none, operate odd REA branch.			
Impact of Loss of Tlm: Respond according to LT_V2_S_POS.			
Alternate Telemetry: P-0006 (LT_V2_S_POS)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OPEN 1 = CLOSED	
P-0006	LT_V2_S_POS		PROP
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE2_SEC_POSITION Data Range:	Channel Type: DISCRETE MUX Address: 8109-8 Connector-Pin: J12-105	
Latch valve 2 secondary position indicator.			
Loss of Function: Failure to open required usage of alternate branch LV3. Failure to close results in no backup against leakage from even branch of REAs.			
Recommended Action: Observe LT_V2_P_POS for compliance with command. If none, operate odd REA branch.			
Impact of Loss of Tlm: Respond according to LT_V2_P_POS.			
Alternate Telemetry: P-0005 (LT_V2_P_POS)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = CLOSED 1 = OPEN	

EDF TELEMETRY

P-0007	LT_V3_ENA		PROP			
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE3_ENAB_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810F-1 Connector-Pin: J7-15				
Latch 2 and 3 enable status.						
Loss of Function: Unable to open or isolate the odd branch of the REAs.						
Recommended Action: Actuate LV3 and observe position indicators. If no response, operate alternate branch with LV2.						
Impact of Loss of Tlm: Continue to operate as if function is operable. Observe LV3 position indicators.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				
P-0008	LT_V3_P_POS		PROP			
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE3_PRI_POSITION Data Range:	Channel Type: DISCRETE MUX Address: 811B-2 Connector-Pin: J7-59				
Latch valve 3 primary position indicator.						
Loss of Function: Failure to open required usage of alternate branch LV2. Failure to close results in no backup against leakage from odd branch of REAs.						
Recommended Action: Observe LT_V3_S_POS for compliance with command. If none, operate even REA branch.						
Impact of Loss of Tlm: Respond according to LT_V3_S_POS.						
Alternate Telemetry: P-0009 (LT_V3_S_POS) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = OPEN 1 = CLOSED </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OPEN 1 = CLOSED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OPEN 1 = CLOSED				

EDF TELEMETRY

P-0009	LT_V3_S_POS		PROP
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE3_SEC_POSITION Data Range:	Channel Type: DISCRETE MUX Address: 8110-5 Connector-Pin: J12-16	
Latch valve 3 secondary position indicator.			
Loss of Function: Failure to open required usage of alternate branch LV2. Failure to close results in no backup against leakage from odd branch of REAs.			
Recommended Action: Observe LT_V3_P_POS for compliance with command. If none, operate even REA branch.			
Impact of Loss of Tlm: Respond according to LT_V3_P_POS.			
Alternate Telemetry: P-0008 (LT_V3_P_POS)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = CLOSED 1 = OPEN	
P-0010	LT_V4_ARM		PROP
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE4_ARM_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8109-3 Connector-Pin: J7-73	
Latch valve 4 arm status.			
Loss of Function: Failure to open requires use of alternate PV13 to supply NTO to MEA. Failure to close results in no backup to leakage from MEA NTO valve.			
Recommended Action: Enable and actuate LT4 and observe LV4 position indicators. If no open indication, actuate PV13. If no close indication, watch for leakage.			
Impact of Loss of Tlm: Proceed as though LV4 properly responded to command.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM	

EDF TELEMETRY

P-0011	LT_V4_ENA		PROP																		
Data Type:	Status	Description:	LATCH_VALVE4_ENAB_STATUS																		
# Bits:	1	Data Range:	Channel Type: DISCRETE MUX Address: 8109-7 Connector-Pin: J12-73																		
Latch valve 4 enable status.																					
Loss of Function: Failure to open requires use of alternate PV13 to supply NTO to MEA. Failure to close results in no backup to leakage from MEA NTO valve. Recommended Action: Arm and actuate LT4 and observe LV4 position indicators. If no open indication, actuate PV13. If no close indication, watch for leakage. Impact of Loss of Tlm: Proceed as though LV4 properly responded to command.																					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td><td style="width: 33%;">Conversion Type: N/A</td><td style="width: 33%;">State Names: 0 = ENABLE 1 = DISABLE</td></tr> <tr> <td>Test Type: DN</td><td></td><td></td></tr> <tr> <td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr> <td>Red Alarm Mask:</td><td></td><td></td></tr> <tr> <td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr> <td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names: 0 = ENABLE 1 = DISABLE	Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A	State Names: 0 = ENABLE 1 = DISABLE																			
Test Type: DN																					
Red Alarm Type: OFF																					
Red Alarm Mask:																					
In Hysteresis: 0	CCL Process: OFF																				
Out Hysteresis: 0	CCL Param: 0																				
P-0012	LT_V4_P_POS		PROP																		
Data Type:	Status	Description:	LATCH_VALVE4_PRI_POSITION																		
# Bits:	1	Data Range:	Channel Type: DISCRETE MUX Address: 8103-4 Connector-Pin: J7-99																		
Latch valve 4 primary position indicator.																					
Loss of Function: Failure to open requires use of alternate PV13 to supply NTO to MEA. Failure to close results in no backup to leakage from MEA NTO valve. Recommended Action: Observe LT_V4_S_POS for compliance with command. If no open indication, actuate PV13. If no close indication, watch for leakage. Impact of Loss of Tlm: Proceed according to LT_V4_S_POS.																					
Alternate Telemetry: P-0013 (LT_V4_S_POS) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td><td style="width: 33%;">Conversion Type: N/A</td><td style="width: 33%;">State Names: 0 = CLOSED 1 = OPEN</td></tr> <tr> <td>Test Type: DN</td><td></td><td></td></tr> <tr> <td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr> <td>Red Alarm Mask:</td><td></td><td></td></tr> <tr> <td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr> <td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names: 0 = CLOSED 1 = OPEN	Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A	State Names: 0 = CLOSED 1 = OPEN																			
Test Type: DN																					
Red Alarm Type: OFF																					
Red Alarm Mask:																					
In Hysteresis: 0	CCL Process: OFF																				
Out Hysteresis: 0	CCL Param: 0																				

EDF TELEMETRY

P-0013	LT_V4_S_POS		PROP			
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE4_SEC_POSITION Data Range:	Channel Type: DISCRETE MUX Address: 8110-2 Connector-Pin: J7-48				
Latch valve 4 secondary position indicator.						
Loss of Function: Failure to open requires use of alternate PV13 to supply NTO to MEA. Failure to close results in no backup to leakage from MEA NTO valve.						
Recommended Action: Observe LT_V4_P_POS for compliance with command. If no open indication, actuate PV13. If no close indication, watch for leakage.						
Impact of Loss of Tlm: Proceed according to LT_V4_P_POS.						
Alternate Telemetry: P-0012 (LT_V4_P_POS) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = OPEN 1 = CLOSED </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OPEN 1 = CLOSED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OPEN 1 = CLOSED				
P-0014	LT_V5_ARM		PROP			
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE5_ARM_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8107-2 Connector-Pin: J7-39				
Latch valve 5 arm status.						
Loss of Function: Failure to open requires use of alternate PV14 to supply N2H4 to MEA. Failure to close results in no backup to leakage from MEA N2H4 valve.						
Recommended Action: Enable and actuate LT5 and observe LV5 position indicators. If no open indication, actuate PV14. If no close indication, watch for leakage.						
Impact of Loss of Tlm: Proceed as though LV5 properly responded to command.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM				

EDF TELEMETRY

P-0015	LT_V5_ENA		PROP			
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE5_ENAB_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8107-6 Connector-Pin: J12-39				
Latch valve 5 enable status.						
Loss of Function: Failure to open requires use of alternate PV14 to supply N2H4 to MEA. Failure to close results in no backup to leakage from MEA N2H4 valve.						
Recommended Action: Arm and actuate LT5 and observe LV5 position indicators. If no open indication, actuate PV14. If no close indication, watch for leakage.						
Impact of Loss of Tlm: Proceed as though LV5 properly responded to command.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				
P-0016	LT_V5_P_POS		PROP			
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE5_PRI_POSITION Data Range:	Channel Type: DISCRETE MUX Address: 8102-1 Connector-Pin: J7-2				
Latch valve 5 primary position indicator.						
Loss of Function: Failure to open requires use of alternate PV14 to supply N2H4 to MEA. Failure to close results in no backup to leakage from MEA N2H4 valve.						
Recommended Action: Observe LT_V5_S_POS for compliance with command. If no open indication, actuate PV14. If no close indication, watch for leakage.						
Impact of Loss of Tlm: Proceed according to LT_V5_S_POS.						
Alternate Telemetry: P-0017 (LT_V5_S_POS) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = CLOSED 1 = OPEN </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = CLOSED 1 = OPEN
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = CLOSED 1 = OPEN				

EDF TELEMETRY

P-0017	LT_V5_S_POS		PROP																		
Data Type: STATUS # Bits: 1	Description: LATCH_VALVE5_SEC_POSITION Data Range:	Channel Type: DISCRETE MUX Address: 8110-6 Connector-Pin: J12-48																			
Latch valve 5 secondary position indicator.																					
Loss of Function: Failure to open requires use of alternate PV14 to supply N2H4 to MEA. Failure to close results in no backup to leakage from MEA N2H4 valve.																					
Recommended Action: Observe LT_V5_P_POS for compliance with command. If no open indication, actuate PV14. If no close indication, watch for leakage.																					
Impact of Loss of Tlm: Proceed according to LT_V5_P_POS.																					
Alternate Telemetry: P-0016 (LT_V5_P_POS) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td> <td style="width: 33%;">Conversion Type: N/A</td> <td style="width: 33%;">State Names: 0 = OPEN 1 = CLOSED</td> </tr> <tr> <td>Test Type: DN</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Mask:</td> <td></td> <td></td> </tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td></td> </tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td></td> </tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names: 0 = OPEN 1 = CLOSED	Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A	State Names: 0 = OPEN 1 = CLOSED																			
Test Type: DN																					
Red Alarm Type: OFF																					
Red Alarm Mask:																					
In Hysteresis: 0	CCL Process: OFF																				
Out Hysteresis: 0	CCL Param: 0																				
P-0020	ME_SD_A_ARM		PROP																		
Data Type: STATUS # Bits: 1	Description: MAIN_ENGINE_SIDE_A_ARM_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 811D-8 Connector-Pin: J12-125																			
Main engine side A arm status.																					
Loss of Function: Require MEA to be operated via Main Engine Side B.																					
Recommended Action: Arm ME Side B.																					
Impact of Loss of Tlm: Arm ME Side B.																					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td> <td style="width: 33%;">Conversion Type: N/A</td> <td style="width: 33%;">State Names: 0 = ARM 1 = DISARM</td> </tr> <tr> <td>Test Type: DN</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Mask:</td> <td></td> <td></td> </tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td></td> </tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td></td> </tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names: 0 = ARM 1 = DISARM	Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A	State Names: 0 = ARM 1 = DISARM																			
Test Type: DN																					
Red Alarm Type: OFF																					
Red Alarm Mask:																					
In Hysteresis: 0	CCL Process: OFF																				
Out Hysteresis: 0	CCL Param: 0																				

EDF TELEMETRY

P-0021	ME_SD_A_ENA		PROP
Data Type: STATUS # Bits: 1	Description: MAIN_ENGINE_SIDE_A_ENAB_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 811D-2 Connector-Pin: J7-61	
Main engine side A enable status.			
Loss of Function: Require MEA to be operated via Main Engine Side B.			
Recommended Action: Enable ME Side A.			
Impact of Loss of Tlm: Enable ME Side B.			
Alternate Telemetry: ARM ME Side B.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	
P-0022	ME_SD_B_ARM		PROP
Data Type: STATUS # Bits: 1	Description: MAIN_ENGINE_SIDE_B_ARM_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810F-4 Connector-Pin: J7-111	
Main engine side B arm status.			
Loss of Function: Require MEA to be operated via Main Engine Side A.			
Recommended Action: Arm ME Side A.			
Impact of Loss of Tlm: Arm ME Side A.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM	

EDF TELEMETRY

P-0023	ME_SD_B_ENA		PROP			
Data Type: STATUS # Bits: 1	Description: MAIN_ENGINE_SIDE_B_ENAB_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810F-8 Connector-Pin: J12-111				
Main engine side A enable status.						
Loss of Function: Require MEA to be operated via Main Engine Side A.						
Recommended Action: Enable ME Side A.						
Impact of Loss of Tlm: Enable ME Side A.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				
P-0024	ME_FLNG_A_EN		PROP			
Data Type: STATUS # Bits: 1	Description: MAIN_ENGINE_FLANGE_HTR_A_ENAB Data Range:	Channel Type: DISCRETE MUX Address: 8109-4 Connector-Pin: J7-105				
Main engine flange/injector heater A enable status.						
Loss of Function: Loss of ME flange heater redundancy.						
Recommended Action: Use ME flange heater B.						
Impact of Loss of Tlm: Enable and command on alternate ME flange heater.						
Alternate Telemetry: Related Measurements: T-0159 (ME_VALVE_T1), T-0161 (ME_FLANGE_T1), T-0162 (ME_FLANGE_T2)						
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				

EDF TELEMETRY

P-0025	ME_FLNG_A_ON		PROP
Data Type: STATUS # Bits: 1	Description: MAIN_ENGINE_FLANGE_HTR_A_ON Data Range:	Channel Type: DISCRETE MUX Address: 810E-3 Connector-Pin: J7-78	
Main engine flange/injector heater A on status.			
Loss of Function: Loss of ME flange heater redundancy.			
Recommended Action: Use ME flange heater B.			
Impact of Loss of Tlm: Enable and command on alternate ME flange heater.			
Alternate Telemetry: Related Measurements: T-0159 (ME_VALVE_T1), T-0161 (ME_FLANGE_T1), T-0162 (ME_FLANGE_T2)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF	
P-0026	ME_FLNG_B_EN		PROP
Data Type: STATUS # Bits: 1	Description: MAIN_ENGINE_FLANGE_HTR_B_ENAB Data Range:	Channel Type: DISCRETE MUX Address: 8111-1 Connector-Pin: J7-17	
Main engine flange/injector heater B enable status.			
Loss of Function: Loss of ME flange heater redundancy.			
Recommended Action: Use ME flange heater A.			
Impact of Loss of Tlm: Enable and command on alternate ME flange heater.			
Alternate Telemetry: Related Measurements: T-0159 (ME_VALVE_T1), T-0161 (ME_FLANGE_T1), T-0162 (ME_FLANGE_T2)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	

EDF TELEMETRY

P-0027	ME_FLNG_B_ON	PROP
Data Type: STATUS # Bits: 1	Description: MAIN_ENGINE_FLANGE_HTR_B_ON Data Range:	Channel Type: DISCRETE MUX Address: 810E-7 Connector-Pin: J12-78
Main engine flange/injector heater B on status.		
Loss of Function: Loss of ME flange heater redundancy.		
Recommended Action: Use ME flange heater A.		
Impact of Loss of Tlm: Enable and command on alternate ME flange heater.		
Alternate Telemetry: Related Measurements: T-0159 (ME_VALVE_T1), T-0161 (ME_FLANGE_T1), T-0162 (ME_FLANGE_T2)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ON 1 = OFF
P-0031	THR_CB_01_EN	PROP
Data Type: STATUS # Bits: 1	Description: THRUSTER_01_ENAB_CATBED_ON_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8118-8 Connector-Pin: J12-120
Thruster 01 enable and Cat Bed heater on.		
Loss of Function: Thruster cannot be fired unless it is enabled.		
Recommended Action: Enable alternate thruster string.		
Impact of Loss of Tlm: Monitor catalyst bed temperatures and valve temperatures. Test for thruster usability. If none, use alternate thruster string.		
Alternate Telemetry: Related Measurements: Change in catalyst bed temperatures and valve temperatures.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE

EDF TELEMETRY

P-0032	THR_CB_02_EN	PROP
Data Type: STATUS # Bits: 1	Description: THRUSTER_02_ENAB_CATBED_ON_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8118-7 Connector-Pin: J12-88
Thruster 02 enable and Cat Bed heater on.		
Loss of Function: Thruster cannot be fired unless it is enabled.		
Recommended Action: Enable alternate thruster string.		
Impact of Loss of Tlm: Monitor catalyst bed temperatures and valve temperatures. Test for thruster usability. If none, use alternate thruster string.		
Alternate Telemetry: Related Measurements: Change in catalyst bed temperatures and valve temperatures.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
P-0033	THR_CB_03_EN	PROP
Data Type: STATUS # Bits: 1	Description: THRUSTER_03_ENAB_CATBED_ON_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8118-6 Connector-Pin: J12-56
Thruster 03 enable and Cat Bed heater on.		
Loss of Function: Thruster cannot be fired unless it is enabled.		
Recommended Action: Enable alternate thruster string.		
Impact of Loss of Tlm: Monitor catalyst bed temperatures and valve temperatures. Test for thruster usability. If none, use alternate thruster string.		
Alternate Telemetry: Related Measurements: Change in catalyst bed temperatures and valve temperatures.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE

EDF TELEMETRY

P-0034	THR_CB_04_EN	PROP
Data Type: STATUS # Bits: 1	Description: THRUSTER_04_ENAB_CATBED_ON_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8118-5 Connector-Pin: J12-24
Thruster 04 enable and Cat Bed heater on.		
Loss of Function: Thruster cannot be fired unless it is enabled.		
Recommended Action: Enable alternate thruster string.		
Impact of Loss of Tlm: Monitor catalyst bed temperatures and valve temperatures. Test for thruster usability. If none, use alternate thruster string.		
Alternate Telemetry: Related Measurements: Change in catalyst bed temperatures and valve temperatures.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
P-0035	THR_CB_05_EN	PROP
Data Type: STATUS # Bits: 1	Description: THRUSTER_05_ENAB_CATBED_ON_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8118-4 Connector-Pin: J7-120
Thruster 05 enable and Cat Bed heater on.		
Loss of Function: Thruster cannot be fired unless it is enabled.		
Recommended Action: Enable alternate thruster string.		
Impact of Loss of Tlm: Monitor catalyst bed temperatures and valve temperatures. Test for thruster usability. If none, use alternate thruster string.		
Alternate Telemetry: Related Measurements: Change in catalyst bed temperatures and valve temperatures.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE

EDF TELEMETRY

P-0036	THR_CB_06_EN	PROP
Data Type: STATUS # Bits: 1	Description: THRUSTER_06_ENAB_CATBED_ON_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8118-3 Connector-Pin: J7-88
Thruster 06 enable and Cat Bed heater on.		
Loss of Function: Thruster cannot be fired unless it is enabled.		
Recommended Action: Enable alternate thruster string.		
Impact of Loss of Tlm: Monitor catalyst bed temperatures and valve temperatures. Test for thruster usability. If none, use alternate thruster string.		
Alternate Telemetry: Related Measurements: Change in catalyst bed temperatures and valve temperatures.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
P-0037	THR_CB_07_EN	PROP
Data Type: STATUS # Bits: 1	Description: THRUSTER_07_ENAB_CATBED_ON_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8118-2 Connector-Pin: J7-56
Thruster 07 enable and Cat Bed heater on.		
Loss of Function: Thruster cannot be fired unless it is enabled.		
Recommended Action: Enable alternate thruster string.		
Impact of Loss of Tlm: Monitor catalyst bed temperatures and valve temperatures. Test for thruster usability. If none, use alternate thruster string.		
Alternate Telemetry: Related Measurements: Change in catalyst bed temperatures and valve temperatures.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE

EDF TELEMETRY

P-0038	THR_CB_08_EN		PROP
Data Type: STATUS # Bits: 1	Description: THRUSTER_08_ENAB_CATBED_ON_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8118-1 Connector-Pin: J7-24	
Thruster 08 enable and Cat Bed heater on.			
Loss of Function: Thruster cannot be fired unless it is enabled.			
Recommended Action: Enable alternate thruster string.			
Impact of Loss of Tlm: Monitor catalyst bed temperatures and valve temperatures. Test for thruster usability. If none, use alternate thruster string.			
Alternate Telemetry: Related Measurements: Change in catalyst bed temperatures and valve temperatures.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	
P-0039	THR_CB_09_EN		PROP
Data Type: STATUS # Bits: 1	Description: THRUSTER_09_ENAB_CATBED_ON_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8114-6 Connector-Pin: J12-52	
Thruster 09 enable and Cat Bed heater on.			
Loss of Function: Thruster cannot be fired unless it is enabled.			
Recommended Action: Enable alternate thruster string.			
Impact of Loss of Tlm: Monitor catalyst bed temperatures and valve temperatures. Test for thruster usability. If none, use alternate thruster string.			
Alternate Telemetry: Related Measurements: Change in catalyst bed temperatures and valve temperatures.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	

EDF TELEMETRY

P-0040	THR_CB_10_EN	PROP
Data Type: STATUS # Bits: 1	Description: THRUSTER_10_ENAB_CATBED_ON_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8114-5 Connector-Pin: J12-20
Thruster 10 enable and Cat Bed heater on.		
Loss of Function: Thruster cannot be fired unless it is enabled.		
Recommended Action: Enable alternate thruster string.		
Impact of Loss of Tlm: Monitor catalyst bed temperatures and valve temperatures. Test for thruster usability. If none, use alternate thruster string.		
Alternate Telemetry: Related Measurements: Change in catalyst bed temperatures and valve temperatures.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
P-0041	THR_CB_11_EN	PROP
Data Type: STATUS # Bits: 1	Description: THRUSTER_11_ENAB_CATBED_ON_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8114-2 Connector-Pin: J7-52
Thruster 11 enable and Cat Bed heater on.		
Loss of Function: Thruster cannot be fired unless it is enabled.		
Recommended Action: Enable alternate thruster string.		
Impact of Loss of Tlm: Monitor catalyst bed temperatures and valve temperatures. Test for thruster usability. If none, use alternate thruster string.		
Alternate Telemetry: Related Measurements: Change in catalyst bed temperatures and valve temperatures.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE

EDF TELEMETRY

P-0042	THR_CB_12_EN	PROP
Data Type: STATUS # Bits: 1	Description: THRUSTER_12_ENAB_CATBED_ON_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8114-1 Connector-Pin: J7-20
Thruster 12 enable and Cat Bed heater on.		
Loss of Function: Thruster cannot be fired unless it is enabled.		
Recommended Action: Enable alternate thruster string.		
Impact of Loss of Tlm: Monitor catalyst bed temperatures and valve temperatures. Test for thruster usability. If none, use alternate thruster string.		
Alternate Telemetry: Related Measurements: Change in catalyst bed temperatures and valve temperatures.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
P-0043	THR_CBevenSE	PROP
Data Type: STATUS # Bits: 1	Description: EVEN_SEC_CB_HTR_TLM Data Range:	Channel Type: DISCRETE MUX Address: 8110-8 Connector-Pin: J12-112
Thruster even string secondary catbed heater enable status.		
Loss of Function: Loss of enable/disable of even string secondary cat bed heaters. Only a problem if power margin a concern during thruster activities or if primary heater failure.		
Recommended Action: None		
Impact of Loss of Tlm: Monitor thruster catalyst bed temperature and valve temperatures.		
Alternate Telemetry: Related Measurements: Change in catalyst bed temperatures and valve temperatures.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE

EDF TELEMETRY

P-0044	THR_CBoddSE	PROP
Data Type: STATUS # Bits: 1	Description: ODD_SEC_CB_HTR_TLM Data Range:	Channel Type: DISCRETE MUX Address: 8102-3 Connector-Pin: J7-66
Thruster odd string secondary catbed heater enable status.		
Loss of Function: Loss of enable/disable of even string secondary cat bed heaters. Only a problem if power margin a concern during thruster activities or if primary heater failure.		
Recommended Action: None		
Impact of Loss of Tlm: Monitor thruster catalyst bed temperature and valve temperatures.		
Alternate Telemetry: Related Measurements: Change in catalyst bed temperatures and valve temperatures.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
P-0045	THRoddLO_ARM	PROP
Data Type: STATUS # Bits: 1	Description: THRUSTERS_1_3_5_ARM_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 811D-7 Connector-Pin: J12-93
Thrusters 1,3,5 arm status.		
Loss of Function: Thrusters cannot fire unless they are armed.		
Recommended Action: Arm alternate thruster string.		
Impact of Loss of Tlm: Test for thruster string availability. If none, use alternate thruster string.		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM

EDF TELEMETRY

P-0046	THRoddHI_ARM		PROP			
Data Type: STATUS # Bits: 1	Description: THRUSTERS_7_9_12_ARM_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810E-6 Connector-Pin: J12-46				
Thrusters 7,9,12 arm status.						
Loss of Function: Thrusters cannot fire unless they are armed.						
Recommended Action: Arm alternate thruster string.						
Impact of Loss of Tlm: Test for thruster string availability. If none, use alternate thruster string.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM				
P-0047	THRevnLO_ARM		PROP			
Data Type: STATUS # Bits: 1	Description: THRUSTERS_2_4_6_ARM_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810F-3 Connector-Pin: J7-79				
Thrusters 2,4,6 arm status.						
Loss of Function: Thrusters cannot fire unless they are armed.						
Recommended Action: Arm alternate thruster string.						
Impact of Loss of Tlm: Test for thruster string availability. If none, use alternate thruster string.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM				

EDF TELEMETRY

P-0048	THRevnHI_ARM		PROP			
Data Type: STATUS # Bits: 1	Description: THRUSTERS_8_10_11_ARM_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810E-2 Connector-Pin: J7-46				
Thrusters 8,10,11 arm status.						
Loss of Function: Thrusters cannot fire unless they are armed.						
Recommended Action: Arm alternate thruster string.						
Impact of Loss of Tlm: Test for thruster string availability. If none, use alternate thruster string.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM				
P-0060	CNTpyroA_ENA		PROP			
Data Type: UNSIGNED # Bits: 8	Description: CONTINGENCY_PYRO_A_ENAB_STAT Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 8244 Connector-Pin: J8-37				
Contingency pyro A enable status voltage. Enables pyro valves PV1, PV7, PV8, PV9, PV13 and PV14. (See change MU0124)						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: VOLTS </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02				

EDF TELEMETRY

P-0061	CNTpyroA_ARM		PROP			
Data Type: STATUS # Bits: 1	Description: CONTINGENCY_PYRO_A_ARM_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8119-6 Connector-Pin: J12-57				
Contingency pyro A arm status. Arms pyro valves PV1, PV7, PV8, PV9, PV13 and PV14.						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM				
P-0062	CNTpyroB_ENA		PROP			
Data Type: UNSIGNED # Bits: 8	Description: CONTINGENCY_PYRO_B_ENAB_STAT Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 83C7 Connector-Pin: J11-55				
Contingency pyro B enable status voltage. Enables pyro valves PV1, PV7, PV8, PV9, PV13 and PV14. (See change MU0124)						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: VOLTS </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02				

EDF TELEMETRY

P-0063	CNTpyroB_ARM	PROP			
Data Type: STATUS # Bits: 1	Description: CONTINGENCY_PYRO_B_ARM_STAT Data Range:	Channel Type: DISCRETE MUX Address: 811D-3 Connector-Pin: J7-93			
Contingency pyro B arm status. Arms pyro valves PV1, PV7, PV8, PV9, PV13 and PV14.					
Loss of Function: Indicated pyro circuit cannot be fired.					
Recommended Action: Use alternate pyro fire circuit.					
Impact of Loss of Tlm: None					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM			
P-0064	MAPpyroA_ENA	PROP			
Data Type: UNSIGNED # Bits: 8	Description: MAPPING_PYRO_A_ENAB_STAT Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 82AA Connector-Pin: J9-42			
Mapping pyro A enable status voltage. Enables pyro valves PV2 and PV12 and enables pyros HGA1, HGA2 and HGA3. (See change MU0124)					
Loss of Function: Indicated pyro circuit cannot be fired.					
Recommended Action: Use alternate pyro fire circuit.					
Impact of Loss of Tlm: None					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px;"> Conversion Type: POLY EU Units: VOLTS </td> <td style="padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02 </td> </tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02			

EDF TELEMETRY

P-0065	MAPpyroA_ARM		PROP			
Data Type: STATUS # Bits: 1	Description: MAPPING_PYRO_A_ARM_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8110-4 Connector-Pin: J7-112				
Mapping pyro A arm status. Arms pyro valves PV2 and PV12 and arms pyros HGA1, HGA2 and HGA3.						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM				
P-0066	MAPpyroB_ENA		PROP			
Data Type: UNSIGNED # Bits: 8	Description: MAPPING_PYRO_B_ENAB_STAT Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 8347 Connector-Pin: J10-55				
Mapping pyro B enable status voltage. Enables pyro valves PV2 and PV12 and enables pyros HGA1, HGA2 and HGA3. (See change MU0124)						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: VOLTS </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02				

EDF TELEMETRY

P-0067	MAPpyroB_ARM		PROP			
Data Type: STATUS # Bits: 1	Description: MAPPING_PYRO_B_ARM_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8109-6 Connector-Pin: J12-41				
Mapping pyro B arm status. Arms pyro valves PV2 and PV12 and arms pyros HGA1, HGA2 and HGA3.						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM				
P-0068	MIDpyroA_ENA		PROP			
Data Type: STATUS # Bits: 1	Description: MID_PYRO_A_ENAB_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8109-5 Connector-Pin: J12-9				
Mid course pyro A enable status. Enables pyro valves PV3, PV4, PV5, PV10 and PV11.						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				

EDF TELEMETRY

P-0069	MIDpyroA_ARM		PROP			
Data Type: STATUS # Bits: 1	Description: MID_PYRO_A_ARM_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8109-1 Connector-Pin: J7-9				
Mid course pyro A arm status. Arms pyro valves PV3, PV4, PV5, PV10 and PV11.						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM				
P-0070	MIDpyroB_ENA		PROP			
Data Type: STATUS # Bits: 1	Description: MID_PYRO_B_ENAB_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8110-3 Connector-Pin: J7-80				
Mid course pyro B enable status. Enables pyro valves PV3, PV4, PV5, PV10 and PV11.						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				

EDF TELEMETRY

P-0071	MIDpyroB_ARM	PROP			
Data Type: STATUS # Bits: 1	Description: MID_PYRO_B_ARM_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8110-7 Connector-Pin: J12-80			
Mid course pyro B arm status. Arms pyro valves PV3, PV4, PV5, PV10 and PV11.					
Loss of Function: Indicated pyro circuit cannot be fired.					
Recommended Action: Use alternate pyro fire circuit.					
Impact of Loss of Tlm: None					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px; vertical-align: top;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM			
P-0072	PTCMyra_ENA	PROP			
Data Type: UNSIGNED # Bits: 8	Description: PRE_TCM_PYRO_A_ENAB_STAT Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 82CA Connector-Pin: J9-58			
Pre-TCM pyro A enable status voltage. Enables the A side PV6, SA1 and SA1 circuits. (See change MU0124)					
Loss of Function: Indicated pyro circuit cannot be fired.					
Recommended Action: Use alternate pyro fire circuit.					
Impact of Loss of Tlm: None					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: POLY EU Units: VOLTS </td> <td style="padding: 5px; vertical-align: top;"> Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02 </td> </tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02			

EDF TELEMETRY

P-0073	PTCMyrB_ENA		PROP			
Data Type: UNSIGNED # Bits: 8	Description: PRE_TCM_PYRO_B_ENAB_STAT Data Range: 0.000:5.100	Channel Type: HL ANALOG MUX Address: 83C6 Connector-Pin: J11-54				
Pre-TCM pyro B enable status voltage. Enables the B side PV6, SA1 and SA1 circuits. (See change MU0124)						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: VOLTS CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E-02				
P-0074	PV6pyroA_ARM		PROP			
Data Type: STATUS # Bits: 1	Description: PYRO_VALVE_6_A_ARM_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8119-1 Connector-Pin: J7-25				
Pyro valve 6 A arm status.						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM				

EDF TELEMETRY

P-0075	PV6pyroB_ARM		PROP			
Data Type: STATUS # Bits: 1	Description: PYRO_VALVE_6_B_ARM_STAT Data Range:	Channel Type: DISCRETE MUX Address: 810F-7 Connector-Pin: J12-79				
Pyro valve 6 B arm status.						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM				
P-0076	SA+YpyrA_ARM		PROP			
Data Type: STATUS # Bits: 1	Description: SA+Y_PYRO_A_ARM_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8119-7 Connector-Pin: J12-89				
+Y solar array pyro A arm status. Arms SA1-1, SA1-2, SA1-3 and SA1-4						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM				

EDF TELEMETRY

P-0077	SA+YpyrB_ARM		PROP			
Data Type: STATUS # Bits: 1	Description: SA+Y_PYRO_B_ARM_STAT Data Range:	Channel Type: DISCRETE MUX Address: 811D-4 Connector-Pin: J7-125				
+Y solar array pyro B arm status. Arms SA1-1, SA1-2, SA1-3 and SA1-4						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM				
P-0078	SA-YpyrA_ARM		PROP			
Data Type: STATUS # Bits: 1	Description: SA-Y_PYRO_A_ARM_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8119-4 Connector-Pin: J7-121				
-Y solar array pyro A arm status. Arms SA2-1, SA2-2, SA2-3 and SA2-4						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM				

EDF TELEMETRY

P-0079		SA-YpyrB_ARM	PROP			
Data Type: STATUS # Bits: 1	Description: SA-Y_PYRO_B_ARM_STAT Data Range:	Channel Type: DISCRETE MUX Address: 811D-6 Connector-Pin: J12-61				
-Y solar array pyro B arm status. Arms SA2-1, SA2-2, SA2-3 and SA2-4						
Loss of Function: Indicated pyro circuit cannot be fired.						
Recommended Action: Use alternate pyro fire circuit.						
Impact of Loss of Tlm: None						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ARM 1 = DISARM </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ARM 1 = DISARM				
P-0101		GHe_PRS	PROP			
Data Type: UNSIGNED # Bits: 8	Description: GHe_TANK_PRESSURE Data Range: 0406:4041.395	Channel Type: HL ANALOG MUX Address: 82AC Connector-Pin: J9-44				
Helium tank pressure. Pressure transducer P1.						
Loss of Function: None						
Recommended Action: None						
Impact of Loss of Tlm: Observe remaining pressure transducers to interpret system performance.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: PSI </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.06193E-01 n1 = 1.58384E+01 n2 = 3.39355E-05 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI	Coefficients: n0 = 4.06193E-01 n1 = 1.58384E+01 n2 = 3.39355E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI	Coefficients: n0 = 4.06193E-01 n1 = 1.58384E+01 n2 = 3.39355E-05				

EDF TELEMETRY

P-0102	LINE_PRS		PROP			
Data Type: UNSIGNED # Bits: 8	Description: LINE_PRESSURE Data Range: 1.073:406.469	Channel Type: HL ANALOG MUX Address: 83A5 Connector-Pin: J11-37				
Upper line pressure. Pressure transducer P2.						
Loss of Function: None						
Recommended Action: None						
Impact of Loss of Tlm: Observe remaining pressure transducers to interpret system performance.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: PSI CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.07320E+00 n1 = 1.61583E+00 n2 = -1.02118E-04 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.07320E+00 n1 = 1.61583E+00 n2 = -1.02118E-04
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.07320E+00 n1 = 1.61583E+00 n2 = -1.02118E-04				
P-0103	NTO_IN_PRS		PROP			
Data Type: UNSIGNED # Bits: 8	Description: NTO_TANK_INLET_PRESSURE Data Range: -0.105:407.798	Channel Type: HL ANALOG MUX Address: 832C Connector-Pin: J10-44				
NTO tank inlet pressure. Pressure transducer P3.						
Loss of Function: None						
Recommended Action: Observe pressure transducer P5 (it measures same pressure as P3).						
Impact of Loss of Tlm: Observe remaining pressure transducers to interpret system performance.						
Alternate Telemetry: P-0105 (NTO_OUT_PRS) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: PSI CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -1.04864E-01 n1 = 1.62673E+00 n2 = -1.06312E-04 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.04864E-01 n1 = 1.62673E+00 n2 = -1.06312E-04
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.04864E-01 n1 = 1.62673E+00 n2 = -1.06312E-04				

EDF TELEMETRY

P-0104	N2H4_IN_PRS	PROP
Data Type: UNSIGNED # Bits: 8	Description: N2H4_TANKS_INLET_PRESSURE Data Range: 3.585:411.659	Channel Type: HL ANALOG MUX Address: 8324 Connector-Pin: J10-36
N2H4 tanks inlet pressure. Pressure transducer P4.		
Loss of Function: None		
Recommended Action: Observe pressure transducer P6 (it measures same pressure as P4).		
Impact of Loss of Tlm: Observe remaining pressure transducers to interpret system performance.		
Alternate Telemetry: P-0106 (N2H4_OUT_PRS)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: OFF CCL Param: 0	Coefficients: n0 = 3.58474E+00 n1 = 1.61415E+00 n2 = -5.43559E-05
P-0105	NTO_OUT_PRS	PROP
Data Type: UNSIGNED # Bits: 8	Description: NTO_TANK_OUTLET_PRESSURE Data Range: 0.955:406.387	Channel Type: HL ANALOG MUX Address: 82A4 Connector-Pin: J9-36
NTO tank outlet pressure. Pressure transducer P5.		
Loss of Function: None		
Recommended Action: Observe pressure transducer P3 (it measures same pressure as P5).		
Impact of Loss of Tlm: Observe remaining pressure transducers to interpret system performance.		
Alternate Telemetry: P-0103 (NTO_IN_PRS)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.55317E-01 n1 = 1.58876E+00 n2 = 4.57847E-06

EDF TELEMETRY

P-0106	N2H4_OUT_PRS		PROP			
Data Type: UNSIGNED # Bits: 8	Description: N2H4_TANKS_OUTLET_PRESSURE Data Range: 2.283:412.300	Channel Type: HL ANALOG MUX Address: 839C Connector-Pin: J11-28				
N2H4 tank outlet pressure. Pressure transducer P6.						
Loss of Function: None						
Recommended Action: Observe pressure transducer P4 (it measures same pressure as P6).						
Impact of Loss of Tlm: Observe remaining pressure transducers to interpret system performance.						
Alternate Telemetry: P-0104 (N2H4_IN_PRS) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: PSI CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 2.28259E+00 n1 = 1.59003E+00 n2 = 7.01049E-05 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: OFF CCL Param: 0	Coefficients: n0 = 2.28259E+00 n1 = 1.59003E+00 n2 = 7.01049E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: PSI CCL Process: OFF CCL Param: 0	Coefficients: n0 = 2.28259E+00 n1 = 1.59003E+00 n2 = 7.01049E-05				
S-0100	SA+YinrPOT_A		STR			
Data Type: UNSIGNED # Bits: 8	Description: SA+Y_INNER_POTENTIOMETER_A Data Range: -83.0:270.00	Channel Type: HL ANALOG MUX Address: 832B Connector-Pin: J10-43				
+Y solar array inner potentiometer position A.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00				

EDF TELEMETRY

S-0101	SA+YinrPOT_B		STR			
Data Type: UNSIGNED # Bits: 8	Description: SA+Y_INNER_POTENTIOMETER_B Data Range: -83.0:270.00	Channel Type: HL ANALOG MUX Address: 8284 Connector-Pin: J9-4				
+Y solar array inner potentiometer position B.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00				
S-0102	SA+YoutPOT_A		STR			
Data Type: UNSIGNED # Bits: 8	Description: SA+Y_OUTER_POTENTIOMETER_A Data Range: -83.0:270.00	Channel Type: HL ANALOG MUX Address: 83AB Connector-Pin: J11-43				
+Y solar array outer potentiometer position A.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00				

EDF TELEMETRY

S-0103	SA+YoutPOT_B		STR			
Data Type: UNSIGNED # Bits: 8	Description: SA+Y_OUTER_POTENTIOMETER_B Data Range: -83.0:270.00	Channel Type: HL ANALOG MUX Address: 8349 Connector-Pin: J10-57				
+Y solar array outer potentiometer position B.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00				
S-0104	SA-YinrPOT_A		STR			
Data Type: UNSIGNED # Bits: 8	Description: SA-Y_INNER_POTENTIOMETER_A Data Range: -83.0:270.00	Channel Type: HL ANALOG MUX Address: 828C Connector-Pin: J9-12				
-Y solar array inner potentiometer position A.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00				

EDF TELEMETRY

S-0105	SA-YinrPOT_B		STR			
Data Type: UNSIGNED # Bits: 8	Description: SA-Y_INNER_POTENTIOMETER_B Data Range: -83.0:270.00	Channel Type: HL ANALOG MUX Address: 8304 Connector-Pin: J10-4				
-Y solar array inner potentiometer position B.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00				
S-0106	SA-YoutPOT_A		STR			
Data Type: UNSIGNED # Bits: 8	Description: SA-Y_OUTER_POTENTIOMETER_A Data Range: -83.0:270.00	Channel Type: HL ANALOG MUX Address: 83AD Connector-Pin: J11-45				
-Y solar array outer potentiometer position A.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00				

EDF TELEMETRY

S-0107	SA-YoutPOT_B		STR			
Data Type: UNSIGNED # Bits: 8	Description: SA-Y_OUTER_POTENTIOMETER_B Data Range: -83.0:270.00	Channel Type: HL ANALOG MUX Address: 8294 Connector-Pin: J9-20				
-Y solar array outer potentiometer position B.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -8.30769E+01 n1 = 1.38462E+00				
S-0110	HGA_POT_A		STR			
Data Type: UNSIGNED # Bits: 8	Description: HGA_POTENTIOMETER_A Data Range: -155.0:198.0	Channel Type: HL ANALOG MUX Address: 834D Connector-Pin: J10-61				
HGA hinge potentiometer position A.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -1.55077E+02 n1 = 1.38462E+00 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.55077E+02 n1 = 1.38462E+00
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.55077E+02 n1 = 1.38462E+00				

EDF TELEMETRY

S-0111	HGA_POT_B		STR			
Data Type: UNSIGNED # Bits: 8	Description: HGA_POTENTIOMETER_B Data Range: -155.0:198.0	Channel Type: HL ANALOG MUX Address: 82C6 Connector-Pin: J9-54				
HGA potentiometer position B.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = -1.55077E+02 n1 = 1.38462E+00 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.55077E+02 n1 = 1.38462E+00
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Deg CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.55077E+02 n1 = 1.38462E+00				
T-0001	CSA_P_HTR		AACS			
Data Type: STATUS # Bits: 1	Description: CSA_PRI_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8105-8 Connector-Pin: J12-101				
CSA primary heater enable status. DTC-12 heater circuit.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				

EDF TELEMETRY

T-0002	CSA_S_HTR		AACS			
Data Type: STATUS # Bits: 1	Description: CSA_SEC_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8105-4 Connector-Pin: J7-101				
CSA secondary heater enable status. DTC-12 heater circuit.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				
T-0003	MHSA_P_HTR		AACS			
Data Type: STATUS # Bits: 1	Description: MHSA_PRI_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8105-3 Connector-Pin: J7-69				
MHSA primary heater enable/disable status. DTC-11 heater circuit.						
Loss of Function: Indicate failure of the primary heater control.						
Recommended Action: Ensure the backup heater control is enabled.						
Impact of Loss of Tlm: No impact.						
Alternate Telemetry: None. Related Measurements: None. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				

EDF TELEMETRY

T-0004	MHSA_S_HTR	AACS
Data Type: STATUS # Bits: 1	Description: MHSA_SEC_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8105-7 Connector-Pin: J12-69
MHSA secondary heater status. DTC-11 heater circuit.		
Loss of Function: Indicate failure of the backup heater control.		
Recommended Action: Ensure the primary heater control is enabled.		
Impact of Loss of Tlm: No impact.		
Alternate Telemetry: None. Related Measurements: None.		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
T-0008	DeltaT_P_HTR	PROP
Data Type: STATUS # Bits: 1	Description: PRI_DELTA_T_HTR_TLM Data Range:	Channel Type: DISCRETE MUX Address: 811D-5 Connector-Pin: J12-29
Propulsion system delta-t primary heater circuit enable status.		
Loss of Function: Has potential to allow NTO/N2H4 explosive reaction in the pressurization manifold.		
Recommended Action: Enable secondary Delta-T heater circuit.		
Impact of Loss of Tlm: Monitor propellant tank and manifold temperature readings to allow engineering decision on backup action.		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF

EDF TELEMETRY

T-0009	DeltaT_S_HTR		PROP																		
Data Type: STATUS # Bits: 1	Description: SEC_DELTA_T_HTR_TLM Data Range:	Channel Type: DISCRETE MUX Address: 810E-1 Connector-Pin: J7-14																			
Propulsion system delta-t secondary heater circuit enable status.																					
Loss of Function: Has potential to allow NTO/N2H4 explosive reaction in the pressurization manifold.																					
Recommended Action: Enable primary Delta-T heater circuit.																					
Impact of Loss of Tlm: Monitor propellant tank and manifold temperature readings to allow engineering decision on backup action.																					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td> <td style="width: 33%;">Conversion Type: N/A</td> <td style="width: 33%;">State Names: 0 = ON 1 = OFF</td> </tr> <tr> <td>Test Type: DN</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Mask:</td> <td></td> <td></td> </tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td></td> </tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td></td> </tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names: 0 = ON 1 = OFF	Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A	State Names: 0 = ON 1 = OFF																			
Test Type: DN																					
Red Alarm Type: OFF																					
Red Alarm Mask:																					
In Hysteresis: 0	CCL Process: OFF																				
Out Hysteresis: 0	CCL Param: 0																				
T-0010	PRS_VC1P_HTR		PROP																		
Data Type: STATUS # Bits: 1	Description: PRESSURANT_VCL1_PRI_HTR_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8114-8 Connector-Pin: J12-116																			
Pressurant valve cluster set 1 primary heater enable status. Thermostat controlled heaters.																					
Loss of Function: Possible below qualification level temperature conditions.																					
Recommended Action: Enable secondary heater circuit.																					
Impact of Loss of Tlm: Monitor temperatures for backup action decisions.																					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td> <td style="width: 33%;">Conversion Type: N/A</td> <td style="width: 33%;">State Names: 0 = ENABLE 1 = DISABLE</td> </tr> <tr> <td>Test Type: DN</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Mask:</td> <td></td> <td></td> </tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td></td> </tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td></td> </tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names: 0 = ENABLE 1 = DISABLE	Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A	State Names: 0 = ENABLE 1 = DISABLE																			
Test Type: DN																					
Red Alarm Type: OFF																					
Red Alarm Mask:																					
In Hysteresis: 0	CCL Process: OFF																				
Out Hysteresis: 0	CCL Param: 0																				

EDF TELEMETRY

T-0011	PRS_VC1S_HTR		PROP			
Data Type: STATUS # Bits: 1	Description: PRESSURANT_VCL1_SEC_HTR_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8114-4 Connector-Pin: J7-116				
Pressurant valve cluster set 1 secondary heater enable status. Thermostat controlled heaters.						
Loss of Function: Possible below qualification level temperature conditions.						
Recommended Action: Enable primary heater circuit.						
Impact of Loss of Tlm: Monitor temperatures for backup action decisions.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				
T-0012	PRS_VC2P_HTR		PROP			
Data Type: STATUS # Bits: 1	Description: PRESSURANT_VCL2_PRI_HTR_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8114-3 Connector-Pin: J7-84				
Pressurant valve cluster set 2 primary heater enable status. Thermostat controlled heaters.						
Loss of Function: Possible below qualification level temperature conditions.						
Recommended Action: Enable secondary heater circuit.						
Impact of Loss of Tlm: Monitor temperatures for backup action decisions.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				

EDF TELEMETRY

T-0013	PRS_VC2S_HTR		PROP			
Data Type: STATUS # Bits: 1	Description: PRESSURANT_VCL2_SEC_HTR_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8114-7 Connector-Pin: J12-84				
Pressurant valve cluster set 2 secondary heater enable status. Thermostat controlled heaters.						
Loss of Function: Possible below qualification level temperature conditions.						
Recommended Action: Enable primary heater circuit.						
Impact of Loss of Tlm: Monitor temperatures for backup action decisions.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				
T-0014	SvlvCL_P_HTR		PROP			
Data Type: STATUS # Bits: 1	Description: SUPPLY_VCL_PRI_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8107-8 Connector-Pin: J12-103				
Supply valve cluster primary heater status. DTC-6 heater circuit.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				

EDF TELEMETRY

T-0015	SvlvCL_S_HTR		PROP								
Data Type: STATUS # Bits: 1	Description: SUPPLY_VCL_SEC_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8107-4 Connector-Pin: J7-103									
Supply valve cluster secondary heater status. DTC-6 heater circuit.											
Loss of Function:											
Recommended Action:											
Impact of Loss of Tlm:											
Alternate Telemetry: Related Measurements: <table border="1" data-bbox="134 834 1499 1066"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A</td><td>State Names: 0 = ENABLE 1 = DISABLE</td><td></td></tr> <tr> <td></td><td>CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A	State Names: 0 = ENABLE 1 = DISABLE			CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A	State Names: 0 = ENABLE 1 = DISABLE									
	CCL Process: OFF CCL Param: 0										
T-0016	PTANKS_P_ENA		PROP								
Data Type: STATUS # Bits: 1	Description: PROP_TANKS_PRI_HTR_ENAB_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8117-2 Connector-Pin: J7-55									
Propellant tanks primary heater enable status.											
Loss of Function:											
Recommended Action:											
Impact of Loss of Tlm:											
Alternate Telemetry: Related Measurements: <table border="1" data-bbox="134 1721 1499 1953"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A</td><td>State Names: 0 = ENABLE1 1 = DISABLE1</td><td></td></tr> <tr> <td></td><td>CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A	State Names: 0 = ENABLE1 1 = DISABLE1			CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A	State Names: 0 = ENABLE1 1 = DISABLE1									
	CCL Process: OFF CCL Param: 0										

EDF TELEMETRY

T-0017	PTANKS_S_ENA		PROP			
Data Type: STATUS # Bits: 1	Description: PROP_TANKS_SEC_HTR_ENAB_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8117-7 Connector-Pin: J12-87				
Propellant tanks secondary heater enable status.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE1 1 = DISABLE1 </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE1 1 = DISABLE1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE1 1 = DISABLE1				
T-0018	PTANKS_P_HTR		PROP			
Data Type: STATUS # Bits: 1	Description: PROP_TANKS_PRI_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8107-3 Connector-Pin: J7-71				
Propellant tanks primary heater on status. DTC-5 heater circuit.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE2 1 = DISABLE2 </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE2 1 = DISABLE2
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE2 1 = DISABLE2				

EDF TELEMETRY

T-0019	PTANKS_S_HTR		PROP			
Data Type: STATUS # Bits: 1	Description: PROP_TANKS_SEC_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8107-7 Connector-Pin: J12-71				
Propellant tanks secondary heater on status. DTC-5 heater circuit.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE2 1 = DISABLE2 </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE2 1 = DISABLE2
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE2 1 = DISABLE2				
T-0020	THR_P_HTR		PROP			
Data Type: STATUS # Bits: 1	Description: THRUSTER_ENCLOSURE_PRI_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8107-1 Connector-Pin: J7-7				
Thruster enclosure primary heater enable status. DTC-4 heater circuit.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				

EDF TELEMETRY

T-0021	THR_S_HTR		PROP			
Data Type: STATUS # Bits: 1	Description: THRUSTER_ENCLOSURE_SEC_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8107-5 Connector-Pin: J12-7				
Thruster enclosure secondary heater enable status. DTC-4 heater circuit.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				
T-0022	ME_P_HTR		PROP			
Data Type: STATUS # Bits: 1	Description: MAIN_ENGINE_PRI_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810E-8 Connector-Pin: J12-110				
Main engine primary heater enable status. DTC-7 heater circuit.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				

EDF TELEMETRY

T-0023	ME_S_HTR		PROP				
Data Type: STATUS # Bits: 1	Description: MAIN_ENGINE_SEC_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810E-4 Connector-Pin: J7-110					
Main engine secondary heater enable status. DTC-7 heater circuit.							
Loss of Function:							
Recommended Action:							
Impact of Loss of Tlm:							
Alternate Telemetry: Related Measurements: <table border="1" data-bbox="134 834 1497 1066"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A CCL Process: OFF CCL Param: 0</td><td>State Names: 0 = ENABLE 1 = DISABLE</td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE					
T-0030	LINEhyzP_ENA		PROP				
Data Type: STATUS # Bits: 1	Description: PROP_LINE_N2H4_PRI_ENAB_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810D-5 Connector-Pin: J12-13					
Loss of Function:							
Recommended Action:							
Impact of Loss of Tlm:							
Alternate Telemetry: Related Measurements: <table border="1" data-bbox="134 1721 1497 1953"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A CCL Process: OFF CCL Param: 0</td><td>State Names: 0 = ENABLE 1 = DISABLE</td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE					

EDF TELEMETRY

T-0031		LINEhyzS_ENA	PROP																		
Data Type: STATUS # Bits: 1	Description: PROP_LINE_N2H4_SEC_ENAB_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 810D-1 Connector-Pin: J7-13																			
Loss of Function:																					
Recommended Action:																					
Impact of Loss of Tlm:																					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td><td style="width: 33%;">Conversion Type: N/A</td><td style="width: 33%;">State Names: 0 = ENABLE 1 = DISABLE</td></tr> <tr> <td>Test Type: DN</td><td></td><td></td></tr> <tr> <td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr> <td>Red Alarm Mask:</td><td></td><td></td></tr> <tr> <td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr> <td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names: 0 = ENABLE 1 = DISABLE	Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A	State Names: 0 = ENABLE 1 = DISABLE																			
Test Type: DN																					
Red Alarm Type: OFF																					
Red Alarm Mask:																					
In Hysteresis: 0	CCL Process: OFF																				
Out Hysteresis: 0	CCL Param: 0																				
T-0032		LINEhyzP_HTR	PROP																		
Data Type: STATUS # Bits: 1	Description: PROP_LINE_N2H4_PRI_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8105-1 Connector-Pin: J7-5																			
Loss of Function:																					
Recommended Action:																					
Impact of Loss of Tlm:																					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td><td style="width: 33%;">Conversion Type: N/A</td><td style="width: 33%;">State Names: 0 = ON 1 = OFF</td></tr> <tr> <td>Test Type: DN</td><td></td><td></td></tr> <tr> <td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr> <td>Red Alarm Mask:</td><td></td><td></td></tr> <tr> <td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr> <td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names: 0 = ON 1 = OFF	Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A	State Names: 0 = ON 1 = OFF																			
Test Type: DN																					
Red Alarm Type: OFF																					
Red Alarm Mask:																					
In Hysteresis: 0	CCL Process: OFF																				
Out Hysteresis: 0	CCL Param: 0																				

EDF TELEMETRY

T-0033		LINEhyzS_HTR	PROP																		
Data Type: STATUS # Bits: 1	Description: PROP_LINE_N2H4_SEC_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8105-5 Connector-Pin: J12-5																			
Loss of Function:																					
Recommended Action:																					
Impact of Loss of Tlm:																					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td><td style="width: 33%;">Conversion Type: N/A</td><td style="width: 33%;">State Names: 0 = ON 1 = OFF</td></tr> <tr> <td>Test Type: DN</td><td></td><td></td></tr> <tr> <td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr> <td>Red Alarm Mask:</td><td></td><td></td></tr> <tr> <td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr> <td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names: 0 = ON 1 = OFF	Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A	State Names: 0 = ON 1 = OFF																			
Test Type: DN																					
Red Alarm Type: OFF																					
Red Alarm Mask:																					
In Hysteresis: 0	CCL Process: OFF																				
Out Hysteresis: 0	CCL Param: 0																				
T-0036		LINEntoP_HTR	PROP																		
Data Type: STATUS # Bits: 1	Description: PROP_LINE_NTO_PRI_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8105-2 Connector-Pin: J7-37																			
Loss of Function:																					
Recommended Action:																					
Impact of Loss of Tlm:																					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td><td style="width: 33%;">Conversion Type: N/A</td><td style="width: 33%;">State Names: 0 = ON 1 = OFF</td></tr> <tr> <td>Test Type: DN</td><td></td><td></td></tr> <tr> <td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr> <td>Red Alarm Mask:</td><td></td><td></td></tr> <tr> <td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr> <td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names: 0 = ON 1 = OFF	Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A	State Names: 0 = ON 1 = OFF																			
Test Type: DN																					
Red Alarm Type: OFF																					
Red Alarm Mask:																					
In Hysteresis: 0	CCL Process: OFF																				
Out Hysteresis: 0	CCL Param: 0																				

EDF TELEMETRY

T-0037	LINEtoS_HTR		PROP			
Data Type: STATUS # Bits: 1	Description: PROP_LINE_NTO_SEC_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8105-6 Connector-Pin: J12-37				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ON 1 = OFF </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF				
T-0040	BAT_P_HTR		PWR			
Data Type: STATUS # Bits: 1	Description: BATTERY_PRI_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8117-8 Connector-Pin: J12-119				
Battery primary heater enable status. DTC-3 heater circuit.						
Loss of Function:						
Recommended Action: No action needed; because the backup heater is automatically on if needed.						
Impact of Loss of Tlm: Loss of battery 1 heater system primary/backup status.						
Alternate Telemetry: None. Related Measurements: None. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = ENABLE 1 = DISABLE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE				

EDF TELEMETRY

T-0041	BAT_S_HTR		PWR
Data Type: STATUS # Bits: 1	Description: BATTERY_SEC_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 8117-4 Connector-Pin: J7-119	
Battery secondary heater enable status. DTC-3 heater circuit.			
Loss of Function:			
Recommended Action: No action needed, because the backup heater is automatically on if needed.			
Impact of Loss of Tlm: Loss of battery 2 heater system primary/backup status.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	
T-0050	ER_HTR		PYLD
Data Type: STATUS # Bits: 1	Description: ER_SENSOR_HTR_PWR Data Range:	Channel Type: DISCRETE MUX Address: 811C-6 Connector-Pin: J12-60	
Indicates if the ER heater is enabled. Non-operating temperatures are maintained by applying power to this line. Application of power at the heater is thermostatically controlled. ER heater is now equipped with an internal thermostat to control ER temperature.			
Loss of Function: Non-operating temperatures of the ER could be lower than flight allowable limits.			
Recommended Action: Turn on the ER (if it is not already on) to provide some power dissipation into the ER. This requires that either side (A or B) of the MAG be powered and the command to power the ER be sent. Call the Payload Engineer, the MAG PI (Mario Acuna), and the ER IM (Dave Curtis).			
Impact of Loss of Tlm: The ER analog temperature telemetry, T-0221 ER_SENSOR_T, must be monitored to establish the status of the ER heater.			
Alternate Telemetry: T-0221 ER_SENSOR_T Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	

EDF TELEMETRY

MAG_SENS_HTR			PYLD
Data Type: STATUS # Bits: 1	Description: MAG_SENSR_HTR_PWR Data Range:	Channel Type: DISCRETE MUX Address: 811C-5 Connector-Pin: J12-28	
Indicates if the MAG sensor heaters are on or off. Non-operating and operating temperatures are maintained with this 28 volt heater line.			
Loss of Function: The MAG Sensors flight allowable temperatures may be exceeded (even if the recommended action is followed).			
Recommended Action: If the MAG Sensor heaters have failed to operate, turn on the MAG (either side A or B) to power the MAG Sensors. Note that they may not dissipate adequate heat to maintain flight allowable temperatures.			
Impact of Loss of Tlm: Loss of status of MAG Sensor heater.			
Alternate Telemetry: T-0023, T-0224			
Related Measurements: Examine the content of the MAG/ER source packets for MAG Sensor temperatures.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF	
T-0052	MOC_BKOT_SW1		PYLD
Data Type: STATUS # Bits: 1	Description: MOC_BAKE_HTR_SWCH1 Data Range:	Channel Type: DISCRETE MUX Address: 811C-8 Connector-Pin: J12-124	
Indicates status of MOC bakeout heater switch 1.			
Loss of Function: MOC bakeout heater is then controlled via command MOC_BAKE_HTR_SW2. Should this switch also fail, the MOC bakeout heater will not be controllable and will be left in its last state.			
Recommended Action: Use bakeout heater switch 2 to control heater.			
Impact of Loss of Tlm: Cannot verify bakeout heater switch 1 status, however, the position can be inferred based on the switch 2 position and MOC temperature TLM.			
Alternate Telemetry: T-0228, T-0230, T-0231			
Related Measurements: S/C current can also indicate MOC bakeout heater function (because of its 52.6 watt load)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = POSITN_A 1 = POSITN_B	

EDF TELEMETRY

T-0053		MOC_BKOT_SW2	PYLD
Data Type: STATUS # Bits: 1	Description: MOC_BAKE_HTR_SWCH2 Data Range:	Channel Type: DISCRETE MUX Address: 811C-4 Connector-Pin: J7-124	
Indicates status of MOC bakeout heater switch 2.			
Loss of Function: MOC bakeout heater is then controlled via command MOC_BAKE_HTR_SW1. Should this switch also fail, the MOC bakeout heater will not be controllable and will be left in its last state. Recommended Action: Use bakeout heater switch 1 to control heater. Impact of Loss of Tlm: Cannot verify bakeout heater switch 2 status, however, the position can be inferred based on the switch 1 position and MOC temperature TLM. Alternate Telemetry: T-0228, T-0230, T-0231 Related Measurements: S/C current can also indicate MOC bakeout heater function (because of its 52.6 watt load)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: ON CCL Param: 0	State Names: 0 = POSITN_A 1 = POSITN_B	
T-0054		MOC_P_HTR	PYLD
Data Type: STATUS # Bits: 1	Description: MOC_PRI_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 811C-7 Connector-Pin: J12-92	
MOC primary (Main) heater on status.			
Loss of Function: Degraded MOC thermal control. Recommended Action: Monitor MOC temperatures. MOC main power and bakeout heaters can be used to add heat if MOC gets too cold. Contact the MOC PI (Mike Malin) and the Payload Engineer. Impact of Loss of Tlm: Cannot verify MOC primary (main) heater status. Alternate Telemetry: T-0227, T-0228, T-0229, T-0230 Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF	

EDF TELEMETRY

T-0055	MOC_S_HTR	PYLD
Data Type: STATUS # Bits: 1	Description: MOC_SEC_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 811C-3 Connector-Pin: J7-92
MOC secondary (WAA auxiliary) heater on status. Note this is now an individually commandable heater. On MO, this heater was slaved to the Primary (Main) heater .		
Loss of Function: Degraded MOC thermal control for the Wide Angle Assembly.		
Recommended Action: Contact the MOC PI (Mike Malin) and the Payload Engineer. MOC main power can be used to add heat if the WAA gets to cold.		
Impact of Loss of Tlm: Cannot verify the heater status with engineering TLM.		
Alternate Telemetry: T-0231 MOC_WAA_T		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF
T-0056	MOLA_HTR	PYLD
Data Type: STATUS # Bits: 1	Description: MOLA_HEATER_STATUS Data Range:	Channel Type: DISCRETE MUX Address: 811C-2 Connector-Pin: J7-60
MOLA heater enable status.		
Loss of Function: Degraded MOLA thermal control.		
Recommended Action: Monitor MOLA temperatures. Call the MOLA PI (Dave Smith) and System Engineer (Jay Smith), and the JPL Payload Engineer. MOLA main power can be used to maintain temperatures, however the lifetime of the laser would have to be traded off against the dangers of exceeding the flight allowable limits.		
Impact of Loss of Tlm: Cannot verify the MOLA engineering TLM heater status.		
Alternate Telemetry: T-0232, T-0233		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF

EDF TELEMETRY

T-0057	TES_HTR		PYLD
Data Type: STATUS # Bits: 1	Description: TES_HEATER_ON/OFF Data Range:	Channel Type: DISCRETE MUX Address: 811C-1 Connector-Pin: J7-28	
TES heater state status.			
Loss of Function: Possible inability to maintain TES flight allowable temperatures.			
Recommended Action: Contact the TES PI (Phil Christensen) and the Payload Engineer. If too cold, can turn TES main power on to maintain temperature.			
Impact of Loss of Tlm: Loss of engineering TLM for the TES heater status.			
Alternate Telemetry: T-0234, T-0235			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF	
T-0062	HGA_BM_P_HTR		STR
Data Type: STATUS # Bits: 1	Description: HGA_BOOM_PRI_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 810D-3 Connector-Pin: J7-77	
HGA boom/cable primary heater on status. Constant on heater circuit.			
Loss of Function: If relay failed on there will be power impact during cruise phase. Heater power are needed during mapping phase. If relay failed off using the backup heater relay.			
Recommended Action: Ensure primary heater backup heater relay is enabled.			
Impact of Loss of Tlm: No impact.			
Alternate Telemetry: None.			
Related Measurements: T-0063 (HGA_BM_S_HTR)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF	

EDF TELEMETRY

T-0063	HGA_BM_S_HTR	STR
Data Type: STATUS # Bits: 1	Description: HGA_BOOM_SEC_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 810D-7 Connector-Pin: J12-77
HGA boom/cable secondary heater on status. Constant on heater circuit.		
Loss of Function: If relay failed on there will be power impact during cruise phase. Heater power are needed during mapping phase. If relay failed off using the primary heater relay.		
Recommended Action: Ensure primary heater relay is enabled.		
Impact of Loss of Tlm: No impact.		
Alternate Telemetry: None. Related Measurements: T-0062 (HGA_BM_P_HTR)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF
T-0064	HGA_HD_P_HTR	STR
Data Type: STATUS # Bits: 1	Description: HGAHINGE_DAMP_PRI_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 810D-6 Connector-Pin: J12-45
HGA hinge damper primary heater enable status. Thermostat controlled heater circuit.		
Loss of Function: Unable to determine the on/off status of the relay		
Recommended Action: Ensure backup heater relay is enabled.		
Impact of Loss of Tlm: No impact.		
Alternate Telemetry: None. Related Measurements: T-0065 (HGA_HD_S_HTR)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE

EDF TELEMETRY

T-0065	HGA_HD_S_HTR		STR
Data Type: STATUS # Bits: 1	Description: HGA_HINGE_DAMP_SEC_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 810D-2 Connector-Pin: J7-45	
HGA hinge damper secondary heater enable status. Thermostat controlled heater circuit.			
Loss of Function: Unable to determine the on/off status of the relay			
Recommended Action: Ensure primary heater relay is enabled.			
Impact of Loss of Tlm: No impact.			
Alternate Telemetry: None. Related Measurements: T-0064 (HGA_HD_P_HTR)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	
T-0070	SA+YGM_P_HTR		STR
Data Type: STATUS # Bits: 1	Description: SA+Y_GMBL_PRI_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8116-6 Connector-Pin: J12-54	
SA +Y gimbal primary heater enable status. DTC-13 heater circuit.			
Loss of Function: Loss of redundancy.			
Recommended Action: May use backup heater.			
Impact of Loss of Tlm: No impact.			
Alternate Telemetry: None. Related Measurements: Check backup heater telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	

EDF TELEMETRY

T-0071	SA+YGM_S_HTR		STR
Data Type: STATUS # Bits: 1	Description: SA+Y_GMBL_SEC_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8116-2 Connector-Pin: J7-54	
SA +Y gimbal secondary heater enable status. DTC-13 heater circuit.			
Loss of Function: Loss of redundancy.			
Recommended Action: May use primary heater.			
Impact of Loss of Tlm: No impact.			
Alternate Telemetry: None. Related Measurements: Check primary heater telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	
T-0072	SA-YGM_P_HTR		STR
Data Type: STATUS # Bits: 1	Description: SA-Y_GMBL_PRI_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8116-1 Connector-Pin: J7-22	
SA -Y gimbal primary heater enable status. DTC-10 heater circuit.			
Loss of Function: Cannot verify status of primary heater			
Recommended Action: Command backup heater.			
Impact of Loss of Tlm: No impact.			
Alternate Telemetry: None. Related Measurements: Check backup heater telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	

EDF TELEMETRY

T-0073	SA-YGM_S_HTR		STR
Data Type: STATUS # Bits: 1	Description: SA-Y_GMBL_SEC_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8116-5 Connector-Pin: J12-22	
SA -Y gimbal secondary heater enable status. DTC-10 heater circuit.			
Loss of Function: Cannot verify status of backup heater			
Recommended Action: Command primary heater.			
Impact of Loss of Tlm: No impact.			
Alternate Telemetry: None. Related Measurements: Check primary heater telemetry.			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	
T-0080	EM-X1_P_HTR		THRM
Data Type: STATUS # Bits: 1	Description: EM-X1_PANEL_PRI_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8115-3 Connector-Pin: J7-85	
Equipment module -X1 panel primary heater enable status. DTC-1 heater circuit.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: None. Related Measurements: T-0081 (EM-X1_S_HTR)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	

EDF TELEMETRY

T-0081	EM-X1_S_HTR		THRM
Data Type: STATUS # Bits: 1	Description: EM-X1_PANEL_SEC_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8115-7 Connector-Pin: J12-85	
Equipment module -X1 panel secondary heater enable status. DTC-1 heater circuit.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: None. Related Measurements: T-0080 (EM-X1_P_HTR)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	
T-0082	EM-X2_P_HTR		THRM
Data Type: STATUS # Bits: 1	Description: EM-X2_PANEL_PRI_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8115-8 Connector-Pin: J12-117	
Equipment module -X2 panel primary heater enable status. DTC-16 heater circuit.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: None. Related Measurements: T-0083 (EM-X2_S_HTR)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	

EDF TELEMETRY

T-0083	EM-X2_S_HTR		THRM
Data Type: STATUS # Bits: 1	Description: EM-X2_PANEL_SEC_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8115-4 Connector-Pin: J7-117	
Equipment module -X2 panel secondary heater enable status. DTC-16 heater circuit.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: None. Related Measurements: T-0082 (EM-X2_P_HTR)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	
T-0084	EM+Y_P_HTR		THRM
Data Type: STATUS # Bits: 1	Description: EM+Y_PANEL_PRI_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8115-6 Connector-Pin: J12-53	
Equipment module +Y panel primary heater enable status. DTC-14 heater circuit.			
Loss of Function: Unable to determine the on/off status of the relay			
Recommended Action: Ensure that the backup relay for HGA GDE is enabled.			
Impact of Loss of Tlm: No impact.			
Alternate Telemetry: None. Related Measurements: T-0009 (EM+Y_S_HTR)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	

EDF TELEMETRY

T-0085	EM+Y_S_HTR		THRM
Data Type: STATUS # Bits: 1	Description: EM+Y_PANEL_SEC_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 8115-2 Connector-Pin: J7-53	
Equipment module +Y panel secondary heater enable status. DTC-14 heater circuit.			
Loss of Function: Unable to determine the on/off status of the relay.			
Recommended Action: Ensure that the primary relay for HGA GDE is enabled.			
Impact of Loss of Tlm: No impact.			
Alternate Telemetry: None. Related Measurements: T-0010 (EM+Y_P_HTR)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	
T-0088	TWTGIM_P_HTR		THRM
Data Type: STATUS # Bits: 1	Description: TWTA_ENCL_GMBL_PRI_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 810D-8 Connector-Pin: J12-109	
TWTA Enclosure and HGA gimbal primary heater enable status. DTC-8 heater circuit.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: None. Related Measurements: T-0089 (TWTGIM_S_HTR)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	

EDF TELEMETRY

T-0089	TWTGIM_S_HTR		THRM
Data Type: STATUS # Bits: 1	Description: TWTA_ENCL_GMBL_SEC_HTR_STAT Data Range:	Channel Type: DISCRETE MUX Address: 810D-4 Connector-Pin: J7-109	
TWTA Enclosure and HGA gimbal secondary heater enable status. DTC-8 heater circuit.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: None. Related Measurements: T-0088 (TWTGIM_P_HTR)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ENABLE 1 = DISABLE	
T-0100	CSA_T		AACS
Data Type: UNSIGNED # Bits: 8	Description: CSA_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 82D6 Connector-Pin: J9-70	
Monitor the temperature of CSA.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09	

EDF TELEMETRY

T-0101	IMU_BLOCK_T		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_BLOCK_TEMPERATURE Data Range: 33.643:68.955	Channel Type: HL ANALOG MUX Address: 829B Connector-Pin: J9-27	
Provides measurement of IMU block temperature.			
Loss of Function: If heater fails, IMU temperature will deviate from nominal.			
Recommended Action: Issue command to alternate TCA; if failure verified.			
Impact of Loss of Tlm: If the IMU temperature is not controlled very well, the gyro bias will drift.			
Alternate Telemetry: None. Related Measurements: Monitor estimated gyro biases to ensure IMU temperature is controlled.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 3.36426E+01 n1 = 1.83512E-01 n2 = -1.76600E-04	
T-0102	IMU_HSE_T		AACS
Data Type: UNSIGNED # Bits: 8	Description: IMU_HOUSING_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 83D8 Connector-Pin: J11-72	
Provides status of IMU housing temperature.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09	

EDF TELEMETRY

T-0103	MHSA_S1_T	AACS																					
Data Type: UNSIGNED # Bits: 8	Description: MHSA1_TEMPERATURE Data Range: -53.978:92.925	Channel Type: HL ANALOG MUX Address: 8288 Connector-Pin: J9-8																					
Monitoring the temperature of MHSA Side 1.																							
Loss of Function:																							
Recommended Action:																							
Impact of Loss of Tlm:																							
Alternate Telemetry: Related Measurements: <table border="1"> <tr> <td>Time Type: ERT</td> <td>Conversion Type: POLY</td> <td>Coefficients: n0 = 9.29253E+01</td> </tr> <tr> <td>Test Type: EU</td> <td>EU Units: DEG_C</td> <td>n1 = -1.01621E+00</td> </tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td>n2 = 4.58901E-03</td> </tr> <tr> <td>Red Alarm Lo:</td> <td></td> <td>n3 = -1.12277E-05</td> </tr> <tr> <td>Red Alarm Hi:</td> <td></td> <td></td> </tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td></td> </tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td></td> </tr> </table>			Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 9.29253E+01	Test Type: EU	EU Units: DEG_C	n1 = -1.01621E+00	Red Alarm Type: OFF		n2 = 4.58901E-03	Red Alarm Lo:		n3 = -1.12277E-05	Red Alarm Hi:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 9.29253E+01																					
Test Type: EU	EU Units: DEG_C	n1 = -1.01621E+00																					
Red Alarm Type: OFF		n2 = 4.58901E-03																					
Red Alarm Lo:		n3 = -1.12277E-05																					
Red Alarm Hi:																							
In Hysteresis: 0	CCL Process: OFF																						
Out Hysteresis: 0	CCL Param: 0																						
T-0104	MHSA_S2_T	AACS																					
Data Type: UNSIGNED # Bits: 8	Description: MHSA2_TEMPERATURE Data Range: -42.328:89.508	Channel Type: HL ANALOG MUX Address: 839F Connector-Pin: J11-31																					
Monitoring the temperature of MHSA Side 2.																							
Loss of Function:																							
Recommended Action:																							
Impact of Loss of Tlm:																							
Alternate Telemetry: Related Measurements: <table border="1"> <tr> <td>Time Type: ERT</td> <td>Conversion Type: POLY</td> <td>Coefficients: n0 = 8.95084E+01</td> </tr> <tr> <td>Test Type: EU</td> <td>EU Units: DEG_C</td> <td>n1 = -1.00854E+00</td> </tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td>n2 = 4.61968E-03</td> </tr> <tr> <td>Red Alarm Lo:</td> <td></td> <td>n3 = -1.05573E-05</td> </tr> <tr> <td>Red Alarm Hi:</td> <td></td> <td></td> </tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td></td> </tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td></td> </tr> </table>			Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 8.95084E+01	Test Type: EU	EU Units: DEG_C	n1 = -1.00854E+00	Red Alarm Type: OFF		n2 = 4.61968E-03	Red Alarm Lo:		n3 = -1.05573E-05	Red Alarm Hi:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 8.95084E+01																					
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Red Alarm Type: OFF		n2 = 4.61968E-03																					
Red Alarm Lo:		n3 = -1.05573E-05																					
Red Alarm Hi:																							
In Hysteresis: 0	CCL Process: OFF																						
Out Hysteresis: 0	CCL Param: 0																						

EDF TELEMETRY

T-0105	MHSA_HSE_T	AACS			
Data Type: UNSIGNED # Bits: 8	Description: MHSA_HOUSING_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8250 Connector-Pin: J8-49			
MHSA external temperature.					
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09			
T-0106	RWA_X_BRG_T	AACS			
Data Type: UNSIGNED # Bits: 8	Description: RWA_X_BEARING_TEMPERATURE Data Range: -49.045:60.187	Channel Type: HL ANALOG MUX Address: 829F Connector-Pin: J9-31			
Provides indication of X RWA bearing temperature.					
Loss of Function: Flight software automatically switches to redundant RWA configuration.					
Recommended Action: Switch to redundant RWA configuration if High critical exceeded.					
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AAC.					
Alternate Telemetry: None. Related Measurements: F-0765 (RWA_X_SPDMAG); A-0170 (RWA_X_MTR_I)					
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -4.90452E+01 n1 = 6.06085E-01 n2 = -1.62392E-03 n3 = -5.29262E-07 n4 = 1.63310E-08			

EDF TELEMETRY

T-0107	RWA_Y_BRG_T	AACS
Data Type: UNSIGNED # Bits: 8	Description: RWA_Y_BEARING_TEMPERATURE Data Range: -49.045:60.187	Channel Type: HL ANALOG MUX Address: 8318 Connector-Pin: J10-24
Provides indication of Y RWA bearing temperature.		
Loss of Function: Flight software automatically switches to redundant RWA configuration.		
Recommended Action: Switch to redundant RWA configuration if High critical exceeded.		
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACs.		
Alternate Telemetry: None. Related Measurements: F-0775 (RWA_Y_SPDMAG); A-0171 (RWA_Y_MTR_I)		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -4.90452E+01 n1 = 6.06085E-01 n2 = -1.62392E-03 n3 = -5.29262E-07 n4 = 1.63310E-08
T-0108	RWA_Z_BRG_T	AACS
Data Type: UNSIGNED # Bits: 8	Description: RWA_Z_BEARING_TEMPERATURE Data Range: -49.045:60.187	Channel Type: HL ANALOG MUX Address: 83AF Connector-Pin: J11-47
Provides indication of Z RWA bearing temperature.		
Loss of Function: Flight software automatically switches to redundant RWA configuration.		
Recommended Action: Switch to redundant RWA configuration if High critical exceeded.		
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACs.		
Alternate Telemetry: None. Related Measurements: F-0785 (RWA_Z_SPDMAG); A-0172 (RWA_Z_MTR_I)		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -4.90452E+01 n1 = 6.06085E-01 n2 = -1.62392E-03 n3 = -5.29262E-07 n4 = 1.63310E-08

EDF TELEMETRY

T-0109	RWA_S_BRG_T	AACS
Data Type: UNSIGNED # Bits: 8	Description: RWA_S_BEARING_TEMPERATURE Data Range: -49.045:60.187	Channel Type: HL ANALOG MUX Address: 82AE Connector-Pin: J9-46
Provides indication of Skew RWA bearing temperature.		
Loss of Function: Flight software automatically switches to redundant RWA configuration.		
Recommended Action: Switch to X, Y, and Z RWA configuration if High critical limit exceeded.		
Impact of Loss of Tlm: Loss of monitoring capability only. No impact on AACS.		
Alternate Telemetry: None. Related Measurements: F-0795 (RWA_SPDMAG); A-0173 (RWA_S_MTR_I)		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -4.90452E+01 n1 = 6.06085E-01 n2 = -1.62392E-03 n3 = -5.29262E-07 n4 = 1.63310E-08
T-0114	CIU_T	CDH
Data Type: UNSIGNED # Bits: 8	Description: CIU_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 8360 Connector-Pin: J10-80
Provides status of CIU temperature.		
Loss of Function: Possible loss of CIU will result in loss of spacecraft.		
Recommended Action: Monitor CIU inputs/outputs for thermally-related abnormalities.		
Impact of Loss of Tlm: Degraded knowledge of CIU temperature.		
Alternate Telemetry: None. Related Measurements: N/A.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11

EDF TELEMETRY

T-0115	CIX_T		CDH
Data Type: UNSIGNED # Bits: 8	Description: CIX_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 826F Connector-Pin: J8-80	
Provides status of CIX temperature.			
Loss of Function: Possible loss of CIX will affect communication with SCPs. May lose spacecraft.			
Recommended Action: Monitor CIX inputs/outputs for thermally-related abnormalities.			
Impact of Loss of Tlm: Degraded knowledge of CIX temperature.			
Alternate Telemetry: None. Related Measurements: N/A.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11	
T-0116	EDF_BOX_T		CDH
Data Type: UNSIGNED # Bits: 8	Description: EDF_BOX_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 826D Connector-Pin: J8-78	
Monitors EDF box temperature.			
Loss of Function: Possible loss of EDF box function and telemetry.			
Recommended Action: Monitor EDF inputs/outputs for thermally-related degradations.			
Impact of Loss of Tlm: Degraded knowledge of EDF status.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11	

EDF TELEMETRY

T-0117	GDE_HGA_T		CDH			
Data Type: UNSIGNED # Bits: 8	Description: HGA_GDE_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 827B Connector-Pin: J8-92				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0118	GDE_SA1_T		CDH			
Data Type: UNSIGNED # Bits: 8	Description: SA1_GDE_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 82E1 Connector-Pin: J9-81				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				

EDF TELEMETRY

T-0119	GDE_SA2_T		CDH			
Data Type: UNSIGNED # Bits: 8	Description: SA2_GDE_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 8269 Connector-Pin: J8-74				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0120	PDS_BOX_T		CDH			
Data Type: UNSIGNED # Bits: 8	Description: PDS_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8256 Connector-Pin: J8-55				
PDS external box temperature.						
Loss of Function: Does not apply						
Recommended Action: Notify payload and PDS subsystem engineers.						
Impact of Loss of Tlm: No knowledge of PDS temperature.						
Alternate Telemetry: PDS source packets when the PDS is on. Related Measurements: Check nadir panel temperature telemetry						
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0121	RXO_PR_OVN_T		CDH
Data Type: UNSIGNED # Bits: 8	Description: RXO_PRI_OVEN_TEMPERATURE Data Range: -43.171 : 140.598	Channel Type: HL ANALOG MUX Address: 8316 Connector-Pin: J10-22	
Provides RXO primary oven temperature.			
Loss of Function: Loss of oscillator heater may lead to loss of primary oscillator side.			
Recommended Action: Switch to backup side.			
Impact of Loss of Tlm: No knowledge of RXO oven temp.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.40598E+02 n1 = -1.28885E+00 n2 = 7.19055E-03 n3 = -1.94603E-05	
T-0122	RXO_BU_OVN_T		CDH
Data Type: UNSIGNED # Bits: 8	Description: RXO_BU_OVEN_TEMPERATURE Data Range: -43.171 : 140.598	Channel Type: HL ANALOG MUX Address: 829E Connector-Pin: J9-30	
Provides RXO Backup Oven Temperature.			
Loss of Function: Loss of oscillator heater may lead to loss of backup oscillator side.			
Recommended Action: Switch to primary side.			
Impact of Loss of Tlm: No knowledge of RXO oven temp.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.40598E+02 n1 = -1.28885E+00 n2 = 7.19055E-03 n3 = -1.94603E-05	

EDF TELEMETRY

T-0123	RXO_BOX_T		CDH			
Data Type: UNSIGNED # Bits: 8	Description: RXO_BOX_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 8257 Connector-Pin: J8-56				
RXO external temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0124	SCP1_INTRN_T		CDH			
Data Type: UNSIGNED # Bits: 8	Description: SCP1_INTERNAL_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 82DA Connector-Pin: J9-74				
Monitors internal SCP1 temperature.						
Loss of Function: Possible loss of SCP 1.						
Recommended Action: Switch control to SCP 2.						
Impact of Loss of Tlm: Degraded knowledge of SCP 1 status.						
Alternate Telemetry: None. Related Measurements: None. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				

EDF TELEMETRY

T-0125	SCP2_INTRN_T		CDH
Data Type: UNSIGNED # Bits: 8	Description: SCP2_INTERNAL_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 83EB Connector-Pin: J11-91	
Monitor Internal SCP2 Temperature.			
Loss of Function: Possible loss of SCP 2.			
Recommended Action: Switch control to SCP 1.			
Impact of Loss of Tlm: Degraded knowledge of SCP 2 status.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11	
T-0126	SSR_1A_T		CDH
Data Type: UNSIGNED # Bits: 8	Description: SSR_1A_TEMPERATURE Data Range: -26.651:95.350	Channel Type: HL ANALOG MUX Address: 838F Connector-Pin: J11-15	
Solid State Recorder 1A temperature.			
Loss of Function: Possible loss of SSR_1A.			
Recommended Action: Monitor SSR 1A inputs and outputs.			
Impact of Loss of Tlm: Degraded knowledge of SSR 1A.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11	

EDF TELEMETRY

T-0127	SSR_1B_T		CDH
Data Type: UNSIGNED # Bits: 8	Description: SSR_1B_TEMPERATURE Data Range: -26.651:95.350	Channel Type: HL ANALOG MUX Address: 824A Connector-Pin: J8-43	
Solid State Recorder 1B temperature.			
Loss of Function: Possible loss of SSR_1B.			
Recommended Action: Monitor SSR 1B inputs and outputs.			
Impact of Loss of Tlm: Degraded knowledge of SSR 1B.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11	
T-0128	SSR_2A_T		CDH
Data Type: UNSIGNED # Bits: 8	Description: SSR_2A_TEMPERATURE Data Range: -26.651:95.350	Channel Type: HL ANALOG MUX Address: 8326 Connector-Pin: J10-38	
Solid State Recorder 2A temperature.			
Loss of Function: Possible loss of SSR_2A.			
Recommended Action: Monitor SSR 2A inputs and outputs.			
Impact of Loss of Tlm: Degraded knowledge of SSR 2A.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11	

EDF TELEMETRY

T-0129	SSR_2B_T		CDH
Data Type: UNSIGNED # Bits: 8	Description: SSR_2B_TEMPERATURE Data Range: -26.651:95.350	Channel Type: HL ANALOG MUX Address: 8281 Connector-Pin: J9-1	
Solid State Recorder 2B temperature.			
Loss of Function: Possible loss of SSR_2B.			
Recommended Action: Monitor SSR 2B inputs and outputs.			
Impact of Loss of Tlm: Degraded knowledge of SSR 2B.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11	
T-0130	XSU_INTRN_T		CDH
Data Type: UNSIGNED # Bits: 8	Description: XSU_INTERNAL_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 83D9 Connector-Pin: J11-73	
Monitors internal temperature of XSU.			
Loss of Function: Possible loss of XSU.			
Recommended Action: Monitor XSU inputs/outputs for thermally-related degradations.			
Impact of Loss of Tlm: Degraded knowledge of XSU status.			
Alternate Telemetry: None. Related Measurements: None.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11	

EDF TELEMETRY

T-0131	THR_01_VLV_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_01_VALVE_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8361 Connector-Pin: J10-81				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0132	THR_02_VLV_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_02_VALVE_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 82DD Connector-Pin: J9-77				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0133	THR_03_VLV_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_03_VALVE_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8264 Connector-Pin: J8-69				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0134	THR_04_VLV_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_04_VALVE_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8369 Connector-Pin: J10-89				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0135	THR_05_VLV_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_05_VALVE_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 82E5 Connector-Pin: J9-85				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0136	THR_06_VLV_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_06_VALVE_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 825B Connector-Pin: J8-60				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0137	THR_07_VLV_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_07_VALVE_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 836D Connector-Pin: J10-93				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0138	THR_08_VLV_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_08_VALVE_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8253 Connector-Pin: J8-52				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0139	THR_09_VLV_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_09_VALVE_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 82E9 Connector-Pin: J9-89				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0140	THR_10_VLV_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_10_VALVE_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 82D1 Connector-Pin: J9-65				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0141	THR_11_VLV_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_11_VALVE_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8261 Connector-Pin: J8-66				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0142	THR_12_VLV_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_12_VALVE_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8352 Connector-Pin: J10-66				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0143	THR_01_CB_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_01_CATBED_TEMPERATURE Data Range: 0417:750.880	Channel Type: LL ANALOG MUX Address: 8200 Connector-Pin: J8-1				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11				
T-0144	THR_02_CB_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_02_CATBED_TEMPERATURE Data Range: 0417:750.880	Channel Type: LL ANALOG MUX Address: 8209 Connector-Pin: J8-10				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11				

EDF TELEMETRY

T-0145	THR_03_CB_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_03_CATBED_TEMPERATURE Data Range: 0417:750.880	Channel Type: LL ANALOG MUX Address: 8212 Connector-Pin: J8-19				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11				
T-0146	THR_04_CB_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_04_CATBED_TEMPERATURE Data Range: 0417:750.880	Channel Type: LL ANALOG MUX Address: 821B Connector-Pin: J8-28				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11				

EDF TELEMETRY

T-0147	THR_05_CB_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_05_CATBED_TEMPERATURE Data Range: 0417:750.880	Channel Type: LL ANALOG MUX Address: 8201 Connector-Pin: J8-2				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11				
T-0148	THR_06_CB_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_06_CATBED_TEMPERATURE Data Range: 0417:750.880	Channel Type: LL ANALOG MUX Address: 820A Connector-Pin: J8-11				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11				

EDF TELEMETRY

T-0149	THR_07_CB_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_07_CATBED_TEMPERATURE Data Range: 0417:750.880	Channel Type: LL ANALOG MUX Address: 8213 Connector-Pin: J8-20				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11				
T-0150	THR_08_CB_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_08_CATBED_TEMPERATURE Data Range: 0417:750.880	Channel Type: LL ANALOG MUX Address: 821C Connector-Pin: J8-29				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11				

EDF TELEMETRY

T-0151	THR_09_CB_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_09_CATBED_TEMPERATURE Data Range: 0417:750.880	Channel Type: LL ANALOG MUX Address: 8202 Connector-Pin: J8-3				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11				
T-0152	THR_10_CB_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_10_CATBED_TEMPERATURE Data Range: 0417:750.880	Channel Type: LL ANALOG MUX Address: 820B Connector-Pin: J8-12				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11				

EDF TELEMETRY

T-0153	THR_11_CB_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_11_CATBED_TEMPERATURE Data Range: 0417:750.880	Channel Type: LL ANALOG MUX Address: 8214 Connector-Pin: J8-21				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11				
T-0154	THR_12_CB_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_12_CATBED_TEMPERATURE Data Range: 0417:750.880	Channel Type: LL ANALOG MUX Address: 821D Connector-Pin: J8-30				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.17250E-01 n1 = 2.93552E+00 n2 = 2.05528E-03 n3 = -1.91282E-05 n4 = 5.53226E-08 n5 = -4.49694E-11				

EDF TELEMETRY

T-0155	THR_CLUS_1_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_CLUSTER_1_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 8277 Connector-Pin: J8-88				
Thruster cluster 1 temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0156	THR_CLUS_2_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_CLUSTER_2_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 82D4 Connector-Pin: J9-68				
Thruster cluster 2 temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				

EDF TELEMETRY

T-0157	THR_CLUS_3_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_CLUSTER_3_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 835C Connector-Pin: J10-76				
Thruster cluster 3 temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0158	THR_CLUS_4_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTER_CLUSTER_4_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 83E0 Connector-Pin: J11-80				
Thruster cluster 4 temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				

EDF TELEMETRY

T-0159	ME_VALVE_T1		PROP			
Data Type: UNSIGNED # Bits: 8	Description: MAIN_ENGINE_VALVE_TEMP_1 Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 8279 Connector-Pin: J8-90				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0161	ME_FLANGE_T1		PROP			
Data Type: UNSIGNED # Bits: 8	Description: MAIN_ENGINE_FLANGE_TEMP_1 Data Range: -39.371:191.319	Channel Type: PASSIVE MUX Address: 82EB Connector-Pin: J9-91				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.91319E+02 n1 = -3.35981E+00 n2 = 4.74633E-02 n3 = -3.83638E-04 n4 = 1.51929E-06 n5 = -2.33994E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.91319E+02 n1 = -3.35981E+00 n2 = 4.74633E-02 n3 = -3.83638E-04 n4 = 1.51929E-06 n5 = -2.33994E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.91319E+02 n1 = -3.35981E+00 n2 = 4.74633E-02 n3 = -3.83638E-04 n4 = 1.51929E-06 n5 = -2.33994E-09				

EDF TELEMETRY

T-0162	ME_FLANGE_T2		PROP				
Data Type: UNSIGNED # Bits: 8	Description: MAIN_ENGINE_FLANGE_TEMP_2 Data Range: -39371:191.319	Channel Type: PASSIVE MUX Address: 826E Connector-Pin: J8-79					
Loss of Function:							
Recommended Action:							
Impact of Loss of Tlm:							
Alternate Telemetry: Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0</td><td>Coefficients: n0 = 1.91319E+02 n1 = -3.35981E+00 n2 = 4.74633E-02 n3 = -3.83638E-04 n4 = 1.51929E-06 n5 = -2.33994E-09</td><td></td></tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.91319E+02 n1 = -3.35981E+00 n2 = 4.74633E-02 n3 = -3.83638E-04 n4 = 1.51929E-06 n5 = -2.33994E-09	
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.91319E+02 n1 = -3.35981E+00 n2 = 4.74633E-02 n3 = -3.83638E-04 n4 = 1.51929E-06 n5 = -2.33994E-09					
T-0164	PRES_CNTL1_T		PROP				
Data Type: UNSIGNED # Bits: 8	Description: PRESSURANT_CNTL1_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 836F Connector-Pin: J10-95					
Loss of Function:							
Recommended Action:							
Impact of Loss of Tlm:							
Alternate Telemetry: Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0</td><td>Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11</td><td></td></tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11	
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11					

EDF TELEMETRY

T-0165	PRES_CNTL2_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: PRESSURANT_CNTL2_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 83E2 Connector-Pin: J11-82				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0166	PYRO_VGRP1_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: PYRO_VALVE_GROUP1_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 836B Connector-Pin: J10-91				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0167	PYRO_VGRP2_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: PYRO_VALVE_GROUP2_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 83E3 Connector-Pin: J11-83				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0168	SUP_V_CLS1_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: SUPPLY_VALVE_CLUSTER1_TEMP Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 82D0 Connector-Pin: J9-64				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0169	SUP_V_CLS2_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: SUPPLY_VALVE_CLUSTER2_TEMP Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 835D Connector-Pin: J10-77				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0170	SUP_V_CLS3_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: SUPPLY_VALVE_CLUSTER3_TEMP Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 83EE Connector-Pin: J11-94				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0171	SUP_V_CLS4_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: SUPPLY_VALVE_CLUSTER4_TEMP Data Range: -48.443 : 155.151	Channel Type: PASSIVE MUX Address: 8263 Connector-Pin: J8-68				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0172	VALV_GRP1_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: VALVE_GROUP1_TEMPERATURE Data Range: -26.651 : 95.350	Channel Type: PASSIVE MUX Address: 83D2 Connector-Pin: J11-66				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				

EDF TELEMETRY

T-0173	VALV_GRP2_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: VALVE_GROUP2_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 836C Connector-Pin: J10-92				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0174	VALV_GRP3_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: VALVE_GROUP3_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 82EE Connector-Pin: J9-94				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				

EDF TELEMETRY

T-0175	VALV_GRP4_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: VALVE_GROUP4_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 8278 Connector-Pin: J8-89				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0176	GHe_TANK_T1		PROP			
Data Type: UNSIGNED # Bits: 8	Description: GHe_TANK_TEMPERATURE_1 Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 8272 Connector-Pin: J8-83				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				

EDF TELEMETRY

T-0177	GHe_TANK_T2		PROP			
Data Type: UNSIGNED # Bits: 8	Description: GHe_TANK_TEMPERATURE_2 Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 83E1 Connector-Pin: J11-81				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0178	NTO_TANK_T1		PROP			
Data Type: UNSIGNED # Bits: 8	Description: NTO_TANK_TEMPERATURE_1 Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 835B Connector-Pin: J10-75				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				

EDF TELEMETRY

T-0179	NTO_TANK_T2		PROP			
Data Type: UNSIGNED # Bits: 8	Description: NTO_TANK_TEMPERATURE_2 Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 8271 Connector-Pin: J8-82				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0180	N2H4_TNK1_T1		PROP			
Data Type: UNSIGNED # Bits: 8	Description: N2H4_TANK1_TEMPERATURE_1 Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 83EC Connector-Pin: J11-92				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				

EDF TELEMETRY

T-0181	N2H4_TNK1_T2		PROP			
Data Type: UNSIGNED # Bits: 8	Description: N2H4_TANK1_TEMPERATURE_2 Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 82E4 Connector-Pin: J9-84				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0182	N2H4_TNK2_T1		PROP			
Data Type: UNSIGNED # Bits: 8	Description: N2H4_TANK2_TEMPERATURE_1 Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 827A Connector-Pin: J8-91				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				

EDF TELEMETRY

T-0183	N2H4_TNK2_T2		PROP			
Data Type: UNSIGNED # Bits: 8	Description: N2H4_TANK2_TEMPERATURE_2 Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 8354 Connector-Pin: J10-68				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0184	MEV1_LINE_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: MAIN_ENGINE_VALVE1_LINE_TEMP Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 83DF Connector-Pin: J11-79				
Main Engine Valve inlet line temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0185	MEV2_LINE_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: MAIN_ENGINE_VALVE2_LINE_TEMP Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 83E6 Connector-Pin: J11-86				
Main Engine Valve inlet line temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0186	NTOinLINE_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: NTO_INLET_LINE_TEMP Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 82E3 Connector-Pin: J9-83				
NTO propellant tank inlet line temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0187	N2H4inLINE_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: N2H4_INLET_LINE_TEMP Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 82E0 Connector-Pin: J9-80				
Hydrazine propellant tank inlet line temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0188	PCAlpLINE_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: PCA_LOW_PRES_LINE_TEMP Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 83DE Connector-Pin: J11-78				
PCA low pressure side line temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0189	PCAhplINE_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: PCA_HIGH_PRES_LINE_TEMP Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8259 Connector-Pin: J8-58				
PCA high pressure side line temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0190	GHesupLINE_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: GHe_SUPPLY_LINE_TEMP Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 82D2 Connector-Pin: J9-66				
GHe supply line temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0191	THRoddLINE_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTERS_ODD_LINE_TEMP Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8273 Connector-Pin: J8-84				
Odd thruster inlet line temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0192	THRevnLINE_T		PROP			
Data Type: UNSIGNED # Bits: 8	Description: THRUSTERS_EVEN_LINE_TEMP Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8260 Connector-Pin: J8-65				
Even thruster inlet line temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0196	BCA_TRSTR1_T		PWR			
Data Type: UNSIGNED # Bits: 8	Description: BRC1_TRANSISTOR_Q1_TEMPERATURE Data Range: -37.910:282.748	Channel Type: PASSIVE MUX Address: 83D6 Connector-Pin: J11-70				
BCA transistor 1 temperature.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 2.82748E+02 n1 = -6.38254E+00 n2 = 9.71241E-02 n3 = -7.72028E-04 n4 = 2.95395E-06 n5 = -4.35664E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 2.82748E+02 n1 = -6.38254E+00 n2 = 9.71241E-02 n3 = -7.72028E-04 n4 = 2.95395E-06 n5 = -4.35664E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 2.82748E+02 n1 = -6.38254E+00 n2 = 9.71241E-02 n3 = -7.72028E-04 n4 = 2.95395E-06 n5 = -4.35664E-09				
T-0197	BCA_TRSTR2_T		PWR			
Data Type: UNSIGNED # Bits: 8	Description: BRC1_TRANSISTOR_Q3_TEMPERATURE Data Range: -37.910:282.748	Channel Type: PASSIVE MUX Address: 83DA Connector-Pin: J11-74				
BCA transistor 2 temperature.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 2.82748E+02 n1 = -6.38254E+00 n2 = 9.71241E-02 n3 = -7.72028E-04 n4 = 2.95395E-06 n5 = -4.35664E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 2.82748E+02 n1 = -6.38254E+00 n2 = 9.71241E-02 n3 = -7.72028E-04 n4 = 2.95395E-06 n5 = -4.35664E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 2.82748E+02 n1 = -6.38254E+00 n2 = 9.71241E-02 n3 = -7.72028E-04 n4 = 2.95395E-06 n5 = -4.35664E-09				

EDF TELEMETRY

T-0198	BCA_TRSTR3_T		PWR			
Data Type: UNSIGNED # Bits: 8	Description: BRC2_TRANSISTOR_Q1_TEMPERATURE Data Range: -37.910:282.748	Channel Type: PASSIVE MUX Address: 82E8 Connector-Pin: J9-88				
BCA transistor 3 temperature.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 2.82748E+02 n1 = -6.38254E+00 n2 = 9.71241E-02 n3 = -7.72028E-04 n4 = 2.95395E-06 n5 = -4.35664E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 2.82748E+02 n1 = -6.38254E+00 n2 = 9.71241E-02 n3 = -7.72028E-04 n4 = 2.95395E-06 n5 = -4.35664E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 2.82748E+02 n1 = -6.38254E+00 n2 = 9.71241E-02 n3 = -7.72028E-04 n4 = 2.95395E-06 n5 = -4.35664E-09				
T-0199	BCA_TRSTR4_T		PWR			
Data Type: UNSIGNED # Bits: 8	Description: BRC2_TRANSISTOR_Q3_TEMPERATURE Data Range: -37.910:282.748	Channel Type: PASSIVE MUX Address: 83E5 Connector-Pin: J11-85				
BCA transistor 4 temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 2.82748E+02 n1 = -6.38254E+00 n2 = 9.71241E-02 n3 = -7.72028E-04 n4 = 2.95395E-06 n5 = -4.35664E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 2.82748E+02 n1 = -6.38254E+00 n2 = 9.71241E-02 n3 = -7.72028E-04 n4 = 2.95395E-06 n5 = -4.35664E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 2.82748E+02 n1 = -6.38254E+00 n2 = 9.71241E-02 n3 = -7.72028E-04 n4 = 2.95395E-06 n5 = -4.35664E-09				

EDF TELEMETRY

T-0200	BAT1_T1	PWR
Data Type: UNSIGNED # Bits: 8	Description: BATT_PACK_1_A_TEMPERATURE Data Range: -25.384:86.575	Channel Type: PASSIVE MUX Address: 8270 Connector-Pin: J8-81
Gives the temperature of Battery 1 T1. Used by the Power Management Software (PMS) in its Battery Charge Management and in its over temperature protection feature (this TLM and Battery 1 T2 TLM are averaged and gradient between them is also calculated).		
Loss of Function: N/A		
Recommended Action: Monitor battery for thermal/charge problems.		
Impact of Loss of Tlm:		
Alternate Telemetry: T-0201 (BAT1_T2) Related Measurements: T-0201 (BAT1_T2), T-0202 (BAT2_T1), T-0203 (BAT2_T2)		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 8.65755E+01 n1 = -1.82452E+00 n2 = 1.90250E-02 n3 = -1.11437E-04 n4 = 3.16607E-07 n5 = -3.47538E-10
T-0201	BAT1_T2	PWR
Data Type: UNSIGNED # Bits: 8	Description: BATT_PACK_1_B_TEMPERATURE Data Range: -25.384:86.575	Channel Type: PASSIVE MUX Address: 8350 Connector-Pin: J10-64
Gives the temperature of Battery 1 T2. Used by the power management software (PMS) in its battery charge management and in its over temperature protection feature (this TLM and Battery 1 T1 TLM are averaged and gradient between them is also calculated).		
Loss of Function: N/A.		
Recommended Action: Monitor battery for thermal/charge problems.		
Impact of Loss of Tlm: Loss of Battery 1 T2 temperature TLM information. The PMS will disallow this battery for contingency actions (BCR switch-over, Load Shed/Contingency Modes). The PMS will disallow trickle charging of battery 1.		
Alternate Telemetry: T-0200 (BAT1_T1) Related Measurements: T-0200 (BAT1_T1), T-0202 (BAT2_T1), T-0203 (BAT2_T2)		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 8.65755E+01 n1 = -1.82452E+00 n2 = 1.90250E-02 n3 = -1.11437E-04 n4 = 3.16607E-07 n5 = -3.47538E-10

EDF TELEMETRY

T-0202	BAT2_T1	PWR
Data Type: UNSIGNED # Bits: 8	Description: BATT_PACK_2_A_TEMPERATURE Data Range: -25.384:86.575	Channel Type: PASSIVE MUX Address: 8366 Connector-Pin: J10-86
Gives the temperature of Battery 2 T1. Used by the power management software (PMS) in its Battery Charge Management and in its over temperature protection feature (this TLM and Battery 2 T2 TLM are averaged and gradient between them is also calculated).		
Loss of Function: N/A.		
Recommended Action: Monitor battery for thermal/charge problems.		
Impact of Loss of Tlm: Loss of Battery 2 T1 temperature TLM information. The PMS will disallow this battery for contingency actions (BCR switch-over, Load Shed/Contingency Modes). The PMS will disallow trickle charging of battery 1.		
Alternate Telemetry: T-0203 (BAT2_T2) Related Measurements: T-0203 (BAT2_T2), T-0200 (BAT1_T1), T-0201 (BAT1_T2)		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 8.65755E+01 n1 = -1.82452E+00 n2 = 1.90250E-02 n3 = -1.11437E-04 n4 = 3.16607E-07 n5 = -3.47538E-10
T-0203	BAT2_T2	PWR
Data Type: UNSIGNED # Bits: 8	Description: BATT_PACK_2_B_TEMPERATURE Data Range: -25.384:86.575	Channel Type: PASSIVE MUX Address: 825E Connector-Pin: J8-63
Gives the temperature of Battery 2 T2. Used by the Power Management Software (PMS) in its battery charge management and in its over temperature protection feature (this TLM and battery 2 T1 TLM are averaged and gradient between them is also calculated).		
Loss of Function: N/A.		
Recommended Action: Monitor battery for thermal/charge problems.		
Impact of Loss of Tlm:		
Alternate Telemetry: T-0202 (BAT2_T1) Related Measurements: T-0202 (BAT2_T1), T-0200 (BAT1_T1), T-0201 (BAT1_T2)		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 8.65755E+01 n1 = -1.82452E+00 n2 = 1.90250E-02 n3 = -1.11437E-04 n4 = 3.16607E-07 n5 = -3.47538E-10

EDF TELEMETRY

T-0205	BCR1_HSNK_T		PWR
Data Type: UNSIGNED # Bits: 8	Description: BCR1_HEAT_SINK_TEMPERATURE Data Range: -35.006:144.384	Channel Type: HL ANALOG MUX Address: 8283 Connector-Pin: J9-3	
Gives Temperature of heat sink for Battery Charge Regulator 1 (BCR1).			
Loss of Function: N/A			
Recommended Action: Monitor battery charge current. Check alternate telemetry.			
Impact of Loss of Tlm: Loss of BCR 1 Heat Sink temp. information. Not mission critical.			
Alternate Telemetry: T-0206 (BCR2_HSNK_T) Related Measurements: Applicable Panel Node Temperature from Thermal Subsystem Telemetry.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -4.37299E+01 n1 = 1.56535E+00 n2 = -2.24707E-02 n3 = 2.01240E-04 n4 = -8.80765E-07 n5 = 1.54085E-09	
T-0206	BCR2_HSNK_T		PWR
Data Type: UNSIGNED # Bits: 8	Description: BCR2_HEAT_SINK_TEMPERATURE Data Range: -35.006:144.384	Channel Type: HL ANALOG MUX Address: 8303 Connector-Pin: J10-3	
Gives Temperature of heat sink for Battery Charge Regulator 2 (BCR2).			
Loss of Function: N/A			
Recommended Action: Monitor battery charge current. Check alternate telemetry.			
Impact of Loss of Tlm: Loss of BCR 2 Heat Sink temp. information. Not mission critical.			
Alternate Telemetry: T-0205 (BCR1_HSNK_T) Related Measurements: Applicable Panel Node Temperature from Thermal Subsystem.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -4.17562E+01 n1 = 1.40687E+00 n2 = -1.86986E-02 n3 = 1.65340E-04 n4 = -7.31683E-07 n5 = 1.31466E-09	

EDF TELEMETRY

T-0207	PSA_T1		PWR			
Data Type: UNSIGNED # Bits: 8	Description: PSA_TEMPERATURE_1 Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8358 Connector-Pin: J10-72				
PSA temperature 1.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0208	PSA_T2		PWR			
Data Type: UNSIGNED # Bits: 8	Description: PSA_TEMPERATURE_2 Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 83E8 Connector-Pin: J11-88				
PSA temperature 2.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0209	PSE_HSNK_T		PWR
Data Type: UNSIGNED # Bits: 8	Description: PSE_HEAT_SINK_TEMPERATURE Data Range: -12.145:90959	Channel Type: HL ANALOG MUX Address: 838B Connector-Pin: J11-11	
Gives temperature of PSE heat sink.			
Loss of Function: N/A			
Recommended Action: Check alternate telemetry. Impact of Loss of Tlm: Loss of PSE Heat Sink temp. information. Not mission critical. Alternate Telemetry: Panel Node temperature from thermal subsystem. Related Measurements: Applicable Panel Node Temperature from Thermal Subsystem Telemetry.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -1.21452E+01 n1 = 1.14745E+00 n2 = -1.62916E-02 n3 = 1.49553E-04 n4 = -6.21961E-07 n5 = 9.45904E-10	
T-0210	SA+Y_INR_F_T		PWR
Data Type: UNSIGNED # Bits: 8	Description: SA+Y_INNER_FRONT_TEMPERATURE Data Range: -240.704:273.961	Channel Type: PASSIVE MUX Address: 8267 Connector-Pin: J8-72	
+Y solar array inner panel front side temperature.			
Loss of Function: N/A			
Recommended Action: Check alternate telemetry. Impact of Loss of Tlm: Increased difficulty and decreased accuracy of S/A Capability calculation. Alternate Telemetry: T-0211 (SA+Y_INR_B_T) Related Measurements: T-0211 (SA+Y_INR_B_T), T-0212 (SA+Y_OUT_F_T), T-0213 (SA+Y_OUT_B_T)			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -2.40704E+02 n1 = 1.87492E+00 n2 = -8.35858E-04 n3 = 1.69617E-05 n4 = -7.20335E-08 n5 = 1.05954E-10	

EDF TELEMETRY

T-0211	SA+Y_INR_B_T		PWR
Data Type: UNSIGNED # Bits: 8	Description: SA+Y_INNER_BACK_TEMPERATURE Data Range: -240.753:274.317	Channel Type: PASSIVE MUX Address: 82E7 Connector-Pin: J9-87	
+Y solar array inner panel back side temperature.			
Loss of Function: N/A			
Recommended Action: Check alternate telemetry.			
Impact of Loss of Tlm: Increased difficulty and decreased accuracy of S/A Capability calculation.			
Alternate Telemetry: T-0210 (SA+Y_INR_F_T) Related Measurements: T-0210 (SA+Y_INR_F_T), T-0212 (SA+Y_OUT_F_T), T-0213 (SA+Y_OUT_B_T)			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -2.40753E+02 n1 = 1.86769E+00 n2 = -7.43081E-04 n3 = 1.64008E-05 n4 = -7.04455E-08 n5 = 1.04842E-10	
T-0212	SA+Y_OUT_F_T		PWR
Data Type: UNSIGNED # Bits: 8	Description: SA+Y_OUTER_FRONT_TEMPERATURE Data Range: -240.706:274.071	Channel Type: PASSIVE MUX Address: 8357 Connector-Pin: J10-71	
+Y solar array outer panel front side temperature.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: T-0213 (SA+Y_OUT_B_T) Related Measurements: T-0213 (SA+Y_OUT_B_T), T-0210 (SA+Y_INR_F_T), T-0211 (SA+Y_INR_B_T)			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -2.40706E+02 n1 = 1.87487E+00 n2 = -8.28874E-04 n3 = 1.69613E-05 n4 = -7.22688E-08 n5 = 1.06577E-10	

EDF TELEMETRY

T-0213	SA+Y_OUT_B_T		PWR
Data Type: UNSIGNED # Bits: 8	Description: SA+Y_OUTER_BACK_TEMPERATURE Data Range: -240.843:273.151	Channel Type: PASSIVE MUX Address: 83ED Connector-Pin: J11-93	
+Y solar array outer panel back side temperature.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: T-0212 (SA+Y_OUT_F_T) Related Measurements: T-0212 (SA+Y_OUT_F_T), T-0210 (SA+Y_INR_F_T), T-0211 (SA+Y_INR_B_T)			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -2.40843E+02 n1 = 1.86445E+00 n2 = -7.86025E-04 n3 = 1.72769E-05 n4 = -7.51411E-08 n5 = 1.12141E-10	
T-0214	SA-Y_INR_F_T		PWR
Data Type: UNSIGNED # Bits: 8	Description: SA-Y_INNER_FRONT_TEMPERATURE Data Range: -240.806:273.731	Channel Type: PASSIVE MUX Address: 826B Connector-Pin: J8-76	
-Y solar array inner panel front side temperature.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: T-0215 (SA-Y_INR_B_T) Related Measurements: T-0215 (SA-Y_INR_B_T), T-0216 (SA-Y_OUT_F_T), T-0217 (SA-Y_OUT_B_T)			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -2.40806E+02 n1 = 1.86475E+00 n2 = -7.46507E-04 n3 = 1.69152E-05 n4 = -7.38518E-08 n5 = 1.10698E-10	

EDF TELEMETRY

T-0215	SA-Y_INR_B_T		PWR
Data Type: UNSIGNED # Bits: 8	Description: SA-Y_INNER_BACK_TEMPERATURE Data Range: -240.692:279.009	Channel Type: PASSIVE MUX Address: 82DF Connector-Pin: J9-79	
-Y solar array inner panel back side temperature.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: T-0214 (SA-Y_INR_F_T) Related Measurements: T-0214 (SA-Y_INR_F_T), T-0216 (SA-Y_OUT_F_T), T-0217 (SA-Y_OUT_B_T)			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -2.40692E+02 n1 = 1.88793E+00 n2 = -7.69548E-04 n3 = 1.67132E-05 n4 = -7.22127E-08 n5 = 1.08072E-10	
T-0216	SA-Y_OUT_F_T		PWR
Data Type: UNSIGNED # Bits: 8	Description: SA-Y_OUTER_FRONT_TEMPERATURE Data Range: -240.396:273.000	Channel Type: PASSIVE MUX Address: 8359 Connector-Pin: J10-73	
-Y solar array outer panel front side temperature.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: T-0217 (SA-Y_OUT_B_T) Related Measurements: T-0217 (SA-Y_OUT_B_T), T-0214 (SA-Y_INR_F_T), T-0215 (SA-Y_INR_B_T)			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -2.40396E+02 n1 = 1.84064E+00 n2 = 1.07294E-04 n3 = 6.73348E-06 n4 = -2.37110E-08 n5 = 2.38000E-11	

EDF TELEMETRY

T-0217	SA-Y_OUT_B_T		PWR
Data Type: UNSIGNED # Bits: 8	Description: SA-Y_OUTER_BACK_TEMPERATURE Data Range: -240.771:274.149	Channel Type: PASSIVE MUX Address: 83E4 Connector-Pin: J11-84	
-Y solar array outer panel back side temperature.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: T-0216 (SA-Y_OUT_F_T) Related Measurements: T-0216 (SA-Y_OUT_F_T), T-0214 (SA-Y_INR_F_T), T-0215 (SA-Y_INR_B_T)			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -2.40771E+02 n1 = 1.87207E+00 n2 = -8.25515E-04 n3 = 1.73000E-05 n4 = -7.43727E-08 n5 = 1.10211E-10	
T-0221	ER_SENSOR_T		PYLD
Data Type: UNSIGNED # Bits: 8	Description: ER_SENSOR_TEMPERATURE Data Range: -42.000:77.900	Channel Type: HL ANALOG MUX Address: 8286 Connector-Pin: J9-6	
Indicates the temperature of the ER sensor. For this tlm channel to be operational, the MAG_SENSOR_HTR circuit must be ON.			
Loss of Function: N/A			
Recommended Action: Contact instrument PI (Mario Acuna) or ER IM (Dave Curtis). If the ER gets too hot, turn off the ER and/or the replacement heater. If too cold, turn on the ER and/or the replacement heater.			
Impact of Loss of Tlm: Inability to obtain temperature data for the ER from the engineering TLM stream.			
Alternate Telemetry: MAG/ER internal source packets if ER is powered on. Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -4.20000E+01 n1 = 4.70196E-01	

EDF TELEMETRY

T-0222	MAG_ELC_T		PYLD
Data Type: UNSIGNED # Bits: 8	Description: MAG_ELECTRONICS_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 827D Connector-Pin: J8-94	
Temperature of the electronics box of the MAG/ER.			
Loss of Function: NA			
Recommended Action: Call the PI (Mario Acuna) and the Payload Engineer. If the electronics box is too hot, turn the MAG off. If too cold, check NED panel temperature TLM. Use caution when turning off the MAG as the MAG/ER sensor temperatures must not drop below their flight allowables. Impact of Loss of Tlm: Inability to obtain temperature data for the MAG Electronics Box from the engineering TLM stream.			
Alternate Telemetry: MAG internal source packets if the MAG is on. Related Measurements: NED temperature TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11	
T-0223	MAG_+Y_T		PYLD
Data Type: UNSIGNED # Bits: 8	Description: MAG_+Y_TEMPERATURE Data Range: -40.600:78.800	Channel Type: HL ANALOG MUX Address: 8293 Connector-Pin: J9-19	
Temperature of primary (+Y) magnetometer. For this tlm channel to be operational, the MAG_SENSOR_HTR circuit must be ON.			
Loss of Function: N/A			
Recommended Action: Contact PI (Mario Acuna) and the Payload Engineer. If too hot, turn MAG and/or the supplemental heater off. If too cold, turn on the MAG and/or the supplemental heater. Impact of Loss of Tlm: Loss of temperature data for the +Y MAG Sensor from the engineering TLM stream.			
Alternate Telemetry: MAG internal source packets if the MAG is on. Related Measurements: T-0224 MAG_-Y_T			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -4.06000E+01 n1 = 4.68235E-01	

EDF TELEMETRY

T-0224	MAG_-Y_T	PYLD
Data Type: UNSIGNED # Bits: 8	Description: MAG_-Y_TEMPERATURE Data Range: -39.600:78.500	Channel Type: HL ANALOG MUX Address: 8313 Connector-Pin: J10-19
Temperature of secondary (-Y) magnetometer. For this tlm channel to be operational, the MAG_SENSOR_HTR circuit must be ON.		
Loss of Function: N/A		
Recommended Action: Contact PI (Mario Acuna) and the Payload Engineer. If too hot, turn MAG and/or the supplemental heater off. If too cold, turn on the MAG and/or the supplemental heater.		
Impact of Loss of Tlm: Loss of temperature data for the -Y MAG Sensor from the engineering TLM steam.		
Alternate Telemetry: MAG internal source packets if the MAG is on. Related Measurements: T-0223 MAG_+Y_T		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = -3.96000E+01 n1 = 4.63137E-01
T-0225	MR_ANT_T	PYLD
Data Type: UNSIGNED # Bits: 8	Description: MR_ANTENNA_TEMPERATURE Data Range: -85.127:43.921	Channel Type: PASSIVE MUX Address: 8268 Connector-Pin: J8-73
Temperature for the Mars Relay antenna on the nadir panel.		
Loss of Function: N/A		
Recommended Action: Contact the MR IM (Andre Ribes) and the Payload Engineer.		
Impact of Loss of Tlm: Loss of temperature engineering TLM for the MR Antenna.		
Alternate Telemetry: Related Measurements: Examine the MR source packet if the MR is on.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.39213E+01 n1 = -6.80460E-02 n2 = -9.54949E-03 n3 = 7.73139E-05 n4 = -1.89318E-07 n5 = 2.57576E-11

EDF TELEMETRY

T-0226	MR_ELEC_T		PYLD
Data Type: UNSIGNED # Bits: 8	Description: MR_ELECTRONICS_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 83DB Connector-Pin: J11-75	
Temperature for the Mars Relay electronics box mounted on the NED.			
Loss of Function: N/A			
Recommended Action: Call the MR IM (Andre Ribes) and the Payload Engineer.			
Impact of Loss of Tlm: Loss of engineering temperature TLM for the MR Electronics Box.			
Alternate Telemetry: NED panel TLM. Related Measurements: Examine MR internal source packets if the MR is on.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11	
T-0227	MOC_ELEC_T		PYLD
Data Type: UNSIGNED # Bits: 8	Description: MOC_ELECTRONICS_TEMPERATURE Data Range: -52.126:94.264	Channel Type: PASSIVE MUX Address: 83DC Connector-Pin: J11-76	
Temperature of the electronics boards in the base of the MOC.			
Loss of Function: N/A			
Recommended Action: Call the MOC PI (Mike Malin) and the Payload Engineer. If too hot, turn the MOC or its replacement heater off. If too cold, turn on the replacement heater or the MOC			
Impact of Loss of Tlm: Loss of engineering TLM for the MOC electronics.			
Alternate Telemetry: T-0227, T-0229, T-0228. Also check the MOC W/A and N/A focal planes. Related Measurements: MOC source packets if the MOC is on.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.42645E+01 n1 = -2.42861E+00 n2 = 3.25787E-02 n3 = -2.44713E-04 n4 = 8.94775E-07 n5 = -1.27173E-09	

EDF TELEMETRY

T-0228		MOC_LWR_SM_T	PYLD
Data Type: UNSIGNED # Bits: 8	Description: MOC_LOWER_SM_TEMPERATURE Data Range: -69.648:143.846	Channel Type: PASSIVE MUX Address: 82DC Connector-Pin: J9-76	
Temperature of the MOC lower secondary mirror assembly.			
Loss of Function: N/A			
Recommended Action: Contact the MOC PI (Mike Malin) and the Payload Engineer if too hot or too cold.			
Impact of Loss of Tlm: Loss of engineering TLM for the lower SMSA.			
Alternate Telemetry: Related Measurements: MOC TLM: T-0230 MOC_UPR_SM_T			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.43846E+02 n1 = -3.02033E+00 n2 = 4.13399E-02 n3 = -3.28462E-04 n4 = 1.28905E-06 n5 = -1.98062E-09	
T-0229		MOC_NAFP_T	PYLD
Data Type: UNSIGNED # Bits: 8	Description: MOC_NAFP_TEMPERATURE Data Range: -79.986:90.217	Channel Type: PASSIVE MUX Address: 8255 Connector-Pin: J8-54	
Temperature of the narrow angle focal plane.			
Loss of Function: N/A			
Recommended Action: Contact the MOC PI (Mike Malin) and the Payload Engineer if too hot or cold.			
Impact of Loss of Tlm: Loss of engineering TLM for the MOC upper SMSA.			
Alternate Telemetry: Related Measurements: T-0227 MOC_ELECT_T, T-0229 MOC_NAFP_T, T-0228 MOC_LWR_SM_T.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.02169E+01 n1 = -2.72015E+00 n2 = 4.03699E-02 n3 = -3.28122E-04 n4 = 1.28464E-06 n5 = -1.94089E-09	

EDF TELEMETRY

T-0230	MOC_UPR_SM_T		PYLD			
Data Type: UNSIGNED # Bits: 8	Description: MOC_UPPER_SM_TEMPERATURE Data Range: -79.986:90.217	Channel Type: PASSIVE MUX Address: 83E7 Connector-Pin: J11-87				
Temperature of the MOC upper secondary mirror support assembly.						
Loss of Function: N/A						
Recommended Action: Contact the MOC PI (Mike Malin) and the Payload Engineer if too hot or too cold.						
Impact of Loss of Tlm: Loss of engineering TLM for the MOC upper SMSA.						
Alternate Telemetry: T-0227, T-0228, T-0229 Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.02169E+01 n1 = -2.72015E+00 n2 = 4.03699E-02 n3 = -3.28122E-04 n4 = 1.28464E-06 n5 = -1.94089E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.02169E+01 n1 = -2.72015E+00 n2 = 4.03699E-02 n3 = -3.28122E-04 n4 = 1.28464E-06 n5 = -1.94089E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.02169E+01 n1 = -2.72015E+00 n2 = 4.03699E-02 n3 = -3.28122E-04 n4 = 1.28464E-06 n5 = -1.94089E-09				
T-0231	MOC_WAA_T		PYLD			
Data Type: UNSIGNED # Bits: 8	Description: MOC_WAA_TEMPERATURE Data Range: -79.986:90.217	Channel Type: PASSIVE MUX Address: 8251 Connector-Pin: J8-50				
Temperature of the wide angle assembly (WAA). Note this is a new tlm measurement.						
Loss of Function: N/A						
Recommended Action: Call the MOC PI (Mike Malin) and the Payload Engineer if too hot or cold.						
Impact of Loss of Tlm: Loss of engineering TLM for the WAA.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.02169E+01 n1 = -2.72015E+00 n2 = 4.03699E-02 n3 = -3.28122E-04 n4 = 1.28464E-06 n5 = -1.94089E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.02169E+01 n1 = -2.72015E+00 n2 = 4.03699E-02 n3 = -3.28122E-04 n4 = 1.28464E-06 n5 = -1.94089E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.02169E+01 n1 = -2.72015E+00 n2 = 4.03699E-02 n3 = -3.28122E-04 n4 = 1.28464E-06 n5 = -1.94089E-09				

EDF TELEMETRY

T-0232	MOLA_ELEC_T	PYLD
Data Type: UNSIGNED # Bits: 8	Description: MOLA_ELECTRONICS_BOX_TEMP Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 8351 Connector-Pin: J10-65
Temperature of MOLA electronics box (under Nadir Tent).		
Loss of Function: N/A		
Recommended Action: Call the MOLA PI (Dave Smith) and System Engineer (Jay Smith), and the JPL Payload Engineer. If too hot turn MOLA off. If too cold, turn the replacement heater or the MOLA on.		
Impact of Loss of Tlm: Loss of engineering TLM for MOLA Electronics Box.		
Alternate Telemetry: MOLA Laser Assembly TLM, see T-0233. Related Measurements: Examine MOLA source packets if the MOLA is on		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
T-0233	MOLA_LSR_T	PYLD
Data Type: UNSIGNED # Bits: 8	Description: MOLA LASER_BOX_TEMP Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 82D3 Connector-Pin: J9-67
Temperature monitor for MOLA's Laser Transmitter at the base of telescope receiver.		
Loss of Function: N/A		
Recommended Action: Call the MOLA PI (Dave Smith) and System Engineer (Jay Smith), and the JPL Payload Engineer.		
Impact of Loss of Tlm: Loss of engineering TLM for the MOLA Laser Transmitter temperature.		
Alternate Telemetry: MOLA Electronics Assembly temperature TLM, T-0232. Related Measurements: See MOLA source packets if the MOLA is on.		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11

EDF TELEMETRY

T-0234	TES_OPTICS_T		PYLD
Data Type: UNSIGNED # Bits: 8	Description: TES_OPTICS_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 83D4 Connector-Pin: J11-68	
Thermal Emission Spectrometer optics temperature.			
Loss of Function: N/A			
Recommended Action: Contact the TES PI (Phil Christensen) and the Payload Engineer. If too hot, turn the TES or its replacement heater off. If too cold, turn on the replacement heater or the TES.			
Impact of Loss of Tlm: Loss of engineering TLM for the TES optics temperature.			
Alternate Telemetry: See T-0235 TES_ELEC_T if the TES is powered on. Related Measurements: NED temperature TLM.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09	
T-0235	TES_ELEC_T		PYLD
Data Type: UNSIGNED # Bits: 8	Description: TES_ELECTRONICS_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 827C Connector-Pin: J8-93	
Thermal Emission Spectrometer electronics temperature.			
Loss of Function: N/A			
Recommended Action: Contact the TES PI (Phil Christensen) and the Payload Engineer. If too hot, turn TES or its replacement heater off. If too cold, turn on the replacement heater or the TES.			
Impact of Loss of Tlm: Loss of engineering TLM for the TES electronics temperature.			
Alternate Telemetry: T-0234 TES_OPTICS_T, and Nadir panel TLM. Related Measurements: Examine TES internal source packets if TES is on.			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09	

EDF TELEMETRY

T-0240	HGA_CABLE_T		STR			
Data Type: UNSIGNED # Bits: 8	Description: HGA_CABLE_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 83DD Connector-Pin: J11-77				
HGA cable temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0241	HGA_DAMPER_T		STR			
Data Type: UNSIGNED # Bits: 8	Description: HGA_DAMPER_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 825D Connector-Pin: J8-62				
HGA damper temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0243	HGA_GIMBL1_T		STR			
Data Type: UNSIGNED # Bits: 8	Description: HGA_GIMBAL1_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 82D9 Connector-Pin: J9-73				
HGA gimbal 1 temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0244	HGA_GIMBL2_T		STR			
Data Type: UNSIGNED # Bits: 8	Description: HGA_GIMBAL2_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 83D5 Connector-Pin: J11-69				
HGA gimbal 2 temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0252	SA+Y_GMBL1_T		STR			
Data Type: UNSIGNED # Bits: 8	Description: SA+Y_GIMBAL1_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 826C Connector-Pin: J8-77				
Solar array +Y gimbal 1 temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0253	SA+Y_GMBL2_T		STR			
Data Type: UNSIGNED # Bits: 8	Description: SA+Y_GIMBAL2_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8355 Connector-Pin: J10-69				
Solar array +Y gimbal 2 temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0254	SA-Y_GMBL1_T		STR			
Data Type: UNSIGNED # Bits: 8	Description: SA-Y_GIMBAL1_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 83D3 Connector-Pin: J11-67				
Solar array -Y gimbal 1 temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0255	SA-Y_GMBL2_T		STR			
Data Type: UNSIGNED # Bits: 8	Description: SA-Y_GIMBAL2_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 82DB Connector-Pin: J9-75				
Solar array -Y gimbal 2 temperature.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0260		AFT_PANEL1_T	THRM																					
Data Type: UNSIGNED # Bits: 8	Description: AFT_PANEL1_TEMPERATURE Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 8367 Connector-Pin: J10-87																						
Loss of Function:																								
Recommended Action:																								
Impact of Loss of Tlm:																								
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td><td style="width: 33%;">Conversion Type: POLY</td><td style="width: 33%;">Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09</td></tr> <tr> <td>Test Type: EU</td><td>EU Units: DEG_C</td><td></td></tr> <tr> <td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr> <td>Red Alarm Lo:</td><td></td><td></td></tr> <tr> <td>Red Alarm Hi:</td><td></td><td></td></tr> <tr> <td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr> <td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </table>				Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09	Test Type: EU	EU Units: DEG_C		Red Alarm Type: OFF			Red Alarm Lo:			Red Alarm Hi:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09																						
Test Type: EU	EU Units: DEG_C																							
Red Alarm Type: OFF																								
Red Alarm Lo:																								
Red Alarm Hi:																								
In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							
T-0262		CENT_COLM1_T	THRM																					
Data Type: UNSIGNED # Bits: 8	Description: CENTER_COLUMN1_TEMPERATURE Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 836A Connector-Pin: J10-90																						
Loss of Function:																								
Recommended Action:																								
Impact of Loss of Tlm:																								
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td><td style="width: 33%;">Conversion Type: POLY</td><td style="width: 33%;">Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09</td></tr> <tr> <td>Test Type: EU</td><td>EU Units: DEG_C</td><td></td></tr> <tr> <td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr> <td>Red Alarm Lo:</td><td></td><td></td></tr> <tr> <td>Red Alarm Hi:</td><td></td><td></td></tr> <tr> <td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr> <td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </table>				Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09	Test Type: EU	EU Units: DEG_C		Red Alarm Type: OFF			Red Alarm Lo:			Red Alarm Hi:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09																						
Test Type: EU	EU Units: DEG_C																							
Red Alarm Type: OFF																								
Red Alarm Lo:																								
Red Alarm Hi:																								
In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							

EDF TELEMETRY

T-0263	CENT_COLM2_T		THRM			
Data Type: UNSIGNED # Bits: 8	Description: CENTER_COLUMN2_TEMPERATURE Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 826A Connector-Pin: J8-75				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0264	DIV_PANEL1_T		THRM			
Data Type: UNSIGNED # Bits: 8	Description: DIVIDER_PANEL1_TEMPERATURE Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 8274 Connector-Pin: J8-85				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0265	DIV_PANEL2_T		THRM			
Data Type: UNSIGNED # Bits: 8	Description: DIVIDER_PANEL2_TEMPERATURE Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 82D8 Connector-Pin: J9-72				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0266	DIV_PANEL3_T		THRM			
Data Type: UNSIGNED # Bits: 8	Description: DIVIDER_PANEL3_TEMPERATURE Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 8363 Connector-Pin: J10-83				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0267	DIV_PANEL4_T		THRM			
Data Type: UNSIGNED # Bits: 8	Description: DIVIDER_PANEL4_TEMPERATURE Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 83D1 Connector-Pin: J11-65				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0269	EM-X_RADTR_T		THRM			
Data Type: UNSIGNED # Bits: 8	Description: EM-X_RADIATOR_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 835E Connector-Pin: J10-78				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				

EDF TELEMETRY

T-0270	EM+X_PNL_T1		THRM			
Data Type: UNSIGNED # Bits: 8	Description: EM+X_PANEL_TEMPERATURE_1 Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 8364 Connector-Pin: J10-84				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0271	EM-X_PNL_T1		THRM			
Data Type: UNSIGNED # Bits: 8	Description: EM-X_PANEL_TEMPERATURE_1 Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 825F Connector-Pin: J8-64				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0272	EM-X_PNL_T2		THRM			
Data Type: UNSIGNED # Bits: 8	Description: EM-X_PANEL_TEMPERATURE_2 Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 835A Connector-Pin: J10-74				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0273	EM-X_PNL_T3		THRM			
Data Type: UNSIGNED # Bits: 8	Description: EM-X_PANEL_TEMPERATURE_3 Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 825A Connector-Pin: J8-59				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0274	EM+Y_PNL_T1		THRM			
Data Type: UNSIGNED # Bits: 8	Description: EM+Y_PANEL_TEMPERATURE_1 Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 827E Connector-Pin: J8-95				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0275	EM+Y_PNL_T2		THRM			
Data Type: UNSIGNED # Bits: 8	Description: EM+Y_PANEL_TEMPERATURE_2 Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 82DE Connector-Pin: J9-78				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0276	EM-Y_PNL_T1		THRM			
Data Type: UNSIGNED # Bits: 8	Description: EM-Y_PANEL_TEMPERATURE_1 Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 8276 Connector-Pin: J8-87				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0277	EM-Y_PNL_T2		THRM			
Data Type: UNSIGNED # Bits: 8	Description: EM-Y_PANEL_TEMPERATURE_2 Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 8362 Connector-Pin: J10-82				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0278	EM-Z_PNL_T1		THRM			
Data Type: UNSIGNED # Bits: 8	Description: EM-Z_PANEL_TEMPERATURE_1 Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 8266 Connector-Pin: J8-71				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0279	EM-Z_PNL_T2		THRM			
Data Type: UNSIGNED # Bits: 8	Description: EM-Z_PANEL_TEMPERATURE_2 Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 82E2 Connector-Pin: J9-82				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0280	HGA_T	THRM			
Data Type: UNSIGNED # Bits: 8	Description: HIGH_GAIN_ANTENNA_TEMPERATURE Data Range: -85.127:43.921	Channel Type: PASSIVE MUX Address: 8252 Connector-Pin: J8-51			
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.39213E+01 n1 = -6.80460E-02 n2 = -9.54949E-03 n3 = 7.73139E-05 n4 = -1.89318E-07 n5 = 2.57576E-11 </td> </tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.39213E+01 n1 = -6.80460E-02 n2 = -9.54949E-03 n3 = 7.73139E-05 n4 = -1.89318E-07 n5 = 2.57576E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.39213E+01 n1 = -6.80460E-02 n2 = -9.54949E-03 n3 = 7.73139E-05 n4 = -1.89318E-07 n5 = 2.57576E-11			
T-0284	LV_CVR_TWT_T	THRM			
Data Type: UNSIGNED # Bits: 8	Description: LOUVER_COVER_TWTA_TEMPERATURE Data Range: -85.127:43.921	Channel Type: PASSIVE MUX Address: 82ED Connector-Pin: J9-93			
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 4.39213E+01 n1 = -6.80460E-02 n2 = -9.54949E-03 n3 = 7.73139E-05 n4 = -1.89318E-07 n5 = 2.57576E-11 </td> </tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.39213E+01 n1 = -6.80460E-02 n2 = -9.54949E-03 n3 = 7.73139E-05 n4 = -1.89318E-07 n5 = 2.57576E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 4.39213E+01 n1 = -6.80460E-02 n2 = -9.54949E-03 n3 = 7.73139E-05 n4 = -1.89318E-07 n5 = 2.57576E-11			

EDF TELEMETRY

T-0285		NADIR_PNL_T1	THRM																					
Data Type: UNSIGNED # Bits: 8	Description: NADIR_PANEL_TEMPERATURE_1 Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 8353 Connector-Pin: J10-67																						
Loss of Function:																								
Recommended Action:																								
Impact of Loss of Tlm:																								
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td><td style="width: 33%;">Conversion Type: POLY</td><td style="width: 33%;">Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09</td></tr> <tr> <td>Test Type: EU</td><td>EU Units: DEG_C</td><td></td></tr> <tr> <td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr> <td>Red Alarm Lo:</td><td></td><td></td></tr> <tr> <td>Red Alarm Hi:</td><td></td><td></td></tr> <tr> <td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr> <td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </table>				Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09	Test Type: EU	EU Units: DEG_C		Red Alarm Type: OFF			Red Alarm Lo:			Red Alarm Hi:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09																						
Test Type: EU	EU Units: DEG_C																							
Red Alarm Type: OFF																								
Red Alarm Lo:																								
Red Alarm Hi:																								
In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							
T-0286		NADIR_PNL_T2	THRM																					
Data Type: UNSIGNED # Bits: 8	Description: NADIR_PANEL_TEMPERATURE_2 Data Range: -51.170:155.151	Channel Type: PASSIVE MUX Address: 82EA Connector-Pin: J9-90																						
Loss of Function:																								
Recommended Action:																								
Impact of Loss of Tlm:																								
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td><td style="width: 33%;">Conversion Type: POLY</td><td style="width: 33%;">Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09</td></tr> <tr> <td>Test Type: EU</td><td>EU Units: DEG_C</td><td></td></tr> <tr> <td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr> <td>Red Alarm Lo:</td><td></td><td></td></tr> <tr> <td>Red Alarm Hi:</td><td></td><td></td></tr> <tr> <td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr> <td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </table>				Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09	Test Type: EU	EU Units: DEG_C		Red Alarm Type: OFF			Red Alarm Lo:			Red Alarm Hi:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09																						
Test Type: EU	EU Units: DEG_C																							
Red Alarm Type: OFF																								
Red Alarm Lo:																								
Red Alarm Hi:																								
In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							

EDF TELEMETRY

T-0300	CDU1_T		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: CDU1_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 8265 Connector-Pin: J8-70				
To monitor temperature of CDU 1.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				
T-0301	CDU2_T		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: CDU2_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 83E9 Connector-Pin: J11-89				
To monitor temperature of CDU 2.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				

EDF TELEMETRY

T-0302	EPC1_T		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: EPC1_TEMPERATURE Data Range: -68.132:151.173	Channel Type: PASSIVE MUX Address: 8254 Connector-Pin: J8-53				
Indicates temperature of EPC1.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.51173E+02 n1 = -3.44463E+00 n2 = 4.92130E-02 n3 = -3.90810E-04 n4 = 1.50840E-06 n5 = -2.26184E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.51173E+02 n1 = -3.44463E+00 n2 = 4.92130E-02 n3 = -3.90810E-04 n4 = 1.50840E-06 n5 = -2.26184E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.51173E+02 n1 = -3.44463E+00 n2 = 4.92130E-02 n3 = -3.90810E-04 n4 = 1.50840E-06 n5 = -2.26184E-09				
T-0303	EPC2_T		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: EPC2_TEMPERATURE Data Range: -68.132:151.173	Channel Type: PASSIVE MUX Address: 83EF Connector-Pin: J11-95				
Indicates temperature of EPC2.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.51173E+02 n1 = -3.44463E+00 n2 = 4.92130E-02 n3 = -3.90810E-04 n4 = 1.50840E-06 n5 = -2.26184E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.51173E+02 n1 = -3.44463E+00 n2 = 4.92130E-02 n3 = -3.90810E-04 n4 = 1.50840E-06 n5 = -2.26184E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.51173E+02 n1 = -3.44463E+00 n2 = 4.92130E-02 n3 = -3.90810E-04 n4 = 1.50840E-06 n5 = -2.26184E-09				

EDF TELEMETRY

T-0304	MOT1_AUX_T		TLCM
Data Type: UNSIGNED # Bits: 8	Description: MOT1_AUX_OSC_TEMPERATURE Data Range: -30990:84.813	Channel Type: PASSIVE MUX Address: 83D0 Connector-Pin: J11-64	
Indicates internal temperature of the MOT1 transmitter near the AUX OSC, which in turn can be used to predict expected downlink frequency when the AUX OSC is the reference oscillator.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 8.48128E+01 n1 = -8.61087E-01 n2 = 1.59592E-03	
T-0305	MOT1_VCO_T		TLCM
Data Type: UNSIGNED # Bits: 8	Description: MOT1_REC_VCO_TEMPERATURE Data Range: -92.529:118.736	Channel Type: PASSIVE MUX Address: 8368 Connector-Pin: J10-88	
Indicates internal temperature of the MOT1 receiver near the VCO which in turn can be used to predict the expected uplink best-lock frequency. The receiver temperature can also be used to provide some compensation for AGC versus temperature.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.18736E+02 n1 = -3.35372E+00 n2 = 5.31746E-02 n3 = -4.56941E-04 n4 = 1.88998E-06 n5 = -2.99419E-09	

EDF TELEMETRY

T-0307	MOT2_AUX_T	TLCM			
Data Type: UNSIGNED # Bits: 8	Description: MOT2_AUX_OSC_TEMPERATURE Data Range: -30.837:85.358	Channel Type: PASSIVE MUX Address: 82D7 Connector-Pin: J9-71			
Indicates internal temperature of the MOT2 transmitter near the AUX OSC, which in turn can be used to predict expected downlink frequency when the AUX OSC is the reference oscillator.					
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 8.53582E+01 n1 = -8.57905E-01 n2 = 1.57740E-03 </td> </tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 8.53582E+01 n1 = -8.57905E-01 n2 = 1.57740E-03
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 8.53582E+01 n1 = -8.57905E-01 n2 = 1.57740E-03			
T-0308	MOT2_VCO_T	TLCM			
Data Type: UNSIGNED # Bits: 8	Description: MOT2_REC_VCO_TEMPERATURE Data Range: -92.529:107.554	Channel Type: PASSIVE MUX Address: 825C Connector-Pin: J8-61			
Indicates internal temperature of the MOT2 receiver near the VCO which in turn can be used to predict the expected uplink best-lock frequency. The receiver temperature can also be used to provide some compensation for AGC versus temperature.					
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.07554E+02 n1 = -2.45121E+00 n2 = 3.32084E-02 n3 = -2.74624E-04 n4 = 1.16031E-06 n5 = -1.93548E-09 </td> </tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.07554E+02 n1 = -2.45121E+00 n2 = 3.32084E-02 n3 = -2.74624E-04 n4 = 1.16031E-06 n5 = -1.93548E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.07554E+02 n1 = -2.45121E+00 n2 = 3.32084E-02 n3 = -2.74624E-04 n4 = 1.16031E-06 n5 = -1.93548E-09			

EDF TELEMETRY

T-0310	RF_ISOLTR1_T		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: RF_ISOLATOR_1_TEMPERATURE Data Range: -48443:155.151	Channel Type: PASSIVE MUX Address: 83EA Connector-Pin: J11-90				
Indicates the temperature of the RF isolator in the RPA1 output path. This temperature is a function of the panel temperature and the reflected RF power dissipated in its load. The purpose of the isolator is to protect the RPA from this reflected power, primarily during ground test. High temperature indicates high reflected power and a problem in the output circuit beyond the isolator.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0311	RF_ISOLTR2_T		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: RF_ISOLATOR_2_TEMPERATURE Data Range: -48443:155.151	Channel Type: PASSIVE MUX Address: 835F Connector-Pin: J10-79				
Indicates the temperature of the RF isolator in the RPA2 output path. This temperature is a function of the panel temperature and the reflected RF power dissipated in its load. The purpose of the isolator is to protect the RPA from this reflected power, primarily during ground test. High temperature indicates high reflected power and a problem in the output circuit beyond the isolator.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0312	TWT1_T		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: TWT1_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 82EF Connector-Pin: J9-95				
Indicates temperature of TWT1.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0313	TWT2_T		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: TWT2_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8275 Connector-Pin: J8-86				
Indicates temperature of TWT2.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				

EDF TELEMETRY

T-0314	TWTA_ENCL_T		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: TWTA_ENCLOSURE_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8365 Connector-Pin: J10-85				
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09				
T-0315	USO_T		TLCM			
Data Type: UNSIGNED # Bits: 8	Description: USO_TEMPERATURE Data Range: -26.651:95.350	Channel Type: PASSIVE MUX Address: 8262 Connector-Pin: J8-67				
Gives the case temperature of the ultra-stable oscillator.						
Loss of Function: N/A						
Recommended Action: Contact the Radio Science Experiment Representative (Mick Connally) and the Payload Engineer.						
Impact of Loss of Tlm: Loss of engineering TLM for the USO temperature.						
Alternate Telemetry: L-0201 USO_OVEN_V Related Measurements: Check internal temperatures on the EM side of the NED						
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 9.53496E+01 n1 = -9.59585E-01 n2 = 4.62262E-03 n3 = -1.25573E-05 n4 = 1.76642E-08 n5 = -4.11460E-11				

EDF TELEMETRY

T-0316	KA_AMP_T	TLCM			
Data Type: UNSIGNED # Bits: 8	Description: KA_AMP_TEMPERATURE Data Range: -48.443:155.151	Channel Type: PASSIVE MUX Address: 8356 Connector-Pin: J10-70			
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0</td><td>Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09</td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: DEG_C CCL Process: OFF CCL Param: 0	Coefficients: n0 = 1.55151E+02 n1 = -2.76671E+00 n2 = 4.05190E-02 n3 = -3.41928E-04 n4 = 1.40099E-06 n5 = -2.21381E-09			

Appendix C

EDF Emergency, Engineering & Mission Mode Subcommutation Maps

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	byte-0	byte-1	byte-2	byte-3	byte-4	byte-5	byte-6	byte-7	byte-8	byte-9	
FO-B0	L-0022 CDU2_BITRATE 0x8020-6	C-0013 M_PHASE_R1S1 0x8100-6	P-0012 LT_V4_P_POS 0x8103-4	A-0001 CS_TRI_A_PWR 0x8104-7	C-0037 SCU2SCPK2_ST 0x810A-1	E-0012 BAT2_BU_CHG 0x810C-3	C-0001 CIU_BUS_SLCT 0x8119-5	C-0012 EDF_SIDE2_ST 0x811A-8	P-0002 LT_V1_P_POS 0x811B-8	L-0051 RF_SW_OUTPUT 0x811F-8	FO-B0
FO-B1	-----	L-0045 MOT2_RCVRCLK 0x8100-5	L-0070 TWTA2_FILMNT 0x8103-3	A-0011 IMU_HI_LO_ST 0x8104-6	A-0003 GYRO1_SP_MTR 0x8108-8	E-0006 BAT1_VT_SHFT 0x810B-8	C-0011 EDF_SIDE1_ST 0x8119-3	C-0030 SCP1_ALO_ERR 0x811A-7	C-0002 CIU_CNTNR_SCP 0x811B-7	L-0050 RF_SW_INPUT 0x811F-7	FO-B1
FO-B2	-----	C-0018 M_PHASE_R3S2 0x8100-4	C-0008 CIU_CLOCK_SL 0x8102-8	A-0009 IMU_DATA_CHA 0x8104-5	A-0006 GYRO_OVTMP_A 0x8108-7	E-0002 BAT1_BU_CHG 0x810B-6	C-0010 CIX_IO_X_ST 0x8119-2	C-0009 CIX_BUS_SLCT 0x811A-6	P-0005 LT_V2_P_POS 0x811B-6	L-0053 RF_SW_OSC 0x811F-6	FO-B2
FO-B3	L-0014 CDU1_SEU 0x8010-4	C-0016 M_PHASE_R2S2 0x8100-3	L-0060 TWTA1_FILMNT 0x8102-4	A-0002 CS_TRI_B_PWR 0x8104-4	A-0013 MHSA1_PWR 0x8108-5	E-0013 BAT2_CHG_CFG 0x810B-5	E-0020 PSE_BOST_REG 0x8117-6	C-0029 RXO_MODE_STA 0x811A-5	C-0006 CIU_SCPI_NOK 0x811B-5	-----	FO-B3
FO-B4	L-0013 CDU1_LOCK 0x8010-5	C-0014 M_PHASE_R1S2 0x8100-2	L-0071 TWTA2_HV 0x8102-2	A-0004 GYRO2_SP_MTR 0x8104-2	A-0005 GYRO3_SP_MTR 0x8108-4	E-0011 BAT2_PR_CHG 0x810B-1	E-0022 PSE_MODE_CRL 0x8117-3	C-0031 SCP2_ALO_ERR 0x811A-4	E-0021 PSE_CMD_SIDE 0x811B-4	-----	FO-B4
FO-B5	L-0012 CDU1_BITRATE 0x8010-6	L-0035 MOT1_RCVRCLK 0x8100-1	P-0016 LT_V5_P_POS 0x8102-1	A-0010 IMU_DATA_CHB 0x8104-1	A-0007 GYRO_OVTMP_B 0x8108-3	C-0034 SCU1SCPK1_ST 0x810A-8	E-0003 BAT1_CHG_CFG 0x8117-1	C-0033 SCP2_NRM_SWP 0x811A-2	C-0004 CIU_IO_X_ST 0x811B-3	L-0052 RF_SW_LGT 0x811F-3	FO-B5
FO-B6	-----	L-0024 CDU2_SEU 0x8020-4	C-0015 M_PHASE_R2S1 0x8100-8	C-0003 CIU_DESR_BUS 0x8103-8	A-0014 MHSA2_PWR 0x8108-1	C-0036 SCU2SCPK1_ST 0x810A-5	E-0016 BAT2_VT_SHFT 0x810C-5	C-0032 SCP1_NRM_SWP 0x811A-1	P-0008 LT_V3_P_POS 0x811B-2	L-0046 MOT2_TLM_MOD 0x811F-2	FO-B6
FO-B7	-----	L-0023 CDU2_LOCK 0x8020-5	C-0017 M_PHASE_R3S1 0x8100-7	L-0061 TWTA1_HV 0x8103-7	L-0080 USO_PWR 0x8106-4	C-0035 SCU1SCPK2_ST 0x810A-4	E-0001 BAT1_PR_CHG 0x810C-4	C-0005 CIU_RXO_SLCT 0x8119-8	C-0007 CIU_SCPI_NOK 0x811B-1	L-0036 MOT1_TLM_MOD 0x811F-1	FO-B7

	byte-0	byte-1	byte-2	byte-3	byte-4	byte-5	byte-6	byte-7	byte-8	byte-9			
F0-B0	L-0010 CDU1_SPARES 0x8010-1	L-0020 CDU2_SPARES 0x8020-1	P-0002 LT_V1_P_POS 0x811B-8	L-0101 CDU1_SNR 0x8014	L-0103 CDU2_SNR 0x8024	T-0040 BAT_P_HTR 0x8117-8	C-0003 CIU_DESR_BUS 0x8103-8	C-0005 CIU_RXO_SLCT 0x8119-8	C-0034 SCU1SCPK1_ST 0x810A-8	C-0024 PDS_A_PWR 0x810C-8			
F0-B1	----- ----- -----	----- ----- -----	C-0002 CIU_CTRN_SCP 0x811B-7	----- ----- -----	----- ----- -----	T-0017 PTANKS_S_ENA 0x8117-7	L-0061 TWTA1_HV 0x8103-7	P-0076 SA+YpyrA_ARM 0x8119-7	C-0043 SSR_1A_PWR 0x810A-7	I-0012 MOLA_ARM_ST 0x810C-7			
F0-B2	----- ----- -----	----- ----- -----	P-0005 LT_V2_P_POS 0x811B-6	----- ----- -----	----- ----- -----	E-0020 PSE_BOST_REG 0x8117-6	L-0091 KaBLE_ENABLE 0x8103-6	P-0061 CNTPyroA_ARM 0x8119-6	C-0063 SSR_2A_PWR 0x810A-6	I-0001 ER_COVER_POS 0x810C-6			
F0-B3	L-0014 CDU1_SEU 0x8010-4	L-0024 CDU2_SEU 0x8020-4	C-0006 CIU_SCP1_NOK 0x811B-5	----- ----- -----	----- ----- -----	C-0078 SSR_2B_DENA 0x8117-5	C-0023 PDS_B_OK 0x8103-5	C-0001 CIU_BUSS_SLCT 0x8119-5	C-0036 SCU2SCPK1_ST 0x810A-5	E-0016 BAT2_VT_SHFT 0x810C-5			
F0-B4	L-0013 CDU1_LOCK 0x8010-5	L-0023 CDU2_LOCK 0x8020-5	E-0021 PSE_CMD_SIDE 0x811B-4	----- ----- -----	----- ----- -----	T-0041 BAT_S_HTR 0x8117-4	P-0012 LT_V4_P_POS 0x8103-4	P-0078 SA-YpyrA_ARM 0x8119-4	C-0035 SCU1SCPK2_ST 0x810A-4	E-0001 BAT1_PR_CHG 0x810C-4			
F0-B5	L-0012 CDU1_BITRATE 0x8010-6	L-0022 CDU2_BITRATE 0x8020-6	C-0004 CIU_JO_X_ST 0x811B-3	----- ----- -----	----- ----- -----	E-0022 PSE_MODE_CRL 0x8117-3	L-0070 TWTA2_FILMT 0x8103-3	C-0011 EDF_SIDE1_ST 0x8119-3	C-0053 SSR_1B_PWR 0x810A-3	E-0012 BAT2_BU_CHG 0x810C-3			
F0-B6	----- ----- -----	----- ----- -----	P-0008 LT_V3_P_POS 0x811B-2	----- ----- -----	----- ----- -----	T-0016 PTANKS_P_ENA 0x8117-2	L-0032 MOT1_EXCITER 0x8103-2	C-0010 CIX_JO_X_ST 0x8119-2	C-0073 SSR_2B_PWR 0x810A-2	I-0013 MOLA_ENA_ST 0x810C-2			
F0-B7	----- ----- -----	----- ----- -----	C-0007 CIU_SCP2_NOK 0x811B-1	----- ----- -----	----- ----- -----	E-0003 BAT1_CHG_CFG 0x8117-1	C-0022 PDS_A_OK 0x8103-1	P-0074 PV6pyrA_ARM 0x8119-1	C-0037 SCU2SCPK2_ST 0x810A-1	C-0025 PDS_B_PWR 0x810C-1			
F1-B0													
F1-B1	L-0011 CDU1_OSC_OFL 0x8018-1	L-0021 CDU2_OSC_OFL 0x8028-1	C-0012 EDF_SIDE2_ST 0x811A-8	P-0020 ME_SD_A_ARM 0x811D-8	L-0051 RF_SW_OUTPUT 0x811F-8	T-0088 TWIGIM_P_HTR 0x810D-8	A-0003 GYRO1_SP_MTR 0x8108-8						
F1-B2	L-0100 CDU1_OSC_DRF 0x8018-2	L-0102 CDU2_OSC_DRF 0x8028-2	C-0030 SCP1_ALO_ERR 0x811A-7	P-0045 THRoddLO_ARM 0x811D-7	L-0050 RF_SW_INPUT 0x811F-7	T-0063 HGA_BM_S_HTR 0x810D-7	A-0006 GYRO_OVTMP_A 0x8108-7						
F1-B3	----- ----- -----	----- ----- -----	C-0009 CIX_BUSS_SLCT 0x811A-6	P-0079 SA-YpyrB_ARM 0x811D-6	L-0053 RF_SW_OSC 0x811F-6	T-0064 HGA_HD_P_HTR 0x810D-6	A-0008 IMUL_ACEL_TST 0x8108-6						
F1-B4	----- ----- -----	----- ----- -----	C-0029 RXO_MODE_STA 0x811A-5	T-0008 Delta1_P_HTR 0x811D-5	----- ----- -----	T-0030 LINEhyzP_ENA 0x810D-5	A-0013 MHSA1_PWR 0x8108-5						
F1-B5	----- ----- -----	----- ----- -----	C-0031 SCP2_ALO_ERR 0x811A-4	P-0077 SA+YpyrB_ARM 0x811D-4	----- ----- -----	T-0089 TWIGIM_S_HTR 0x810D-4	A-0005 GYRO3_SP_MTR 0x8108-4						
F1-B6	----- ----- -----	----- ----- -----	C-0058 SSR_1B_DENA 0x811A-3	P-0063 CNTPyroB_ARM 0x811D-3	L-0052 RF_SW_LGT 0x811F-3	T-0062 HGA_BM_P_HTR 0x810D-3	A-0007 GYRO_OVTMP_B 0x8108-3						
F1-B7	----- ----- -----	----- ----- -----	C-0033 SCP2_NRM_SWP 0x811A-2	P-0021 ME_SD_A_FNA 0x811D-2	L-0046 MOT2_TLM_MOD 0x811F-2	T-0065 HGA_HD_S_HTR 0x810D-2	A-0012 IMUL_TCA_STAT 0x8108-2						
F2-B0													
F2-B1	C-0015 M_PHASE_R251 0x8100-8	P-0023 ME_SD_B_ENA 0x810F-8	P-0043 THR_Cbeverse 0x8110-8	T-0001 CSA_P_HTR 0x8105-8	L-0031 MOT1_DOR_ON 0x8104-8								
F2-B2	C-0017 M_PHASE_R351 0x8100-7	P-0075 PV6pyrB_ARM 0x810F-7	P-0071 MDpyrB_ARM 0x8110-7	T-0004 MHSA_S_HTR 0x8105-7	A-0001 CS_TRIA_PWR 0x8104-7								
F2-B3	C-0013 M_PHASE_R151 0x8100-6	C-0069 SSR2BmodeC 0x810F-6	P-0017 LT_V5_S_POS 0x8110-6	L-0037 LINEnts_S_HTR 0x8105-6	A-0011 IMU_HI_LO_ST 0x8104-6								
F2-B4	L-0045 MOT2_RCVRLCK 0x8100-5	P-0004 LT_V2_ENA 0x810F-5	P-0009 LT_V3_S_POS 0x8110-5	T-0033 LINEhyzS_HTR 0x8105-5	A-0009 IMU_DATA_CHA 0x8104-5								
F2-B5	C-0018 M_PHASE_R352 0x8100-4	P-0022 ME_SD_B_ARM 0x810F-4	P-0065 MAPYpyrA_ARM 0x8110-4	T-0002 CSA_S_HTR 0x8105-4	A-0002 CS_TRIA_PWR 0x8104-4								
F2-B6	C-0016 M_PHASE_R252 0x8100-3	P-0047 THRenvLO_ARM 0x810F-3	P-0070 MDpyrB_ENA 0x8110-3	T-0003 MHSA_P_HTR 0x8105-3	L-0041 MOT2_DOR_ON 0x8104-3								
F2-B7	C-0014 M_PHASE_R152 0x8100-2	P-0001 LT_V1_ENA 0x810F-2	P-0013 LT_V4_S_POS 0x8110-2	T-0036 LINEntop_HTR 0x8105-2	A-0004 GYRO3_SP_MTR 0x8104-2								
F3-B0													
F3-B1	C-0048 SSR_1A_DENA 0x8106-8	P-0006 LT_V2_S_POS 0x8109-8	C-0008 CIU_CLOCK_SL 0x8102-8	C-0070 SSR2BmodeABD 0x8111-8	C-0044 SSR_1A_READY 0x8112-8								
F3-B2	L-0043 MOT2_TWNC 0x8106-7	P-0011 LT_V4_ENA 0x8109-7	L-0090 KaBLE_STAT 0x8102-7	----- ----- -----	C-0045 SSR_1A_EOM 0x8112-7								
F3-B3	L-0034 MOT1_RANGING 0x8106-6	P-0067 MAPYpyrA_ARM 0x8109-6	L-0042 MOT2_EXCITER 0x8102-6	----- ----- -----	C-0046 SSR_1A_EOP 0x8112-6								
F3-B4	L-0047 MOT2_USO_ENA 0x8106-5	P-0068 MDpyrA_ENA 0x8109-5	C-0068 SSR_2A_DENA 0x8102-5	----- ----- -----	C-0047 SSR_1A_REOP 0x8112-5								
F3-B5	L-0080 USL_PWR 0x8106-4	P-0024 ME_FLNG_A_EN 0x8109-4	L-0060 TWTA1_FILMT 0x8102-4	C-0072 SSR_2B_PART 0x8111-4	C-0064 SSR_2A_READY 0x8112-4								
F3-B6	L-0033 MOT1_TWNC 0x8106-3	P-0010 LT_V4_ARM 0x8109-3	P-0044 THR_CBoddeS 0x8102-3	----- ----- -----	C-0065 SSR_2A_EOM 0x8112-3								
F3-B7	L-0037 MOT1_USO_ENA 0x8106-1	P-0069 MDpyrA_ARM 0x8109-1	L-0071 TWTA2_HV 0x8102-2	----- ----- -----	C-0066 SSR_2A_EOP 0x8112-2								

F4-B0	T-0052 MOC_BKOT_SW1 0x811C-8	C-0054 SSR_1B_READY 0x8113-8	F4-B0
F4-B1	T-0054 MOC_P_HTR 0x811C-7	C-0055 SSR_1B_EOM 0x8113-7	F4-B1
F4-B2	T-0050 ER_HTR 0x811C-6	C-0056 SSR_1B_EOP 0x8113-6	F4-B2
F4-B3	T-0051 MAG_SENS_HTR 0x811C-5	C-0057 SSR_1B_REOP 0x8113-5	F4-B3
F4-B4	T-0053 MOC_BKOT_SW2 0x811C-4	C-0074 SSR_2B_READY 0x8113-4	F4-B4
F4-B5	T-0055 MOC_S_HTR 0x811C-3	C-0075 SSR_2B_EOM 0x8113-3	F4-B5
F4-B6	T-0056 MOLA_HTR 0x811C-2	C-0076 SSR_2B_EOP 0x8113-2	F4-B6
F4-B7	T-0057 TES_HTR 0x811C-1	C-0077 SSR_2B_REOP 0x8113-1	F4-B7
F5-B0	T-0082 EM-X2_P_HTR 0x8115-8	E-0006 BAT1_VT_SHFT 0x810B-8	F5-B0
F5-B1	T-0081 EM-X1_S_HTR 0x8115-7	E-0014 BAT2_TRK_ENA 0x810B-7	F5-B1
F5-B2	T-0084 EM+Y_P_HTR 0x8115-6	E-0002 BAT1_BU_CHG 0x810B-6	F5-B2
F5-B3	spare spare spare	E-0013 BAT2_CHG_CFG 0x810B-5	F5-B3
F5-B4	T-0083 EM-X2_S_HTR 0x8115-4	E-0004 BAT1_TRK_ENA 0x810B-4	F5-B4
F5-B5	T-0080 EM-X1_P_HTR 0x8115-3	E-0015 BAT2_TRK_ON 0x810B-3	F5-B5
F5-B6	T-0085 EM+Y_S_HTR 0x8115-2	E-0005 BAT1_TRK_ON 0x810B-2	F5-B6
F5-B7	spare spare spare	E-0011 BAT2_PR_CHG 0x810B-1	F5-B7
F6-B0	T-0010 PRS_VC1P_HTR 0x8114-8	P-0031 THR_CB_01_EN 0x8118-8	F6-B0
F6-B1	T-0013 PRS_VC2S_HTR 0x8114-7	P-0032 THR_CB_02_EN 0x8118-7	F6-B1
F6-B2	P-0039 THR_CB_09_EN 0x8114-6	P-0033 THR_CB_03_EN 0x8118-6	F6-B2
F6-B3	P-0040 THR_CB_10_EN 0x8114-5	P-0034 THR_CB_04_EN 0x8118-5	F6-B3
F6-B4	T-0011 PRS_VC1S_HTR 0x8114-4	P-0035 THR_CB_05_EN 0x8118-4	F6-B4
F6-B5	T-0012 PRS_VC2P_HTR 0x8114-3	P-0036 THR_CB_06_EN 0x8118-3	F6-B5
F6-B6	P-0041 THR_CB_11_EN 0x8114-2	P-0037 THR_CB_07_EN 0x8118-2	F6-B6
F6-B7	P-0042 THR_CB_12_EN 0x8114-1	P-0038 THR_CB_08_EN 0x8118-1	F6-B7
F7-B0	I-0003 MAG_A_PWR 0x8101-8	A-0020 IMU_HI_CMDP1 0x8116-8	F7-B0
F7-B1	I-0005 MR_TRANS_EN 0x8101-7	A-0021 IMU_LO_CMDP1 0x8116-7	F7-B1
F7-B2	I-0010 MOC_A_PWR 0x8101-6	T-0070 SA+YGM_P_HTR 0x8116-6	F7-B2
F7-B3	I-0014 MOLA_PWR 0x8101-5	T-0073 SA-YGM_S_HTR 0x8116-5	F7-B3
F7-B4	I-0004 MAG_B_PWR 0x8101-4	A-0022 IMU_HI_CMDP2 0x8116-4	F7-B4
F7-B5	I-0006 MR_TRANS_ST 0x8101-3	A-0023 IMU_LO_CMDP2 0x8116-3	F7-B5
F7-B6	I-0011 MOC_B_PWR 0x8101-2	T-0071 SA+YGM_S_HTR 0x8116-2	F7-B6
F7-B7	I-0015 TES_PWR 0x8101-1	T-0072 SA-YGM_P_HTR 0x8116-1	F7-B7

F8-B0		C-0041 SSR_1A_MODE 0x8060-1	C-0024 PDS_A_PWR 0x810C-8	F8-B0
F8-B1		-----	I-0012 MOLA_ARM_ST 0x810C-7	F8-B1
F8-B2		-----	I-0001 ER_COVER_POS 0x810C-6	F8-B2
F8-B3		-----	E-0016 BAT2_VT_SHFT 0x810C-5	F8-B3
F8-B4		C-0040 SSR_1A_CLOCK 0x8060-5	E-0001 BAT1_PR_CHG 0x810C-4	F8-B4
F8-B5		-----	E-0012 BAT2_BU_CHG 0x810C-3	F8-B5
F8-B6		-----	I-0013 MOLA_ENA_ST 0x810C-2	F8-B6
F8-B7		-----	C-0025 PDS_B_PWR 0x810C-1	F8-B7
F9-B0				
F9-B1		C-0080 XSUSIDE1 0x8060-1	A-0003 GYRO1_SP_MTR 0x8108-8	F9-B0
F9-B2		C-0082 XSU_W2_SPARE 0x8060-2	A-0006 GYRO_OVTMP_A 0x8108-7	F9-B1
F9-B3		-----	A-0008 IMU_ACEL_TST 0x8108-6	F9-B2
F9-B4		-----	A-0013 MHSA1_PWR 0x8108-5	F9-B3
F9-B5		-----	A-0005 GYRO3_SP_MTR 0x8108-4	F9-B4
F9-B6		C-0042 SSR_1A_PART 0x8060-6	A-0007 GYRO_OVTMP_B 0x8108-3	F9-B5
F9-B7		-----	A-0012 IMU_TCA_STAT 0x8108-2	F9-B6
F9-B8		-----	A-0014 MHSA2_PWR 0x8108-1	F9-B7
F10-B0				
F10-B1		C-0051 SSR_1B_MODE 0x8060-1	L-0031 MOT1_DOR_ON 0x8104-8	F10-B0
F10-B2		-----	A-0001 CS_TRI_A_PWR 0x8104-7	F10-B1
F10-B3		-----	A-0011 IMU_HI_LO_ST 0x8104-6	F10-B2
F10-B4		-----	A-0009 IMU_DATA_CHA 0x8104-5	F10-B3
F10-B5		C-0050 SSR_1B_CLOCK 0x8060-5	A-0002 CS_TRI_B_PWR 0x8104-4	F10-B4
F10-B6		-----	L-0041 MOT2_DOR_ON 0x8104-3	F10-B5
F10-B7		-----	A-0004 GYRO2_SP_MTR 0x8104-2	F10-B6
F10-B8		-----	A-0010 IMU_DATA_CHB 0x8104-1	F10-B7
F11-B0				
F11-B1		C-0081 XSUSIDE2 0x8060-1	C-0044 SSR_1A_READY 0x8112-8	F11-B0
F11-B2		C-0083 XSU_W4_SPARE 0x8060-2	C-0045 SSR_1A_EOM 0x8112-7	F11-B1
F11-B3		-----	C-0046 SSR_1A_EOP 0x8112-6	F11-B2
F11-B4		-----	C-0047 SSR_1A_REOP 0x8112-5	F11-B3
F11-B5		C-0052 SSR_1B_PART 0x8060-6	C-0064 SSR_2A_READY 0x8112-4	F11-B4
F11-B6		-----	C-0065 SSR_2A_EOM 0x8112-3	F11-B5
F11-B7		-----	C-0066 SSR_2A_EOP 0x8112-2	F11-B6
F11-B8		-----	C-0067 SSR_2A_REOP 0x8112-1	F11-B7

F12-B0	C-0061 SSR_2A_MODE 0x8060-1	C-0054 SSR_1B_READY 0x8113-8	F12-B0
F12-B1	C-0055 SSR_1B_EOM 0x8113-7 C-0056 SSR_1B_EOP 0x8113-6	F12-B1
F12-B2	C-0057 SSR_1B_REOP 0x8113-5	F12-B2
F12-B3	C-0074 SSR_2B_READY 0x8113-4	F12-B3
F12-B4	C-0060 SSR_2A_CLOCK 0x8060-5	C-0075 SSR_2B_EOM 0x8113-3	F12-B4
F12-B5	C-0076 SSR_2B_EOP 0x8113-2	F12-B5
F12-B6	C-0077 SSR_2B_REOP 0x8113-1	F12-B6
F12-B7	F12-B7
F13-B0	F13-B0
F13-B1	C-0084 XSU_W6_SPARE 0x8060-2	E-0014 BAT1_VT_SHFT 0x810B-8 E-0014 BAT2_TRK_ENA 0x810B-7	F13-B1
F13-B2	E-0002 BAT1_BU_CHG 0x810B-6 E-0013 BAT2_CHG_CFG 0x810B-5	F13-B2
F13-B3	E-0004 BAT1_TRK_ENA 0x810B-4	F13-B3
F13-B4	E-0015 BAT2_TRK_ON 0x810B-3	F13-B4
F13-B5	C-0062 SSR_2A_PART 0x8060-6	E-0005 BAT1_TRK_ON 0x810B-2	F13-B5
F13-B6	E-0011 BAT2_PR_CHG 0x810B-1	F13-B6
F13-B7	F13-B7
F14-B0	F14-B0
F14-B1	C-0085 XSU1_PGC 0x8060-1	T-0014 SvIVCL_P_HTR 0x8107-8 T-0019 PTANKS_S_HTR 0x8107-7	F14-B1
F14-B2	T-0015 LT_V5_ENA 0x8107-6	F14-B2
F14-B3	T-0021 THR_S_HTR 0x8107-5	F14-B3
F14-B4	C-0087 XSU1_SRC 0x8060-5	T-0015 SvIVCL_S_HTR 0x8107-4 T-0018 PTANKS_P_HTR 0x8107-3	F14-B4
F14-B5	P-0014 LT_V5_ARM 0x8107-2	F14-B5
F14-B6	T-0020 THR_P_HTR 0x8107-1	F14-B6
F14-B7	F14-B7
F15-B0	F15-B0
F15-B1	C-0086 XSU2_PGC 0x8060-1	T-0022 ME_P_HTR 0x810E-8 P-0027 ME_FNLNG_B_ON 0x810E-7	F15-B1
F15-B2	P-0046 THRroddHLL_ARM 0x810E-6	F15-B2
F15-B3	spare spare spare	F15-B3
F15-B4	C-0088 XSU2_SRC 0x8060-5	T-0023 ME_S_HTR 0x810E-4 P-0025 ME_FNLNG_A_ON 0x810E-3	F15-B4
F15-B5	P-0048 THRRevHLL_ARM 0x810E-2	F15-B5
F15-B6	T-0009 DeltaTS_HTR 0x810E-1	F15-B6
F15-B7	F15-B7

	byte-0	byte-1	byte-2	byte-3	byte-4	byte-5	byte-6	byte-7	byte-8	byte-9
F0-B0	P-0002 LT_V1_P_POS 0x811B-8	L-0101 CDU1_SNR 0x8014	L-0103 CDU2_SNR 0x8024	L-0011 CDU1_OSC_OFL 0x8018-1	L-0021 CDU2_OSC_OFL 0x8028-1	T-0040 BAT_P_HTR 0x8117-8	C-0003 CIU_DESR_BUS 0x8103-8	C-0005 CIU_RXO_SLCT 0x8119-8	C-0034 SCU1SCP1_ST 0x810A-8	C-0024 PDS_A_PWR 0x810C-8
F0-B1	C-0002 CIU_CNTR_SCP 0x811B-7	-----	-----	L-0100 CDU1_OSC_DRF 0x8018-2	L-0102 CDU2_OSC_DRF 0x8028-2	T-0017 PTANKS_S_ENA 0x8117-7	L-0061 TWTA1_HV 0x8103-7	P-0076 SA-YpyrA_ARM 0x8119-7	C-0043 SSR_1A_PWR 0x810A-7	I-0012 MOLA_ARM_ST 0x810C-7
F0-B2	P-0005 LT_V2_P_POS 0x811B-6	-----	-----	-----	-----	F-0020 PSE_BOST_REG 0x8117-6	KaBLE_ENABLE 0x8103-6	L-0091 P-0061 CNTpyroA_ARM 0x8119-6	C-0063 SSR_2A_PWR 0x810A-6	I-0001 ER_COVER_POS 0x810C-6
F0-B3	C-0006 CIU SCP1_NOK 0x811B-5	-----	-----	-----	-----	C-0078 SSR_2B_DENA 0x8117-5	C-0023 PDS_B_OK 0x8103-5	C-0001 CIU_BUS_SLCT 0x8119-5	C-0036 SCU2SCP1_ST 0x810A-5	E-0016 BAT2_VT_SHFT 0x810C-5
F0-B4	E-0021 PSE_CMD_SIDE 0x811B-4	-----	-----	-----	-----	T-0041 BAT_S_HTR 0x8117-4	P-0012 LT_V4_P_POS 0x8103-4	P-0078 SA-YpyrA_ARM 0x8119-4	C-0035 SCU1SCP2_ST 0x810A-4	E-0001 BAT1_PR_CHG 0x810C-4
F0-B5	C-0004 CIU_IO_X_ST 0x811B-3	-----	-----	-----	-----	E-0022 PSE_MODE_CRL 0x8117-3	L-0070 TWTA2_FILMNT 0x8103-3	C-0011 EDF_SIDE1_ST 0x8119-3	C-0053 SSR_1B_PWR 0x810A-3	E-0012 BAT2_BU_CHG 0x810C-3
F0-B6	P-0008 LT_V3_P_POS 0x811B-2	-----	-----	-----	-----	T-0016 PTANKS_P_ENA 0x8117-2	L-0032 MOT1_EXCITER 0x8103-2	C-0010 CIX_JO_X_ST 0x8119-2	C-0073 SSR_2B_PWR 0x810A-2	I-0013 MOLA_ENA_ST 0x810C-2
F0-B7	C-0007 CIU SCP2_NOK 0x811B-1	-----	-----	-----	-----	E-0003 BAT1_CHG_CFG 0x8117-1	C-0022 PDS_A_OK 0x8103-1	P-0074 PV6pyroA_ARM 0x8119-1	C-0037 SCU2SCP2_ST 0x810A-1	C-0025 PDS_B_PWR 0x810C-1
F1-B0	-----	-----	-----	-----	-----	C-0012 EDF_SIDE2_ST 0x811A-8	C-0054 SSR_1B_READY 0x8113-8	L-0051 RF_SW_OUTPUT 0x811F-8	T-0088 TWTGIM_P_HTR 0x810D-8	A-0003 GYRO1_SP_MTR 0x810B-8
F1-B1	-----	-----	-----	-----	-----	C-0030 SCP1_ALO_ERR 0x811A-7	C-0055 SSR_1B_EOM 0x8113-7	L-0050 RF_SW_INPUT 0x811F-7	T-0063 HGA_BM_S_HTR 0x810D-7	A-0006 GYRO_OVTMP_A 0x810B-7
F1-B2	-----	-----	-----	-----	-----	C-0009 CIX_BUS_SLCT 0x811A-6	C-0056 SSR_1B_EOSC 0x8113-6	L-0053 RF_SW_OSC 0x811F-6	T-0064 HGA_HD_P_HTR 0x810D-6	A-0008 IMU_ACEL_TST 0x810B-6
F1-B3	-----	-----	-----	-----	-----	C-0029 RXO_MODE_STA 0x811A-5	C-0057 SSR_1B_REOP 0x8113-5	-----	T-0030 LINEhyz2_ENA 0x810D-5	A-0013 MHSAA_PWR 0x810B-5
F1-B4	-----	-----	-----	-----	-----	C-0031 SCP2_ALO_ERR 0x811A-4	C-0074 SSR_2B_READY 0x8113-4	-----	T-0089 TWTGIM_S_HTR 0x810D-4	A-0005 GYRO3_SP_MTR 0x810B-4
F1-B5	-----	-----	-----	-----	-----	C-0058 SSR_1B_DENA 0x811A-3	C-0075 SSR_2B_EOM 0x8113-3	L-0052 RF_SW_LGT 0x811F-3	T-0062 HGA_BM_P_HTR 0x810D-3	A-0007 GYRO_OVTMP_B 0x810B-3
F1-B6	-----	-----	-----	-----	-----	C-0033 SCP2_NRM_SWP 0x811A-2	C-0076 SSR_2B_EOP 0x8113-2	L-0046 MOT2_TLM_MOD 0x811F-2	T-0065 HGA_HD_S_HTR 0x810D-2	A-0012 IMU_TCA_STAT 0x810B-2
F1-B7	-----	-----	-----	-----	-----	C-0032 SCP1_NRM_SWP 0x811A-1	C-0077 SSR_2B_EOP 0x8113-1	L-0036 MOT1_TLM_MOD 0x811F-1	T-0031 LINEhyz2_ENA 0x810D-1	A-0014 MHSAA_PWR 0x810B-1
F2-B0	-----	-----	-----	-----	-----	L-0010 CDU1_SPARES 0x8010-1	L-0020 CDU2_SPARES 0x8020-1	C-0015 M_PHASE_R2S1 0x8100-8	C-0041 SSR_1A_MODE 0x8060-1	L-0031 MOT1_DOR_ON 0x8104-8
F2-B1	-----	-----	-----	-----	-----	-----	C-0017 M_PHASE_R3S1 0x8100-7	-----	-----	A-0001 CSTRLA_PWR 0x8104-7
F2-B2	-----	-----	-----	-----	-----	-----	C-0013 M_PHASE_R1S1 0x8100-6	-----	A-0011 IMU_HI_LO_ST 0x8104-6	-----
F2-B3	-----	-----	-----	-----	-----	L-0014 CDU1_SEU 0x8010-4	L-0024 CDU2_SEU 0x8020-4	L-0045 MOT2_RCVRLCK 0x8100-5	-----	A-0009 IMU_DATA_CHA 0x8104-5
F2-B4	-----	-----	-----	-----	-----	L-0013 CDU1_LOCK 0x8010-5	L-0023 CDU2_LOCK 0x8020-5	C-0018 M_PHASE_R3S2 0x8100-4	C-0040 SSR_1A_CLOCK 0x8060-5	A-0002 CSTRLB_PWR 0x8104-4
F2-B5	-----	-----	-----	-----	-----	L-0012 CDU1_BITRATE 0x8010-6	L-0022 CDU2_BITRATE 0x8020-6	C-0016 M_PHASE_R2S2 0x8100-3	-----	L-0041 MOT2_DOR_ON 0x8104-3
F2-B6	-----	-----	-----	-----	-----	-----	C-0014 M_PHASE_R1S2 0x8100-2	-----	A-0004 GYRO2_SP_MTR 0x8104-2	-----
F2-B7	-----	-----	-----	-----	-----	-----	L-0035 MOT1_RCVRLCK 0x8100-1	-----	A-0010 IMU_DATA_CHB 0x8104-1	-----
F3-B0	-----	-----	-----	-----	-----	C-0048 SSR_1A_DENA 0x8106-8	C-0044 SSR_1A_READY 0x8112-8	C-0008 CIU_CLOCK_SL 0x8102-8	C-0080 XUSIDE1 0x8060-1	E-0006 BAT1_VT_SHFT 0x810B-8
F3-B1	-----	-----	-----	-----	-----	L-0043 MOT2_TWNC 0x8106-7	C-0045 SSR_1A_EOM 0x8112-7	L-0090 KaBLE_STAT 0x8102-7	C-0082 XSU_W2_SPARE 0x8060-2	E-0014 BAT2_TRK_ENA 0x810B-7
F3-B2	-----	-----	-----	-----	-----	L-0034 MOT1_RANGING 0x8106-6	C-0046 SSR_1A_EOP 0x8112-6	L-0042 MOT2_EXCITER 0x8102-6	-----	E-0002 BAT1_BU_CHG 0x810B-6
F3-B3	-----	-----	-----	-----	-----	L-0047 MOT2_USO_ENA 0x8106-5	C-0047 SSR_1A_REOP 0x8112-5	C-0068 SSR_2A_DENA 0x8102-5	-----	E-0013 BAT2_CHG_CFG 0x810B-5
F3-B4	-----	-----	-----	-----	-----	L-0080 USO_PWR 0x8106-4	C-0064 SSR_2A_READY 0x8112-4	L-0060 TWTA1_FILMNT 0x8102-4	-----	E-0004 BAT1_TRK_ENA 0x810B-4
F3-B5	-----	-----	-----	-----	-----	L-0033 MOT1_TWNC 0x8106-3	C-0065 SSR_2A_EOM 0x8112-3	P-0044 THR_CboddSE 0x8102-3	C-0042 SSR_1A_PART 0x8060-6	E-0015 BAT2_TRK_ON 0x810B-3
F3-B6	-----	-----	-----	-----	-----	L-0044 MOT2_RANGING 0x8106-2	C-0066 SSR_2A_EOP 0x8112-2	L-0071 TWTA2_HV 0x8102-2	-----	E-0005 BAT1_TRK_ON 0x810B-2
F3-B7	-----	-----	-----	-----	-----	L-0037 MOT1_USO_ENA 0x8106-1	C-0067 SSR_2A_REOP 0x8112-1	P-0016 LT_V5_P_POS 0x8102-1	-----	E-0011 BAT2_PR_CHG 0x810B-1

F4-B0	C-0051 SSR_1B_MODE 0x8060-1	P-0020 ME_SD_A_ARM 0x811D-8	F4-B0
F4-B1	----- ----- ----- ----- -----	P-0045 THRoddLO_ARM 0x811D-7	F4-B1
F4-B2	----- ----- ----- -----	P-0079 SA-YpyrB_ARM 0x811D-6	F4-B2
F4-B3	----- ----- -----	T-0008 DeltaT_P_HTR 0x811D-5	F4-B3
F4-B4	C-0050 SSR_1B_CLOCK 0x8060-5	P-0077 SA+YpyrB_ARM 0x811D-4	F4-B4
F4-B5	----- ----- -----	P-0063 CNTpyroB_ARM 0x811D-3	F4-B5
F4-B6	----- ----- -----	P-0021 ME_SD_A_ENA 0x811D-2	F4-B6
F4-B7	----- ----- -----	L-0058 RF_SW_23_INH 0x811D-1	F4-B7
F5-B0	C-0081 XSUSIDE2 0x8060-1	P-0023 ME_SD_B_ENA 0x810F-8	F5-B0
F5-B1	C-0083 XSU_W4_SPARE 0x8060-2	P-0075 PV6pyroB_ARM 0x810F-7	F5-B1
F5-B2	----- ----- -----	C-0069 SSR2BmodeC 0x810F-6	F5-B2
F5-B3	----- ----- -----	P-0004 LT_V2_ENA 0x810F-5	F5-B3
F5-B4	----- ----- -----	P-0022 ME_SD_B_ARM 0x810F-4	F5-B4
F5-B5	C-0052 SSR_1B_PART 0x8060-6	P-0047 THRevL0_ARM 0x810F-3	F5-B5
F5-B6	----- ----- -----	P-0001 LT_V1_ENA 0x810F-2	F5-B6
F5-B7	----- ----- -----	P-0007 LT_V3_ENA 0x810F-1	F5-B7
F6-B0	C-0061 SSR_2A_MODE 0x8060-1	T-0014 SvIvCL_P_HTR 0x8107-8	F6-B0
F6-B1	----- ----- -----	T-0019 PTANKS_S_HTR 0x8107-7	F6-B1
F6-B2	----- ----- -----	P-0015 LT_V5_ENA 0x8107-6	F6-B2
F6-B3	----- ----- -----	T-0021 THR_S_HTR 0x8107-5	F6-B3
F6-B4	C-0060 SSR_2A_CLOCK 0x8060-5	T-0015 SvIvCL_S_HTR 0x8107-4	F6-B4
F6-B5	----- ----- -----	T-0018 PTANKS_P_HTR 0x8107-3	F6-B5
F6-B6	----- ----- -----	P-0014 LT_V5_ARM 0x8107-2	F6-B6
F6-B7	----- ----- -----	T-0020 THR_P_HTR 0x8107-1	F6-B7
F7-B0	C-0020 MOTCROSS 0x8060-1	A-0020 IMU_HI_CMDP1 0x8116-8	F7-B0
F7-B1	C-0084 XSU_W6_SPARE 0x8060-2	A-0021 IMU_LO_CMDP1 0x8116-7	F7-B1
F7-B2	----- ----- -----	T-0070 SA+YGM_P_HTR 0x8116-6	F7-B2
F7-B3	----- ----- -----	T-0073 SA-YGM_S_HTR 0x8116-5	F7-B3
F7-B4	----- ----- -----	A-0022 IMU_HI_CMDP2 0x8116-4	F7-B4
F7-B5	C-0062 SSR_2A_PART 0x8060-6	A-0023 IMU_LO_CMDP2 0x8116-3	F7-B5
F7-B6	----- ----- -----	T-0071 SA+YGM_S_HTR 0x8116-2	F7-B6
F7-B7	----- ----- -----	T-0072 SA-YGM_P_HTR 0x8116-1	F7-B7

F8-B0	C-0085 XSU1_PGC 0x8060-1	C-0024 PDS_A_PWR 0x810C-8	F8-B0
F8-B1	----- ----- ----- ----- -----	I-0012 MOLA_ARM_ST 0x810C-7	F8-B1
F8-B2	----- ----- ----- ----- -----	I-0001 ER_COVER_POS 0x810C-6	F8-B2
F8-B3	----- ----- ----- ----- -----	E-0016 BAT2_VT_SHFT 0x810C-5	F8-B3
F8-B4	C-0087 XSU1_SRC 0x8060-5	E-0001 BAT1_PR_CHG 0x810C-4	F8-B4
F8-B5	----- ----- ----- ----- -----	E-0012 BAT2_BU_CHG 0x810C-3	F8-B5
F8-B6	----- ----- ----- ----- -----	I-0013 MOLA_ENA_ST 0x810C-2	F8-B6
F8-B7	----- ----- ----- ----- -----	C-0025 PDS_B_PWR 0x810C-1	F8-B7
F9-B0	C-0086 XSU2_PGC 0x8060-1	A-0003 GYRO1_SP_MTR 0x810B-8	F9-B0
F9-B1	----- ----- ----- ----- -----	A-0006 GYRO_OVTMP_A 0x810B-7	F9-B1
F9-B2	----- ----- ----- ----- -----	A-0008 IMU_ACCEL_TST 0x810B-6	F9-B2
F9-B3	----- ----- ----- ----- -----	A-0013 MHS1_PWR 0x810B-5	F9-B3
F9-B4	C-0088 XSU2_SRC 0x8060-5	A-0005 GYRO3_SP_MTR 0x810B-4	F9-B4
F9-B5	----- ----- ----- ----- -----	A-0007 GYRO_OVTMP_B 0x810B-3	F9-B5
F9-B6	----- ----- ----- ----- -----	A-0012 IMU_TCA_STAT 0x810B-2	F9-B6
F9-B7	----- ----- ----- ----- -----	A-0014 MHS2_PWR 0x810B-1	F9-B7
F10-B0	T-0001 CSA_P_HTR 0x8105-8	L-0031 MOT1_DOR_ON 0x8104-8	F10-B0
F10-B1	T-0004 MHS1_S_HTR 0x8105-7	A-0001 CS_TRI_A_PWR 0x8104-7	F10-B1
F10-B2	T-0037 LINEntoS_HTR 0x8105-6	A-0011 IMU_HI_LO_ST 0x8104-6	F10-B2
F10-B3	T-0033 LINEhyzS_HTR 0x8105-5	A-0009 IMU_DATA_CHA 0x8104-5	F10-B3
F10-B4	T-0002 CSA_S_HTR 0x8105-4	A-0002 CS_TRI_B_PWR 0x8104-4	F10-B4
F10-B5	T-0003 MHS1_P_HTR 0x8105-3	L-0041 MOT2_DOR_ON 0x8104-3	F10-B5
F10-B6	T-0036 LINEntoP_HTR 0x8105-2	A-0004 GYRO2_SP_MTR 0x8104-2	F10-B6
F10-B7	T-0032 LINEhyzP_HTR 0x8105-1	A-0010 IMU_DATA_CHB 0x8104-1	F10-B7
F11-B0	C-0070 SSR2BmodeABD 0x8111-8	E-0006 BAT1_VT_SHFT 0x810B-8	F11-B0
F11-B1	----- ----- ----- ----- -----	E-0014 BAT2_TRK_ENA 0x810B-7	F11-B1
F11-B2	----- ----- ----- ----- -----	E-0002 BAT1_BU_CHG 0x810B-6	F11-B2
F11-B3	----- ----- ----- ----- -----	E-0013 BAT2_CHG_CFG 0x810B-5	F11-B3
F11-B4	C-0072 SSR_2B_PART 0x8111-4	E-0004 BAT1_TRK_ENA 0x810B-4	F11-B4
F11-B5	----- ----- ----- ----- -----	E-0015 BAT2_TRK_ON 0x810B-3	F11-B5
F11-B6	----- ----- ----- ----- -----	E-0005 BAT1_TRK_ON 0x810B-2	F11-B6
F11-B7	P-0026 ME_FLNG_B_EN 0x8111-1	E-0011 BAT2_PR_CHG 0x810B-1	F11-B7

F12-B0	T-0052 MOC_BKOT_SW1 0x811C-8	P-0043 THR_CbevenSE 0x8110-8	F12-B0
F12-B1	T-0054 MOC_P_HTR 0x811C-7	P-0071 MDpyroB_ARM 0x8110-7	F12-B1
F12-B2	T-0050 ER_HTR 0x811C-6	P-0017 LT_V5_S_POS 0x8110-6	F12-B2
F12-B3	T-0051 MAG_SENS_HTR 0x811C-5	P-0009 LT_V3_S_POS 0x8110-5	F12-B3
F12-B4	T-0053 MOC_BKOT_SW2 0x811C-4	P-0065 MAPpyroA_ARM 0x8110-4	F12-B4
F12-B5	T-0055 MOC_S_HTR 0x811C-3	P-0070 MDpyroB_ENA 0x8110-3	F12-B5
F12-B6	T-0056 MOLA_HTR 0x811C-2	P-0013 LT_V4_S_POS 0x8110-2	F12-B6
F12-B7	T-0057 TES_HTR 0x811C-1	P-0003 LT_V1_S_POS 0x8110-1	F12-B7
F13-B0	T-0082 EM-X2_P_HTR 0x8115-8	P-0006 LT_V2_S_POS 0x8109-8	F13-B0
F13-B1	T-0081 EM-X1_S_HTR 0x8115-7	P-0011 LT_V4_ENA 0x8109-7	F13-B1
F13-B2	T-0084 EM+Y_P_HTR 0x8115-6	P-0067 MAPpyroB_ARM 0x8109-6	F13-B2
F13-B3	spare spare spare	P-0068 MDpyroA_ENA 0x8109-5	F13-B3
F13-B4	T-0083 EM-X2_S_HTR 0x8115-4	P-0024 ME_FLNG_A_EN 0x8109-4	F13-B4
F13-B5	T-0080 EM-X1_P_HTR 0x8115-3	P-0010 LT_V4_ARM 0x8109-3	F13-B5
F13-B6	T-0085 EM+Y_S_HTR 0x8115-2	spare spare spare	F13-B6
F13-B7	spare spare spare	P-0069 MDpyroA_ARM 0x8109-1	F13-B7
F14-B0	T-0010 PRS_VC1P_HTR 0x8114-8	P-0031 THR_CB_01_EN 0x8118-8	F14-B0
F14-B1	T-0013 PRS_VC2S_HTR 0x8114-7	P-0032 THR_CB_02_EN 0x8118-7	F14-B1
F14-B2	P-0039 THR_CB_09_EN 0x8114-6	P-0033 THR_CB_03_EN 0x8118-6	F14-B2
F14-B3	P-0040 THR_CB_10_EN 0x8114-5	P-0034 THR_CB_04_EN 0x8118-5	F14-B3
F14-B4	T-0011 PRS_VC1S_HTR 0x8114-4	P-0035 THR_CB_05_EN 0x8118-4	F14-B4
F14-B5	T-0012 PRS_VC2P_HTR 0x8114-3	P-0036 THR_CB_06_EN 0x8118-3	F14-B5
F14-B6	P-0041 THR_CB_11_EN 0x8114-2	P-0037 THR_CB_07_EN 0x8118-2	F14-B6
F14-B7	P-0042 THR_CB_12_EN 0x8114-1	P-0038 THR_CB_08_EN 0x8118-1	F14-B7
F15-B0	I-0003 MAG_A_PWR 0x8101-8	T-0022 ME_P_HTR 0x810E-8	F15-B0
F15-B1	I-0005 MR_TRANS_EN 0x8101-7	P-0027 ME_FLNG_B_ON 0x810E-7	F15-B1
F15-B2	I-0010 MOC_A_PWR 0x8101-6	P-0046 THroddhl_ARM 0x810E-6	F15-B2
F15-B3	I-0014 MOLA_PWR 0x8101-5	spare spare spare	F15-B3
F15-B4	I-0004 MAG_B_PWR 0x8101-4	T-0023 ME_S_HTR 0x810E-4	F15-B4
F15-B5	I-0006 MR_TRANS_ST 0x8101-3	P-0025 ME_FLNG_A_ON 0x810E-3	F15-B5
F15-B6	I-0011 MOC_B_PWR 0x8101-2	P-0048 THrevnHl_ARM 0x810E-2	F15-B6
F15-B7	I-0015 TES_PWR 0x8101-1	T-0009 DeltaT_S_HTR 0x810E-1	F15-B7

EDF ANALOG EMERGENCY DEFAULT MAP EDF_A_EMR_000 (1 of 1)

	byte-0	byte-1	byte-2	byte-3	byte-4	byte-5	byte-6	byte-7	byte-8	byte-9	byte-10	byte-11	byte-12	byte-13	byte-14	byte-15	byte-16	byte-17	byte-18	byte-19	byte-20	byte-21	byte-22	byte-23	byte-24	byte-25	byte-26	byte-27
F0	E-0130 SA_OUTPUT_J 0x82C9	E-0131 SA-Y_J 0x8323	E-0132 SA-Y_J 0x839B	PSE-28_BUS_J 0x8288	E-0141 PSE-28_BUS_V 0x8383	E-0140 PSE-28_BUS_V 0x8288	E-0105 BAT1_CHRG_J 0x820A	E-0106 BAT1_DCHG_J 0x838A	E-0115 BAT2_CHRG_J 0x82C7	E-0101 BAT2_DCHG_J 0x8282	E-0111 BAT2_HL_V 0x8247	E-0137 SA_PAR_SH_V 0x8393	E-0103 BAT1_HALF_V 0x8282	A-0122 SS1_ATA_J 0x82C3	C-0113 SS2_ATA_J 0x8398	L-0131 SCP1_5_V 0x8291	L-0141 TWT1_HLX_J 0x82C3	L-0141 TWT2_HLX_J 0x82A9	T-0302 EPC1_T 0x8254	P-0101 GHc_PRS 0x82AC	S-0100 SA-YmPOT_A 0x832B	T-0222 MAG_ELC_T 0x827D	T-0223 MAG_Y_T 0x8293	T-0226 MR_ELEC_T 0x83D4	T-0234 TES_OPTICS_T 0x83E7	F0		
F1	E-0130 SA_OUTPUT_J 0x82C9	E-0131 SA-Y_J 0x8323	E-0132 SA-Y_J 0x839B	PSE-28_BUS_J 0x8288	E-0141 PSE-28_BUS_V 0x8383	E-0140 PSE-28_BUS_V 0x8288	E-0108 BAT1_PRESS_1 0x8383	E-0109 BAT1_PRESS_2 0x82A8	E-0108 T-0200 BAT1_VT_LMIT 0x8214	E-0107 T-0212 BAT1_VT_LMIT 0x8270	E-0104 T-0213 SA-Y_OUT_B_T 0x83ED	A-0160 GYR01_MTR_J 0x8295	A-0161 GYR02_MTR_J 0x8292	C-0114 GYR02_MTR_J 0x8295	C-0113 GYR02_MTR_J 0x8295	L-0111 SCP2_5_V 0x8311	L-0111 MOT1_RCV阿根 0x8285	L-0121 MOT2_RCV阿根 0x828D	T-0312 TWT1_T 0x82EF	P-0103 NTO_IN_PRS 0x8349	S-0103 SA-YmPOT_B 0x823C	T-0221 ER_SENSOR_T 0x8286	T-0224 MAG_Y_T 0x8313	T-0225 MOC_ELEC_T 0x8251	T-0235 TES_ELEC_T 0x827C	F1		
F2	E-0130 SA_OUTPUT_J 0x82C9	E-0131 SA-Y_J 0x8323	E-0132 SA-Y_J 0x839B	PSE-28_BUS_J 0x8288	E-0141 PSE-28_BUS_V 0x8383	E-0140 PSE-28_BUS_V 0x8288	E-0105 BAT1_CHRG_J 0x830A	E-0106 BAT1_DCHG_J 0x838A	E-0115 BAT2_CHRG_J 0x82C7	E-0116 BAT2_DCHG_J 0x8282	E-0101 BAT2_HL_V 0x8247	E-0111 BCR1_HSNK_T 0x8283	E-0113 BAT2_HALF_V 0x8283	A-0122 SS1_ATA_J 0x83AA	T-0205 IMU_BLOCK_T 0x8398	T-0101 MOT1_VCO_T 0x8296	L-0113 MOT1_RCV_SPE 0x834F	T-0305 MOT2_VCO_T 0x828D	L-0123 MOT2_RCV_SPE 0x828C	T-0308 EPC2_T 0x83EF	P-0104 N2H4_JN_PRS 0x8324	S-0105 SA-YmPOT_B 0x8230	T-0225 spare spare spare	T-0226 MR_ANT_T 0x8268	T-0232 MOC_LWR_SM_T 0x8351	T-0240 MOLA_ELEC_T 0x83DD	F2	
F3	E-0130 SA_OUTPUT_J 0x82C9	E-0131 SA-Y_J 0x8323	E-0132 SA-Y_J 0x839B	PSE-28_BUS_J 0x8288	E-0141 PSE-28_BUS_V 0x8383	E-0140 PSE-28_BUS_V 0x8288	E-0120 BAT2_PRESS_1 0x83A3	E-0119 BAT2_PRESS_2 0x82A2	E-0118 T-0202 BAT2_VT_LMIT 0x831A	E-0117 T-0216 BAT2_CHRG_RT 0x8242	E-0114 T-0217 SA-Y_OUT_B_T 0x83E4	A-0170 RWA_Y_MTR_J 0x8280	A-0171 RWA_Z_MTR_J 0x8300	A-0172 RWA_X_BRG_T 0x8380	A-0173 RWA_S_MTR_J 0x8280	T-0106 RWA_X_BRG_T 0x829F	T-0107 RWA_Z_BRG_T 0x8318	T-0108 RWA_S_BRG_T 0x82AE	T-0109 TWT2_T 0x8275	T-0113 NTO_TANK_T2 0x8271	T-0117 SA-YmPOT_A 0x83AD	T-0118 N2H4_TNK1_T2 0x82E4	T-0181 N2H4_TNK2_T2 0x8255	T-0223 MOLA_NAFP_T 0x82D3	T-0241 HGA_DAMPER_T 0x825D	F3		

EDF ANALOG ENGINEERING DEFAULT MAP EDF_A_ENG_000 (1 of 1)

byte-0	byte-1	byte-2	byte-3	byte-4	byte-5	byte-6	byte-7	byte-8	byte-9	byte-10	byte-11	byte-12	byte-13	byte-14	byte-15	byte-16	byte-17	byte-18	byte-19	byte-20	byte-21	byte-22	byte-23	byte-24	byte-25	byte-26	byte-27																																																																																																																																																																																																																																																																				
F0	E-0130 SA_OUTPUT_I 0x82C9	E-0131 SA-Y_I 0x8323	E-0132 SA-Y_I 0x839B	E-0141 PSE+28_BUS_I 0x82B8	E-0142 PSE_PL_BUS_I 0x830B	E-0137 SA_PAR_SH_V 0x8393	E-0140 PSE+28_BUS_V 0x8383	E-0105 BAT1_CHRG_I 0x830A	E-0106 BAT1_CHRG_I 0x828A	E-0115 BAT2_CHRG_I 0x828A	E-0101 BAT2_HL_V 0x8282	E-0108 BAT1_PRESS_1 0x8214	E-0103 BAT2_HALF_V 0x832A	T-0200 BAT1_T1 0x8270	T-0202 BAT2_T1 0x8366	T-0203 BAT2_T2 0x825E	E-0102 BAT1_T2 0x8292	E-0112 BAT2_L0_V 0x829A	C-0101 A_CAL1_1.28V 0x824C	C-0102 A_CAL1_2.28V 0x8239	C-0103 A_CAL1_2.56V 0x82A6	C-0104 A_CAL1_3.84V 0x82A9	F1																																																																																																																																																																																																																																																																								
F1	A-0150 SPMTR_PH_A_V 0x830B	A-0151 SPMTR_PH_B_V 0x8388	A-0152 ACCEL_Y_V 0x82C0	A-0180 ACCEL_X_V 0x83C1	A-0181 ACCEL_Z_V 0x8248	A-0182 ACCEL_Z_V 0x82CF	A-0183 GYRO1_MTR_I 0x8344	A-0160 GYRO2_MTR_I 0x82CB	A-0161 GYRO3_MTR_I 0x83C5	P-0064 CNTPyroA_ENA 0x82AA	P-0066 MAPPyroA_ENA 0x82CA	P-0072 PTCMpyrB_ENA 0x8347	P-0073 PTCMpyrB_ENA 0x82AA	C-0141 SSR_1A_J 0x8246	C-0142 SSR_1B_J 0x8248	C-0131 SSR_1B_~5V 0x8240	C-0106 A_CAL1_3.84V 0x824D	C-0108 A_CAL1_5.12V 0x824C	C-0109 A_CAL1_5.12V 0x8241	C-0110 A_CAL1_5.12V 0x8240	C-0111 A_CAL1_5.12V 0x8240	C-0112 A_CAL1_5.12V 0x8240	C-0113 A_CAL1_5.12V 0x8240	C-0114 A_CAL1_5.12V 0x8240	C-0115 A_CAL1_5.12V 0x8240	C-0116 A_CAL1_5.12V 0x8240	F2																																																																																																																																																																																																																																																																				
F2	A-0130 IMU_XA_Z2_TO 0x82CC	A-0132 IMU_YA_X1_TO 0x83C4	A-0134 IMU_ZA_Y1_TO 0x8348	A-0122 IMU_SS_ATA_I 0x82C3	A-0123 IMU_SS_ATA_I 0x8348	A-0140 IMU_PR_AC_V 0x8383	A-0141 IMU_BU_DC_V 0x828B	A-0142 IMU_BU_DC_V 0x8245	A-0143 IMU_BU_DC_V 0x8345	P-0101 LINE_PRS 0x832C	P-0102 NTO_IN_PRS 0x832C	P-0103 NTO_OUT_PRS 0x8324	P-0105 N2H4_OUT_PRS 0x832C	P-0106 MOT1_EX_RF 0x8312	L-0110 MOT1_RNG_AGC 0x830D	L-0111 MOT1_RCV_CHAN 0x8346	L-0112 MOT1_RCV_CHAN 0x8346	L-0113 MOT1_RCV_CHAN 0x8346	L-0114 MOT1_RCV_CHAN 0x8346	L-0115 MOT1_RCV_CHAN 0x8346	L-0116 MOT1_RCV_CHAN 0x8346	L-0117 MOT1_RCV_CHAN 0x8346	L-0118 MOT1_RCV_CHAN 0x8346	L-0119 MOT1_RCV_CHAN 0x8346	L-0120 MOT1_RCV_CHAN 0x8346	L-0121 MOT2_EX_RF 0x830D	L-0122 MOT2_RCV_I 0x830D	L-0124 MOT2_RNG_AGC 0x828D	C-0119 EDF2_CNV_V 0x8285	C-0120 EDF2_CNL_I 0x828A	C-0126 PDS_B_+5_V 0x828A	C-0151 XSU1_CNV_V 0x834F	S-0111 HGA_POT_A 0x8246	F3																																																																																																																																																																																																																																																													
F3	A-0131 IMU_XB_Z3_TO 0x83C2	A-0133 IMU_YB_X3_TO 0x8297	A-0135 IMU_ZB_Y2_TO 0x83CA	A-0170 RWA_X_MTR_I 0x8240	A-0171 RWA_Y_MTR_I 0x8280	A-0172 RWA_Z_MTR_I 0x8300	A-0173 RWA_S_MTR_I 0x8380	A-0160 GYRO1_MTR_I 0x824B	A-0161 GYRO2_MTR_I 0x82CB	A-0162 GYRO3_MTR_I 0x83C0	A-0101 CSA_TRA+14_V 0x8344	A-0102 CSA_TRA+14_V 0x8249	A-0103 CSA_TRA+14_V 0x8343	A-0104 IMU_TCA_PR_V 0x8341	A-0105 SS1_DC_CNV_V 0x8341	A-0106 SS2_DC_CNV_V 0x8340	A-0107 IMU_TCA_BU_V 0x8340	A-0108 SS1_DC_CNV_V 0x8340	A-0109 SS2_DC_CNV_V 0x8340	A-0110 IMU_TCA_BU_V 0x8340	A-0111 SS1_DC_CNV_V 0x8340	A-0112 SS2_DC_CNV_V 0x8340	A-0113 IMU_TCA_BU_V 0x8340	A-0114 SS1_DC_CNV_V 0x8340	A-0115 SS2_DC_CNV_V 0x8340	A-0116 IMU_TCA_BU_V 0x8340	A-0117 SS1_DC_CNV_V 0x8340	A-0118 SS2_DC_CNV_V 0x8340	A-0119 IMU_TCA_BU_V 0x8340	A-0120 SS1_DC_CNV_V 0x8340	A-0121 SS2_DC_CNV_V 0x8340	A-0122 IMU_TCA_BU_V 0x8340	A-0123 SS1_DC_CNV_V 0x8340	A-0124 SS2_DC_CNV_V 0x8340	A-0125 IMU_TCA_BU_V 0x8340	A-0126 SS1_DC_CNV_V 0x8340	A-0127 SS2_DC_CNV_V 0x8340	A-0128 IMU_TCA_BU_V 0x8340	A-0129 SS1_DC_CNV_V 0x8340	A-0130 SS2_DC_CNV_V 0x8340	A-0131 IMU_TCA_BU_V 0x8340	A-0132 SS1_DC_CNV_V 0x8340	A-0133 SS2_DC_CNV_V 0x8340	A-0134 IMU_TCA_BU_V 0x8340	A-0135 SS1_DC_CNV_V 0x8340	A-0136 SS2_DC_CNV_V 0x8340	A-0137 IMU_TCA_BU_V 0x8340	A-0138 SS1_DC_CNV_V 0x8340	A-0139 SS2_DC_CNV_V 0x8340	A-0140 IMU_TCA_BU_V 0x8340	A-0141 SS1_DC_CNV_V 0x8340	A-0142 SS2_DC_CNV_V 0x8340	A-0143 IMU_TCA_BU_V 0x8340	A-0144 SS1_DC_CNV_V 0x8340	A-0145 SS2_DC_CNV_V 0x8340	A-0146 IMU_TCA_BU_V 0x8340	A-0147 SS1_DC_CNV_V 0x8340	A-0148 SS2_DC_CNV_V 0x8340	A-0149 IMU_TCA_BU_V 0x8340	A-0150 SS1_DC_CNV_V 0x8340	A-0151 SS2_DC_CNV_V 0x8340	A-0152 IMU_TCA_BU_V 0x8340	A-0153 SS1_DC_CNV_V 0x8340	A-0154 SS2_DC_CNV_V 0x8340	A-0155 IMU_TCA_BU_V 0x8340	A-0156 SS1_DC_CNV_V 0x8340	A-0157 SS2_DC_CNV_V 0x8340	A-0158 IMU_TCA_BU_V 0x8340	A-0159 SS1_DC_CNV_V 0x8340	A-0160 SS2_DC_CNV_V 0x8340	A-0161 IMU_TCA_BU_V 0x8340	A-0162 SS1_DC_CNV_V 0x8340	A-0163 SS2_DC_CNV_V 0x8340	A-0164 IMU_TCA_BU_V 0x8340	A-0165 SS1_DC_CNV_V 0x8340	A-0166 SS2_DC_CNV_V 0x8340	A-0167 IMU_TCA_BU_V 0x8340	A-0168 SS1_DC_CNV_V 0x8340	A-0169 SS2_DC_CNV_V 0x8340	A-0170 IMU_TCA_BU_V 0x8340	A-0171 SS1_DC_CNV_V 0x8340	A-0172 SS2_DC_CNV_V 0x8340	A-0173 IMU_TCA_BU_V 0x8340	A-0174 SS1_DC_CNV_V 0x8340	A-0175 SS2_DC_CNV_V 0x8340	A-0176 IMU_TCA_BU_V 0x8340	A-0177 SS1_DC_CNV_V 0x8340	A-0178 SS2_DC_CNV_V 0x8340	A-0179 IMU_TCA_BU_V 0x8340	A-0180 SS1_DC_CNV_V 0x8340	A-0181 SS2_DC_CNV_V 0x8340	A-0182 IMU_TCA_BU_V 0x8340	A-0183 SS1_DC_CNV_V 0x8340	A-0184 SS2_DC_CNV_V 0x8340	A-0185 IMU_TCA_BU_V 0x8340	A-0186 SS1_DC_CNV_V 0x8340	A-0187 SS2_DC_CNV_V 0x8340	A-0188 IMU_TCA_BU_V 0x8340	A-0189 SS1_DC_CNV_V 0x8340	A-0190 SS2_DC_CNV_V 0x8340	A-0191 IMU_TCA_BU_V 0x8340	A-0192 SS1_DC_CNV_V 0x8340	A-0193 SS2_DC_CNV_V 0x8340	A-0194 IMU_TCA_BU_V 0x8340	A-0195 SS1_DC_CNV_V 0x8340	A-0196 SS2_DC_CNV_V 0x8340	A-0197 IMU_TCA_BU_V 0x8340	A-0198 SS1_DC_CNV_V 0x8340	A-0199 SS2_DC_CNV_V 0x8340	A-0200 IMU_TCA_BU_V 0x8340	A-0201 SS1_DC_CNV_V 0x8340	A-0202 SS2_DC_CNV_V 0x8340	A-0203 IMU_TCA_BU_V 0x8340	A-0204 SS1_DC_CNV_V 0x8340	A-0205 SS2_DC_CNV_V 0x8340	A-0206 IMU_TCA_BU_V 0x8340	A-0207 SS1_DC_CNV_V 0x8340	A-0208 SS2_DC_CNV_V 0x8340	A-0209 IMU_TCA_BU_V 0x8340	A-0210 SS1_DC_CNV_V 0x8340	A-0211 SS2_DC_CNV_V 0x8340	A-0212 IMU_TCA_BU_V 0x8340	A-0213 SS1_DC_CNV_V 0x8340	A-0214 SS2_DC_CNV_V 0x8340	A-0215 IMU_TCA_BU_V 0x8340	A-0216 SS1_DC_CNV_V 0x8340	A-0217 SS2_DC_CNV_V 0x8340	A-0218 IMU_TCA_BU_V 0x8340	A-0219 SS1_DC_CNV_V 0x8340	A-0220 SS2_DC_CNV_V 0x8340	A-0221 IMU_TCA_BU_V 0x8340	A-0222 SS1_DC_CNV_V 0x8340	A-0223 SS2_DC_CNV_V 0x8340	A-0224 IMU_TCA_BU_V 0x8340	A-0225 SS1_DC_CNV_V 0x8340	A-0226 SS2_DC_CNV_V 0x8340	A-0227 IMU_TCA_BU_V 0x8340	A-0228 SS1_DC_CNV_V 0x8340	A-0229 SS2_DC_CNV_V 0x8340	A-0230 IMU_TCA_BU_V 0x8340	A-0231 SS1_DC_CNV_V 0x8340	A-0232 SS2_DC_CNV_V 0x8340	A-0233 IMU_TCA_BU_V 0x8340	A-0234 SS1_DC_CNV_V 0x8340	A-0235 SS2_DC_CNV_V 0x8340	A-0236 IMU_TCA_BU_V 0x8340	A-0237 SS1_DC_CNV_V 0x8340	A-0238 SS2_DC_CNV_V 0x8340	A-0239 IMU_TCA_BU_V 0x8340	A-0240 SS1_DC_CNV_V 0x8340	A-0241 SS2_DC_CNV_V 0x8340	A-0242 IMU_TCA_BU_V 0x8340	A-0243 SS1_DC_CNV_V 0x8340	A-0244 SS2_DC_CNV_V 0x8340	A-0245 IMU_TCA_BU_V 0x8340	A-0246 SS1_DC_CNV_V 0x8340	A-0247 SS2_DC_CNV_V 0x8340	A-0248 IMU_TCA_BU_V 0x8340	A-0249 SS1_DC_CNV_V 0x8340	A-0250 SS2_DC_CNV_V 0x8340	A-0251 IMU_TCA_BU_V 0x8340	A-0252 SS1_DC_CNV_V 0x8340	A-0253 SS2_DC_CNV_V 0x8340	A-0254 IMU_TCA_BU_V 0x8340	A-0255 SS1_DC_CNV_V 0x8340	A-0256 SS2_DC_CNV_V 0x8340	A-0257 IMU_TCA_BU_V 0x8340	A-0258 SS1_DC_CNV_V 0x8340	A-0259 SS2_DC_CNV_V 0x8340	A-0260 IMU_TCA_BU_V 0x8340	A-0261 SS1_DC_CNV_V 0x8340	A-0262 SS2_DC_CNV_V 0x8340	A-0263 IMU_TCA_BU_V 0x8340	A-0264 SS1_DC_CNV_V 0x8340	A-0265 SS2_DC_CNV_V 0x8340	A-0266 IMU_TCA_BU_V 0x8340	A-0267 SS1_DC_CNV_V 0x8340	A-0268 SS2_DC_CNV_V 0x8340	A-0269 IMU_TCA_BU_V 0x8340	A-0270 SS1_DC_CNV_V 0x8340	A-0271 SS2_DC_CNV_V 0x8340	A-0272 IMU_TCA_BU_V 0x8340	A-0273 SS1_DC_CNV_V 0x8340	A-0274 SS2_DC_CNV_V 0x8340	A-0275 IMU_TCA_BU_V 0x8340	A-0276 SS1_DC_CNV_V 0x8340	A-0277 SS2_DC_CNV_V 0x8340	A-0278 IMU_TCA_BU_V 0x8340	A-0279 SS1_DC_CNV_V 0x8340	A-0280 SS2_DC_CNV_V 0x8340	A-0281 IMU_TCA_BU_V 0x8340	A-0282 SS1_DC_CNV_V 0x8340	A-0283 SS2_DC_CNV_V 0x8340	A-0284 IMU_TCA_BU_V 0x8340	A-0285 SS1_DC_CNV_V 0x8340	A-0286 SS2_DC_CNV_V 0x8340	A-0287 IMU_TCA_BU_V 0x8340	A-0288 SS1_DC_CNV_V 0x8340	A-0289 SS2_DC_CNV_V 0x8340	A-0290 IMU_TCA_BU_V 0x8340	A-0291 SS1_DC_CNV_V 0x8340	A-0292 SS2_DC_CNV_V 0x8340	A-0293 IMU_TCA_BU_V 0x8340	A-0294 SS1_DC_CNV_V 0x8340	A-0295 SS2_DC_CNV_V 0x8340	A-0296 IMU_TCA_BU_V 0x8340	A-0297 SS1_DC_CNV_V 0x8340	A-0298 SS2_DC_CNV_V 0x8340	A-0299 IMU_TCA_BU_V 0x8340	A-0300 SS1_DC_CNV_V 0x8340	A-0301 SS2_DC_CNV_V 0x8340	A-0302 IMU_TCA_BU_V 0x8340	A-0303 SS1_DC_CNV_V 0x8340	A-0304 SS2_DC_CNV_V 0x8340	A-0305 IMU_TCA_BU_V 0x8340	A-0306 SS1_DC_CNV_V 0x8340	A-0307 SS2_DC_CNV_V 0x8340	A-0308 IMU_TCA_BU_V 0x8340	A-0309 SS1_DC_CNV_V 0x8340	A-0310 SS2_DC_CNV_V 0x8340	A-0311 IMU_TCA_BU_V 0x8340	A-0312 SS1_DC_CNV_V 0x8340	A-0313 SS2_DC_CNV_V 0x8340	A-0314 IMU_TCA_BU_V 0x8340	A-0315 SS1_DC_CNV_V 0x8340	A-0316 SS2_DC_CNV_V 0x8340	A-0317 IMU_TCA_BU_V 0x8340	A-0318 SS1_DC_CNV_V 0x8340	A-0319 SS2_DC_CNV_V 0x8340	A-0320 IMU_TCA_BU_V 0x8340	A-0321 SS1_DC_CNV_V 0x8340	A-0322 SS2_DC_CNV_V 0x8340	A-0323 IMU_TCA_BU_V 0x8340	A-0324 SS1_DC_CNV_V 0x8340	A-0325 SS2_DC_CNV_V 0x8340	A-0326 IMU_TCA_BU_V 0x8340	A-0327 SS1_DC_CNV_V 0x8340	A-0328 SS2_DC_CNV_V 0x8340	A-0329 IMU_TCA_BU_V 0x8340	A-0330 SS1_DC_CNV_V 0x8340	A-0331 SS2_DC_CNV_V 0x8340	A-0332 IMU_TCA_BU_V 0x8340	A-0333 SS1_DC_CNV_V 0x8340	A-0334 SS2_DC_CNV_V 0x8340	A-0335 IMU_TCA_BU_V 0x8340	A-0336 SS1_DC_CNV_V 0x8340	A-0337 SS2_DC_CNV_V 0x8340	A-0338 IMU_TCA_BU_V 0x8340	A-0339 SS1_DC_CNV_V 0x8340	A-0340 SS2_DC_CNV_V 0x8340	A-0341 IMU_TCA_BU_V 0x8340	A-0342 SS1_DC_CNV_V 0x8340	A-0343 SS2_DC_CNV_V 0x8340	A-0344 IMU_TCA_BU_V 0x8340	A-0345 SS1_DC_CNV_V 0x8340	A-0346 SS2_DC_CNV_V 0x8340	A-0347 IMU_TCA_BU_V 0x8340	A-0348 SS1_DC_CNV_V 0x8340	A-0349 SS2_DC_CNV_V 0x8340	A-0350 IMU_TCA_BU_V 0x8340	A-0351 SS1_DC_CNV_V 0x8340	A-0352 SS2_DC_CNV_V 0x8340	A-0353 IMU_TCA_BU_V 0x8340	A-0354 SS1_DC_CNV_V 0x8340	A-0355 SS2_DC_CNV_V 0x8340	A-0356 IMU_TCA_BU_V 0x8340	A-0357 SS1_DC_CNV_V 0x8340	A-0358 SS2_DC_CNV_V 0x8340	A-0359 IMU_TCA_BU_V 0x8340	A-0360 SS1_DC_CNV_V 0x8340	A-0361 SS2_DC_CNV_V 0x8340	A-0362 IMU_TCA_BU_V 0x8340	A-0363 SS1_DC_CNV_V 0x8340	A-0364 SS2_DC_CNV_V 0x8340	A-0365 IMU_TCA_BU_V 0x8340	A-0366 SS1_DC_CNV_V 0x8340	A-0367 SS2_DC_CNV_V 0x8340	A-0368 IMU_TCA_BU_V 0x8340	A-0369 SS1_DC_CNV_V 0x8340	A-0370 SS2_DC_CNV_V 0x8340	A-0371 IMU_TCA_BU_V 0x8340	A-0372 SS1_DC_CNV_V 0x8340	A-0373 SS2_DC_CNV_V 0x8340	A-0374 IMU_TCA_BU_V 0x8340	A-0375 SS1_DC_CNV_V 0x8340	A-0376 SS2_DC_CNV_V 0x8340	A-0377<br

OF ANALOG MISSION DEFAULT MAP EDF_A_MIS_000 (1 of 1)

byte-0	byte-1	byte-2	byte-3	byte-4	byte-5	byte-6	byte-7	byte-8	byte-9	byte-10	byte-11	byte-12	byte-13	byte-14	byte-15	byte-16	byte-17	byte-18	byte-19	byte-20	byte-21	byte-22	byte-23	byte-24	byte-25	byte-26	byte-27														
F0	A-0122 SS1_ATA_I 0x82C3	A-0123 SS2_ATA_I 0x8398	E-0130 SA_OUTPUT_I 0x82C9	E-0131 SA_Y_I 0x8323	E-0132 SA+Y_I 0x839B	E-0141 PSE+28_BUS_I 0x82B8	E-0142 PSE_PL_BUS_I 0x830B	P-0060 CNTpyro_A_ENA 0x8244	P-0062 CNTpyro_B_ENA 0x83C7	P-0064 MAPpyro_A_ENA 0x82AA	P-0072 PTCMpyro_B_ENA 0x8347	P-0073 PTCMpyro_B_ENA 0x82C6	E-0101 BAT1_HI_V 0x8247	E-0111 BAT2_HI_V 0x8230A	E-0105 BAT1_CHRG_I 0x8247	E-0106 BAT2_CHRG_I 0x838A	E-0115 BAT2_DCHG_I 0x83C8	T-0200 BAT1_T1 0x8270	T-0202 BAT2_T1 0x8236	A-0100 CSA14_V 0x824B	A-0101 CSA14_V 0x83C0	A-0102 CSA14_V 0x8342	A-0103 CSA14_V 0x8241	A-0136 IMU_DC_V 0x8290	A-0137 IMU_DC_V 0x8310	A-0138 IMU_DC_V 0x8290	A-0139 IMU_DC_V 0x8310														
F1	A-0130 IMU_XA_Z2_TO 0x82C	A-0131 IMU_XB_Z3_TO 0x83C2	A-0132 IMU_YA_X1_TO 0x83C4	A-0133 IMU_ZB_Y2_TO 0x8297	A-0134 IMU_ZA_Y1_TO 0x8348	A-0135 SA+Y_Jsc_I 0x82A3	A-0136 SA+Y_Voc_V 0x83CA	E-0133 SA+Y_Jsc_I 0x82A1	E-0134 SA+Y_Voc_V 0x83CD	E-0135 SA+Y_Sh_V 0x8393	E-0137 PSE+28_BUS_V 0x835F	E-0140 RF_ISOLTR2_T 0x83E	T-0311 S1_DC_CNV_V 0x8393	A-0120 S1_DC_CNV_V 0x8390	A-0121 IMU_TCA_PR_V 0x8341	A-0139 IMU_TCA_BU_V 0x8341	A-0140 MOT1_EX_RF 0x8312	L-0112 MOT1_RCV_I 0x83AC	L-0114 MOT1_RCV_I 0x830D	L-0114 MOT1_RCV_I 0x833C	F1																				
F2	A-0150 SPMTR_PH_A_V 0x830B	A-0151 SPMTR_PH_B_V 0x838B	A-0152 SPMTR_PH_C_V 0x82C0	A-0170 RWA_X_MTR_I 0x8280	A-0171 RWA_Z_MTR_I 0x8300	A-0172 RWA_Z_MTR_I 0x8380	A-0173 SA+Y_INR_F_T 0x8267	T-0210 T-0214	T-0216 T-0218	T-0304 T-0306	MOT1_AUX_T 0x826B	MOT1_VCO_T 0x8368	A-0141 IMU_BU_AC_V 0x8245	A-0142 IMU_PR_DC_V 0x83CC	L-0122 L-0123	F2																									
F3	A-0160 GYRO1_MTR_I 0x8344	A-0161 GYRO2_MTR_I 0x82CB	A-0162 GYRO3_MTR_I 0x83C5	A-0180 ACCEL_X 0x82C8	A-0181 ACCEL_Y 0x83C1	A-0182 ACCEL_Z 0x8248	L-0111 MOT1_RCV_AGC 0x8327	L-0112 MOT2_RCV_AGC 0x8285	L-0113 MOT2_RCV_SPE 0x8305	L-0123 MOT2_RCV_SPE 0x834F	L-0131 TWT1_HLX_I 0x82BD	L-0141 TWT2_HLX_I 0x82A9	T-0308 T-0309	E-0104 TWT1_VT_LIMIT 0x8293	E-0117 TWT1_CHRG_RT 0x8292	E-0114 TWT1_ANOD_V 0x8298	E-0112 TWT1_ANOD_V 0x8292	E-0113 TWT1_ANOD_V 0x8292	E-0200 USO_OVN_V 0x8226	C-0101 A_CAL1_1.28V 0x8239	F3																				
F4	A-0102 BAT1_LL_V 0x8292	A-0103 BAT1_HALF_V 0x8292	A-0104 BAT1_LL_V 0x8292	A-0105 C-0105 A_CAL1_3.84V 0x83A9	A-0106 C-0106 A_CAL1_3.84V 0x832F	A-0107 C-0107 A_CAL1_5.12V 0x832F	A-0108 C-0108 A_CAL1_5.12V 0x832F	A-0109 C-0109 A_CAL1_5.12V 0x832F	A-0110 C-0110 A_CAL2_5.26V 0x834C	A-0111 C-0111 A_CAL2_5.26V 0x834C	A-0112 C-0112 A_CAL2_5.26V 0x834C	A-0113 C-0113 A_CAL2_5.26V 0x834C	A-0114 C-0114 A_CAL2_5.26V 0x834C	A-0115 C-0115 A_CAL2_5.26V 0x834C	A-0116 C-0116 A_CAL2_5.26V 0x834C	A-0117 C-0117 A_CAL2_5.26V 0x834C	A-0118 C-0118 A_CAL2_5.26V 0x834C	A-0119 C-0119 A_CAL2_5.26V 0x834C	A-0120 C-0120 A_CAL2_5.26V 0x834C	A-0121 C-0121 A_CAL2_5.26V 0x834C	A-0122 C-0122 A_CAL2_5.26V 0x834C	A-0123 C-0123 A_CAL2_5.26V 0x834C	A-0124 C-0124 A_CAL2_5.26V 0x834C	A-0125 C-0125 A_CAL2_5.26V 0x834C	A-0126 C-0126 A_CAL2_5.26V 0x834C	A-0127 C-0127 A_CAL2_5.26V 0x834C	A-0128 C-0128 A_CAL2_5.26V 0x834C	A-0129 C-0129 A_CAL2_5.26V 0x834C	A-0130 C-0130 A_CAL2_5.26V 0x834C	A-0131 C-0131 A_CAL2_5.26V 0x834C	A-0132 C-0132 A_CAL2_5.26V 0x834C	A-0133 C-0133 A_CAL2_5.26V 0x834C	A-0134 C-0134 A_CAL2_5.26V 0x834C	A-0135 C-0135 A_CAL2_5.26V 0x834C	A-0136 C-0136 A_CAL2_5.26V 0x834C	A-0137 C-0137 A_CAL2_5.26V 0x834C	A-0138 C-0138 A_CAL2_5.26V 0x834C	F4			
F5	A-0108 BAT1_PRESS_1 0x8314	A-0109 BAT1_PRESS_2 0x82AB	A-0110 BAT1_PRESS_1 0x82AB	A-0111 BAT1_PRESS_2 0x82AB	A-0112 BAT2_HALF_V 0x8292	A-0113 USO_OVN_V 0x8226	A-0114 C-0114 A_CAL2_5.26V 0x834C	A-0115 C-0115 A_CAL2_5.26V 0x834C	A-0116 C-0116 A_CAL2_5.26V 0x834C	A-0117 C-0117 A_CAL2_5.26V 0x834C	A-0118 C-0118 A_CAL2_5.26V 0x834C	A-0119 C-0119 A_CAL2_5.26V 0x834C	A-0120 C-0120 A_CAL2_5.26V 0x834C	A-0121 C-0121 A_CAL2_5.26V 0x834C	A-0122 C-0122 A_CAL2_5.26V 0x834C	A-0123 C-0123 A_CAL2_5.26V 0x834C	A-0124 C-0124 A_CAL2_5.26V 0x834C	A-0125 C-0125 A_CAL2_5.26V 0x834C	A-0126 C-0126 A_CAL2_5.26V 0x834C	A-0127 C-0127 A_CAL2_5.26V 0x834C	A-0128 C-0128 A_CAL2_5.26V 0x834C	A-0129 C-0129 A_CAL2_5.26V 0x834C	A-0130 C-0130 A_CAL2_5.26V 0x834C	A-0131 C-0131 A_CAL2_5.26V 0x834C	A-0132 C-0132 A_CAL2_5.26V 0x834C	A-0133 C-0133 A_CAL2_5.26V 0x834C	A-0134 C-0134 A_CAL2_5.26V 0x834C	A-0135 C-0135 A_CAL2_5.26V 0x834C	A-0136 C-0136 A_CAL2_5.26V 0x834C	A-0137 C-0137 A_CAL2_5.26V 0x834C	A-0138 C-0138 A_CAL2_5.26V 0x834C	F5									
F6	A-0105 C-0105 A_CAL1_3.84V 0x83A9	A-0106 C-0106 A_CAL1_3.84V 0x832F	A-0107 C-0107 A_CAL1_5.12V 0x832F	A-0108 C-0108 A_CAL1_5.12V 0x832F	A-0109 C-0109 A_CAL1_5.12V 0x832F	A-0110 C-0110 A_CAL1_5.12V 0x832F	A-0111 C-0111 A_CAL1_5.12V 0x832F	A-0112 C-0112 A_CAL1_5.12V 0x832F	A-0113 C-0113 A_CAL1_5.12V 0x832F	A-0114 C-0114 A_CAL1_5.12V 0x832F	A-0115 C-0115 A_CAL1_5.12V 0x832F	A-0116 C-0116 A_CAL1_5.12V 0x832F	A-0117 C-0117 A_CAL1_5.12V 0x832F	A-0118 C-0118 A_CAL1_5.12V 0x832F	A-0119 C-0119 A_CAL1_5.12V 0x832F	A-0120 C-0120 A_CAL1_5.12V 0x832F	A-0121 C-0121 A_CAL1_5.12V 0x832F	A-0122 C-0122 A_CAL1_5.12V 0x832F	A-0123 C-0123 A_CAL1_5.12V 0x832F	A-0124 C-0124 A_CAL1_5.12V 0x832F	A-0125 C-0125 A_CAL1_5.12V 0x832F	A-0126 C-0126 A_CAL1_5.12V 0x832F	A-0127 C-0127 A_CAL1_5.12V 0x832F	A-0128 C-0128 A_CAL1_5.12V 0x832F	A-0129 C-0129 A_CAL1_5.12V 0x832F	A-0130 C-0130 A_CAL1_5.12V 0x832F	A-0131 C-0131 A_CAL1_5.12V 0x832F	A-0132 C-0132 A_CAL1_5.12V 0x832F	A-0133 C-0133 A_CAL1_5.12V 0x832F	A-0134 C-0134 A_CAL1_5.12V 0x832F	A-0135 C-0135 A_CAL1_5.12V 0x832F	A-0136 C-0136 A_CAL1_5.12V 0x832F	A-0137 C-0137 A_CAL1_5.12V 0x832F	A-0138 C-0138 A_CAL1_5.12V 0x832F	F6						
F7	A-0112 C-0112 A_CAL1_3.84V 0x83A9	A-0113 C-0113 A_CAL1_3.84V 0x832F	A-0114 C-0114 A_CAL1_3.84V 0x832F	A-0115 C-0115 A_CAL1_3.84V 0x832F	A-0116 C-0116 A_CAL1_3.84V 0x832F	A-0117 C-0117 A_CAL1_3.84V 0x832F	A-0118 C-0118 A_CAL1_3.84V 0x832F	A-0119 C-0119 A_CAL1_3.84V 0x832F	A-0120 C-0120 A_CAL1_3.84V 0x832F	A-0121 C-0121 A_CAL1_3.84V 0x832F	A-0122 C-0122 A_CAL1_3.84V 0x832F	A-0123 C-0123 A_CAL1_3.84V 0x832F	A-0124 C-0124 A_CAL1_3.84V 0x832F	A-0125 C-0125 A_CAL1_3.84V 0x832F	A-0126 C-0126 A_CAL1_3.84V 0x832F	A-0127 C-0127 A_CAL1_3.84V 0x832F	A-0128 C-0128 A_CAL1_3.84V 0x832F	A-0129 C-0129 A_CAL1_3.84V 0x832F	A-0130 C-0130 A_CAL1_3.84V 0x832F	A-0131 C-0131 A_CAL1_3.84V 0x832F	A-0132 C-0132 A_CAL1_3.84V 0x832F	A-0133 C-0133 A_CAL1_3.84V 0x832F	A-0134 C-0134 A_CAL1_3.84V 0x832F	A-0135 C-0135 A_CAL1_3.84V 0x832F	A-0136 C-0136 A_CAL1_3.84V 0x832F	A-0137 C-0137 A_CAL1_3.84V 0x832F	A-0138 C-0138 A_CAL1_3.84V 0x832F	A-0139 C-0139 A_CAL1_3.84V 0x832F	F7												
F8	A-0119 C-0119 A_CAL2_5.12V 0x832F	A-0120 C-0120 A_CAL2_5.12V 0x832F	A-0121 C-0121 A_CAL2_5.12V 0x832F	A-0122 C-0122 A_CAL2_5.12V 0x832F	A-0123 C-0123 A_CAL2_5.12V 0x832F	A-0124 C-0124 A_CAL2_5.12V 0x832F	A-0125 C-0125 A_CAL2_5.12V 0x832F	A-0126 C-0126 A_CAL2_5.12V 0x832F	A-0127 C-0127 A_CAL2_5.12V 0x832F	A-0128 C-0128 A_CAL2_5.12V 0x832F	A-0129 C-0129 A_CAL2_5.12V 0x832F	A-0130 C-0130 A_CAL2_5.12V 0x832F	A-0131 C-0131 A_CAL2_5.12V 0x832F	A-0132 C-0132 A_CAL2_5.12V 0x832F	A-0133 C-0133 A_CAL2_5.12V 0x832F	A-0134 C-0134 A_CAL2_5.12V 0x832F	A-0135 C-0135 A_CAL2_5.12V 0x832F	A-0136 C-0136 A_CAL2_5.12V 0x832F	A-0137 C-0137 A_CAL2_5.12V 0x832F	A-0138 C-0138 A_CAL2_5.12V 0x832F	A-0139 C-0139 A_CAL2_5.12V 0x832F	A-0140 C-0140 A_CAL2_5.12V 0x832F	A-0141 C-0141 A_CAL2_5.12V 0x832F	A-0142 C-0142 A_CAL2_5.12V 0x832F	A-0143 C-0143 A_CAL2_5.12V 0x832F	A-0144 C-0144 A_CAL2_5.12V 0x832F	A-0145 C-0145 A_CAL2_5.12V 0x832F	A-0146 C-0146 A_CAL2_5.12V 0x832F	A-0147 C-0147 A_CAL2_5.12V 0x832F	A-0148 C-0148 A_CAL2_5.12V 0x832F	A-0149 C-0149 A_CAL2_5.12V 0x832F	A-0150 C-0150 A_CAL2_5.12V 0x832F	A-0151 C-0151 A_CAL2_5.12V 0x832F	A-0152 C-0152 A_CAL2_5.12V 0x832F	A-0153 C-0153 A_CAL2_5.12V 0x832F	A-0154 C-0154 A_CAL2_5.12V 0x832F	A-0155 C-0155 A_CAL2_5.12V 0x832F	A-0156 C-0156 A_CAL2_5.12V 0x832F	A-0157 C-0157 A_CAL2_5.12V 0x832F	A-0158 C-0158 A_CAL2_5.12V 0x832F	F8
F9	A-0141 C-0141 A_CAL2_5.12V 0x832F	A-0142 C-0142 A_CAL2_5.12V 0x832F	A-0143 C-0143 A_CAL2_5.12V 0x832F	A-0144 C-0144 A_CAL2_5.12V 0x832F	A-0145 C-0145 A_CAL2_5.12V 0x832F	A-0146 C-0146 A_CAL2_5.12V 0x832F	A-0147 C-0147 A_CAL2_5.12V 0x832F	A-0148 C-0148 A_CAL2_5.12V 0x832F	A-0149 C-0149 A_CAL2_5.12V 0x832F	A-0150 C-0150 A_CAL2_5.12V 0x832F	A-0151 C-0151 A_CAL2_5.12V 0x832																														

Appendix D

SCP Telemetry Indices

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Appendix D1

SCP Telemetry Index (By Channel-ID)

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Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0000	AACS_STATE	ATTITUDE'CNTRL'STATE	AACS2'GLOBAL'CPL	AACS	STATUS	4	12	
F-0001	ACC_BIAS_-X	CAL'ACC'BIAS(1)	MANUVR'VARSCPL	AACS	SIGNED	16	0	
F-0002	ACC_BIAS_-Y	CAL'ACC'BIAS(2)	MANUVR'VARSCPL	AACS	SIGNED	16	0	
F-0003	ACC_BIAS_+Z	CAL'ACC'BIAS(0)	MANUVR'VARSCPL	AACS	SIGNED	16	0	
F-0004	ACC_BIAS_+S	CAL'ACC'BIAS(3)	MANUVR'VARSCPL	AACS	SIGNED	16	0	
F-0005	ATT_ENABLES	ATT'ENABS	AACS2'GLOBAL'PRESET	AACS	DIGITAL	16	0	F-0005
F-0006	BIAS_CNVG_X	BIAS'STATUS	STAREXCPL	AACS	DIGITAL	16	0	
F-0007	BIAS_CNVG_Y	BIAS'STATUS	STAREXCPL	AACS	DIGITAL	16	0	
F-0008	BIAS_CNVG_Z	BIAS'STATUS	STAREXCPL	AACS	DIGITAL	16	0	
F-0009	ATT_STAT_NEW	NEW'AACS'STATUS	AACS2'GLOBAL'PRESET	AACS	DIGITAL	16	0	F-0009
F-0010	COVAR_11(0)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0011	COVAR_11(1)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0012	COVAR_11(2)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0013	COVAR_11(3)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0014	COVAR_11(4)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0015	COVAR_11(5)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0016	COVAR_11(6)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0017	COVAR_11(7)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0018	COVAR_11(8)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0020	COVAR_12(0)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0021	COVAR_12(1)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0022	COVAR_12(2)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0023	COVAR_12(3)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0024	COVAR_12(4)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0025	COVAR_12(5)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0026	COVAR_12(6)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0027	COVAR_12(7)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0028	COVAR_12(8)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0030	COVAR_22(0)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0031	COVAR_22(1)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0032	COVAR_22(2)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0033	COVAR_22(3)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0034	COVAR_22(4)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0035	COVAR_22(5)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0036	COVAR_22(6)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0037	COVAR_22(7)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0038	COVAR_22(8)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0040	CSA_AS_1	TELEM'CSA(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0041	CSA_AS_2	TELEM'CSA(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0042	CSA_AS_3	TELEM'CSA(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0043	CSA_AS_4	TELEM'CSA(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0044	CSA_AS_5	TELEM'CSA(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0045	CSA_AS_6	TELEM'CSA(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0046	CSA_AS_7	TELEM'CSA(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0047	CSA_AS_8	TELEM'CSA(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0048	CSA_AS_9	TELEM'CSA(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0049	CSA_AS_10	TELEM'CSA(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0051	CSAwdNONZERO	CSAWRDNZ	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0055	CT_CNTRL_ST	CONTROL'STATE'COUNT	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0056	CT_MAP_LOST	MAP'LOST'COUNT	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0057	CT_SUN_BADCK	BAD'SUN'CHECK'COUNT	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0060	DELTAV_DUR	TOTAL'MANUVR'DURATION	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0061	DELTAV_X	TOTAL'DELTA'V(0)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0062	DELTAV_Y	TOTAL'DELTA'V(1)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0063	DELTAV_Z	TOTAL'DELTA'V(2)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0065	DOTPROD_MULT	DOT'PROD'MULT	STAREX'CPL	AACS	SIGNED	16	0	
F-0070	EPH_ANG_INCL	EPHEM'ANGLE(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0071	EPH_ANG_NODE	EPHEM'ANGLE(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0072	EPH_ANG_ORBT	EPHEM'ANGLE(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0074	EPH_EARTH_BX	EPHEM'EARTH'B'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0075	EPH_EARTH_BY	EPHEM'EARTH'B'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0076	EPH_EARTH_BZ	EPHEM'EARTH'B'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0077	EPH_EARTH_AX	EPHEM'EARTH'I'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0078	EPH_EARTH_AY	EPHEM'EARTH'I'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0079	EPH_EARTH_AZ	EPHEM'EARTH'I'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0080	EPH_PITCH	EPHEM'PITCH'CORRECTION	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0085	EPH_SUN_BX	EPHEM'SUN'B'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0086	EPH_SUN_BY	EPHEM'SUN'B'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0087	EPH_SUN_BZ	EPHEM'SUN'B'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0090	EPH_SUN_AX	EPHEM'SUN'I'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0091	EPH_SUN_AY	EPHEM'SUN'I'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0092	EPH_SUN_AZ	EPHEM'SUN'I'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0094	EQ_CROSS	EQCRTIME'TO'NODE	AACS2'EPHEM'CPL	AACS	UNSIGNED	16	0	
F-0100	FILT_SUN_X	FILT'SUN(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0101	FILT_SUN_Y	FILT'SUN(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0102	FILT_SUN_Z	FILT'SUN(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0105	GYR_BL_EST_X	GYRO'BIAS'EST(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0106	GYR_BL_EST_Y	GYRO'BIAS'EST(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0107	GYR_BL_EST_Z	GYRO'BIAS'EST(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0110	GY_X1_X3_1	TELEM'GYRO'X1(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0111	GY_X1_X3_2	TELEM'GYRO'X1(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0112	GY_X1_X3_3	TELEM'GYRO'X1(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0113	GY_X1_X3_4	TELEM'GYRO'X1(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0114	GY_X1_X3_5	TELEM'GYRO'X1(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0115	GY_X1_X3_6	TELEM'GYRO'X1(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0116	GY_X1_X3_7	TELEM'GYRO'X1(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0117	GY_X1_X3_8	TELEM'GYRO'X1(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0118	GY_X1_X3_9	TELEM'GYRO'X1(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0119	GY_X1_X3_10	TELEM'GYRO'X1(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0120	GY_X3_AX_1	TELEM'GYRO'X3(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0121	GY_X3_AX_2	TELEM'GYRO'X3(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0122	GY_X3_AX_3	TELEM'GYRO'X3(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0123	GY_X3_AX_4	TELEM'GYRO'X3(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0124	GY_X3_AX_5	TELEM'GYRO'X3(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0125	GY_X3_AX_6	TELEM'GYRO'X3(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0126	GY_X3_AX_7	TELEM'GYRO'X3(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0127	GY_X3_AX_8	TELEM'GYRO'X3(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0128	GY_X3_AX_9	TELEM'GYRO'X3(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0129	GY_X3_AX_10	TELEM'GYRO'X3(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0130	GY_Y1_Y2_1	TELEM'GYRO'Y1(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0131	GY_Y1_Y2_2	TELEM'GYRO'Y1(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0132	GY_Y1_Y2_3	TELEM'GYRO'Y1(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0133	GY_Y1_Y2_4	TELEM'GYRO'Y1(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0134	GY_Y1_Y2_5	TELEM'GYRO'Y1(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0135	GY_Y1_Y2_6	TELEM'GYRO'Y1(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0136	GY_Y1_Y2_7	TELEM'GYRO'Y1(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0137	GY_Y1_Y2_8	TELEM'GYRO'Y1(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0138	GY_Y1_Y2_9	TELEM'GYRO'Y1(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0139	GY_Y1_Y2_10	TELEM'GYRO'Y1(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0140	GY_Y2_AY_1	TELEM'GYRO'Y2(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0141	GY_Y2_AY_2	TELEM'GYRO'Y2(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0142	GY_Y2_AY_3	TELEM'GYRO'Y2(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0143	GY_Y2_AY_4	TELEM'GYRO'Y2(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0144	GY_Y2_AY_5	TELEM'GYRO'Y2(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0145	GY_Y2_AY_6	TELEM'GYRO'Y2(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0146	GY_Y2_AY_7	TELEM'GYRO'Y2(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0147	GY_Y2_AY_8	TELEM'GYRO'Y2(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0148	GY_Y2_AY_9	TELEM'GYRO'Y2(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0149	GY_Y2_AY_10	TELEM'GYRO'Y2(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0150	GY_Z2_Z3_1	TELEM'GYRO'Z2(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0151	GY_Z2_Z3_2	TELEM'GYRO'Z2(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0152	GY_Z2_Z3_3	TELEM'GYRO'Z2(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0153	GY_Z2_Z3_4	TELEM'GYRO'Z2(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0154	GY_Z2_Z3_5	TELEM'GYRO'Z2(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0155	GY_Z2_Z3_6	TELEM'GYRO'Z2(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0156	GY_Z2_Z3_7	TELEM'GYRO'Z2(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0157	GY_Z2_Z3_8	TELEM'GYRO'Z2(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0158	GY_Z2_Z3_9	TELEM'GYRO'Z2(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0159	GY_Z2_Z3_10	TELEM'GYRO'Z2(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0160	GY_Z3_AZ_1	TELEM'GYRO'Z3(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0161	GY_Z3_AZ_2	TELEM'GYRO'Z3(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0162	GY_Z3_AZ_3	TELEM'GYRO'Z3(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0163	GY_Z3_AZ_4	TELEM'GYRO'Z3(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0164	GY_Z3_AZ_5	TELEM'GYRO'Z3(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0165	GY_Z3_AZ_6	TELEM'GYRO'Z3(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0166	GY_Z3_AZ_7	TELEM'GYRO'Z3(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0167	GY_Z3_AZ_8	TELEM'GYRO'Z3(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0168	GY_Z3_AZ_9	TELEM'GYRO'Z3(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0169	GY_Z3_AZ_10	TELEM'GYRO'Z3(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0170	GYbiasCOR_X	B'GYRO'BIAS'CORR(0)	STAREXCPL	AACS	SIGNED	16	0	
F-0171	GYbiasCOR_Y	B'GYRO'BIAS'CORR(1)	STAREXCPL	AACS	SIGNED	16	0	
F-0172	GYbiasCOR_Z	B'GYRO'BIAS'CORR(2)	STAREXCPL	AACS	SIGNED	16	0	
F-0180	GYbiasEST_XA	ST'ST'BIASES(0)	STAREXCPL	AACS	SIGNED	16	0	
F-0181	GYbiasEST_XB	ST'ST'BIASES(3)	STAREXCPL	AACS	SIGNED	16	0	
F-0182	GYbiasEST YA	ST'ST'BIASES(1)	STAREXCPL	AACS	SIGNED	16	0	
F-0183	GYbiasEST_YB	ST'ST'BIASES(4)	STAREXCPL	AACS	SIGNED	16	0	
F-0184	GYbiasEST_ZA	ST'ST'BIASES(2)	STAREXCPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0185	GYbiasEST_ZB	ST'ST'BIASES(5)	STAREX'CPL	AACS	SIGNED	16	0	
F-0190	HGA_AZ_ANG	HGA'AZI'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0191	HGA_AZ_CMD	HGA'AZI'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0192	HGA_AZ_POS	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0193	HGA_AZ_TRG	HGA'AZI'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0194	HGA_CNTRL_ST	HGA'CONTROL'STATUS	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0195	HGA_EL_ANG	HGA'ELE'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0196	HGA_EL_CMD	HGA'ELE'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0197	HGA_EL_POS	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0198	HGA_EL_TRG	HGA'ELE'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0200	HGA_STATS	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0200
F-0201	HGA_TIMEOUT	HGA'SIB'TIMEOUT	CYCEEXEC'CPL	AACS	STATUS	4	12	
F-0205	IMU_CHK_FROZ	IMU'FROZEN'CHK'ENABLED	AACS10'PRESET	AACS	STATUS	1	0	
F-0206	IMU_CHK_STAT	IMU'STATUS'CHK'ENABLED	AACS10'PRESET	AACS	STATUS	1	0	
F-0210	IMU_ST_WD1	TELEM'IMU'STATUS	CYCEEXEC'CPL	AACS	DIGITAL	16	0	F-0210
F-0211	IMU_ST_WD2	TELEM'IMU'STATUS(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0212	IMU_ST_WD3	TELEM'IMU'STATUS(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0213	IMU_ST_WD4	TELEM'IMU'STATUS(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0214	IMU_ST_WD5	TELEM'IMU'STATUS(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0215	IMU_ST_WD6	TELEM'IMU'STATUS(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0216	IMU_ST_WD7	TELEM'IMU'STATUS(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0217	IMU_ST_WD8	TELEM'IMU'STATUS(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0218	IMU_ST_WD9	TELEM'IMU'STATUS(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0219	IMU_ST_WD10	TELEM'IMU'STATUS(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0220	IMUstatMASK	IMU'STATUS'WORD'MASK	AACS10'PRESET	AACS	DIGITAL	16	0	
F-0223	ISH_slewRATE	ISH'CNTRL'PARAMS	AACS2'MISC'CNTRL'PRESET	AACS	SIGNED	16	0	
F-0227	MANUVR_FLAG	MANUVR'FLAGS	MANUVR'VARS'CPL	AACS	DIGITAL	16	0	
F-0228	MANUVR_STATE	MANUVR'STATE	MANUVR'VARS'CPL	AACS	STATUS	4	12	
F-0231	MHSA_A-S_Q1	MHSA'A'MIN'S'DATA(0)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0232	MHSA_A-S_Q2	MHSA'A'MIN'S'DATA(1)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0233	MHSA_A-S_Q3	MHSA'A'MIN'S'DATA(2)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0234	MHSA_A-S_Q4	MHSA'A'MIN'S'DATA(3)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0235	MHSA_B-S_Q1	MHSA'B'MIN'S'DATA(0)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0236	MHSA_B-S_Q2	MHSA'B'MIN'S'DATA(1)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0237	MHSA_B-S_Q3	MHSA'B'MIN'S'DATA(2)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0238	MHSA_B-S_Q4	MHSA'B'MIN'S'DATA(3)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0241	MHSA_DETA_Q1	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0242	MHSA_DETA_Q2	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0243	MHSA_DETA_Q3	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0244	MHSA_DETA_Q4	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0245	MHSA_DETB_Q1	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0246	MHSA_DETB_Q2	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0247	MHSA_DETB_Q3	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0248	MHSA_DETB_Q4	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0251	MHSA_DETS_Q1	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0252	MHSA_DETS_Q2	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0253	MHSA_DETS_Q3	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0254	MHSA_DETS_Q4	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0260	MHSA_PITCH	PITCHERROR	AACS2'MHSA'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0261	MHSA_ROLL	ROLL'ERROR	AACS2'MHSA'CPL	AACS	SIGNED	16	0	
F-0262	MHSApitchC11	PITCH'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0263	MHSApitchC22	PITCH'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0264	MHSArollC11	ROLL'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0265	MHSArollC22	ROLL'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0266	MHSA_QD_BAD	QUAD'DATA'BAD	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	F-0266
F-0267	MHSA_QD_VIEW	QUAD'VIEWSPACE	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	F-0267
F-0268	MOI_STATUS	MOI'STATE	MANUVR'VARS'CPL	AACS	STATUS	4	12	
F-0270	MOM_DYAD_0	INERTIA'DYADIC(0)	AACS2'MOMUNL'PRESET	AACS	SIGNED	16	0	
F-0271	MOM_DYAD_4	INERTIA'DYADIC(4)	AACS2'MOMUNL'PRESET	AACS	SIGNED	16	0	
F-0272	MOM_DYAD_8	INERTIA'DYADIC(8)	AACS2'MOMUNL'PRESET	AACS	SIGNED	16	0	
F-0274	MOM_EMERG_WT	EM'THRUSTER'WARM'UPTIME	AACS2'MOMUNL'PRESET	AACS	UNSIGNED	16	0	
F-0276	MOM_PRESETS	MOM'UNL'ENABLE	AACS2'MOMUNL'PRESET	AACS	DIGITAL	16	0	F-0276
F-0277	MOM_UNL_STAT	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	DIGITAL	16	0	F-0277
F-0278	MOM_WARMUP_T	THRUSTER'WARM'UPTIME	AACS2'MOMUNL'PRESET	AACS	UNSIGNED	16	0	
F-0280	O_NORMAL_0	O'NORMAL(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0281	O_NORMAL_1	O'NORMAL(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0282	O_NORMAL_2	O'NORMAL(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0283	PACK_ATT	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0283
F-0287	PID_INT_X	PID'INT'TERM(0)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0288	PID_INT_Y	PID'INT'TERM(1)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0289	PID_INT_Z	PID'INT'TERM(2)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0290	POS_ERR_X	POS'ERR(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0291	POS_ERR_Y	POS'ERR(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0292	POS_ERR_Z	POS'ERR(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0293	POS_INTELL_X	POS'SUM(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0294	POS_INTELL_Y	POSSUM(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0295	POS_INTELL_Z	POSSUM(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0297	PROP_SUN_X	PROP'SUN(0)	AACS2'CPL	AACS	SIGNED	16	0	
F-0298	PROP_SUN_Y	PROP'SUN(1)	AACS2'CPL	AACS	SIGNED	16	0	
F-0299	PROP_SUN_Z	PROP'SUN(2)	AACS2'CPL	AACS	SIGNED	16	0	
F-0301	QUAT_A2B_1	QUAT'B'FROM'A(0)	AACS2'EPEHM'CPL	AACS	SIGNED	16	0	
F-0302	QUAT_A2B_2	QUAT'B'FROM'A(1)	AACS2'EPEHM'CPL	AACS	SIGNED	16	0	
F-0303	QUAT_A2B_3	QUAT'B'FROM'A(2)	AACS2'EPEHM'CPL	AACS	SIGNED	16	0	
F-0305	QUAT_CORR_1	Q'B'FROM'E'CORR'FOR'A10(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0306	QUAT_CORR_2	Q'B'FROM'E'CORR'FOR'A10(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0307	QUAT_CORR_3	Q'B'FROM'E'CORR'FOR'A10(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0308	QUAT_CORR_4	Q'B'FROM'E'CORR'FOR'A10(3)	STAREX'CPL	AACS	SIGNED	16	0	
F-0311	QUAT_E2L_1	QTRN'L'FROM'E(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0312	QUAT_E2L_2	QTRN'L'FROM'E(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0313	QUAT_E2L_3	QTRN'L'FROM'E(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0314	QUAT_E2L_4	QTRN'L'FROM'E(3)	STAREX'CPL	AACS	SIGNED	16	0	
F-0315	QUAT_F_I2B_1	TLM'QTRN'B'FROM'E(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0316	QUAT_F_I2B_2	TLM'QTRN'B'FROM'E(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0317	QUAT_F_I2B_3	TLM'QTRN'B'FROM'E(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0318	QUAT_F_I2B_4	TLM'QTRN'B'FROM'E(3)	AACS10'CPL	AACS	SIGNED	16	0	
F-0321	QUAT_I2B_1	QUAT'B'FROM'I'BU(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0322	QUAT_I2B_2	QUAT'B'FROM'I'BU(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0323	QUAT_I2B_3	QUAT'B'FROM'I'BU(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0324	QUAT_I2B_4	QUAT'B'FROM'I'BU(3)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0327	RTEsmRAWBD_X	RAW'BODY'RATES(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0328	RTEsmRAWBD_Y	RAW'BODY'RATES(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0329	RTEsmRAWBD_Z	RAW'BODY'RATES(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0330	RTE_CMD_X	COM'RATE	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0331	RTE_CMD_Y	COM'RATE	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0332	RTE_CMD_Z	COM'RATE	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0333	RTE_FLTBODY_X	TLM'FIL'BODY'RATES(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0334	RTE_FLTBODY_Y	TLM'FIL'BODY'RATES(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0335	RTE_FLTBODY_Z	TLM'FIL'BODY'RATES(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0336	RTE_INTERR_X	RATE'SUM(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0337	RTE_INTERR_Y	RATE'SUM(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0338	RTE_INTERR_Z	RATE'SUM(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0339	RTE_RAWBOD_X	RAW'BODY'RATES(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0340	RTE_RAWBOD_Y	RAW'BODY'RATES(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0341	RTE_RAWBOD_Z	RAW'BODY'RATES(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0342	PIDTRQ_X	TORQ(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0343	PIDTRQ_Y	TORQ(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0344	PIDTRQ_Z	TORQ(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0345	RWA_RAW_X	RWA'RAW'WORD(0)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0345
F-0346	RWA_RAW_Y	RWA'RAW'WORD(1)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0346
F-0347	RWA_RAW_Z	RWA'RAW'WORD(2)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0347
F-0348	RWA_RAW_S	RWA'RAW'WORD(3)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0348
F-0350	RWA_SPD_S	WHL'SPD(3)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0351	RWA_SPD_X	WHL'SPD(0)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0352	RWA_SPD_Y	WHL'SPD(1)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0353	RWA_SPD_Z	WHL'SPD(2)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0355	RWA_WHLTRQ_S	WHL'TORQ(3)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0356	RWA_WHLTRQ_X	WHL'TORQ(0)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0357	RWA_WHLTRQ_Y	WHL'TORQ(1)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0358	RWA_WHLTRQ_Z	WHL'TORQ(2)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0360	SAM_AZ_ANG	SAM'AZI'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0361	SAM_AZ_CMD	SAM'AZI'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0362	SAM_AZ_POS	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0363	SAM_AZ_TRG	SAM'AZI'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0365	SAM_BMTRX_0	MTRX'B'FROM'SAM(0)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0366	SAM_BMTRX_1	MTRX'B'FROM'SAM(1)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0367	SAM_BMTRX_2	MTRX'B'FROM'SAM(2)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0368	SAM_BMTRX_3	MTRX'B'FROM'SAM(3)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0369	SAM_BMTRX_4	MTRX'B'FROM'SAM(4)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0370	SAM_BMTRX_5	MTRX'B'FROM'SAM(5)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0371	SAM_BMTRX_6	MTRX'B'FROM'SAM(6)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0372	SAM_BMTRX_7	MTRX'B'FROM'SAM(7)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0373	SAM_BMTRX_8	MTRX'B'FROM'SAM(8)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0375	SAM_CNTRL_ST	SAM'CONTROL'STATUS	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0377	SAM_EL_ANG	SAMELE'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0378	SAM_EL_CMD	SAMELE'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0379	SAM_EL_POS	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0380	SAM_EL_TRG	SAMELE'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0381	SAM_NORM_X	SAM'NORMAL(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0382	SAM_NORM_Y	SAM'NORMAL(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0383	SAM_NORM_Z	SAM'NORMAL(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0385	SAM_STATS	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0385
F-0388	SAM_TIMEOUT	SAMSIBTIMEOUT	CYCEXECCPL	AACS	STATUS	4	12	
F-0390	SAP_AZ_ANG	SAP'AZI'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0391	SAP_AZ_CMD	SAP'AZI'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0392	SAP_AZ_POS	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0393	SAP_AZ_TRG	SAP'AZI'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0395	SAP_BMTRX_0	MTRXB'FROM'SAP(0)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0396	SAP_BMTRX_1	MTRXB'FROM'SAP(1)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0397	SAP_BMTRX_2	MTRXB'FROM'SAP(2)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0398	SAP_BMTRX_3	MTRXB'FROM'SAP(3)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0399	SAP_BMTRX_4	MTRXB'FROM'SAP(4)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0400	SAP_BMTRX_5	MTRXB'FROM'SAP(5)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0401	SAP_BMTRX_6	MTRXB'FROM'SAP(6)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0402	SAP_BMTRX_7	MTRXB'FROM'SAP(7)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0403	SAP_BMTRX_8	MTRXB'FROM'SAP(8)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0405	SAP_CNTRL_ST	SAP'CONTROL'STATUS	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0407	SAP_EL_ANG	SAP'ELE'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0408	SAP_EL_CMD	SAP'ELE'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0409	SAP_EL_POS	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0410	SAP_EL_TRG	SAP'ELE'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0411	SAP_NORM_X	SAP'NORMAL(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0412	SAP_NORM_Y	SAP'NORMAL(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0413	SAP_NORM_Z	SAP'NORMAL(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0415	SAP_STATS	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0415
F-0418	SAP_TIMEOUT	SAPSIB'TIMEOUT	CYCEXECCPL	AACS	STATUS	4	12	
F-0420	SELT_BRATE_X	BODY'RATE(0)	SELTS'CPL	AACS	SIGNED	16	0	
F-0421	SELT_BRATE_Y	BODY'RATE(1)	SELTS'CPL	AACS	SIGNED	16	0	
F-0422	SELT_BRATE_Z	BODY'RATE(2)	SELTS'CPL	AACS	SIGNED	16	0	
F-0423	SELT_DYINV0	INV'INERTIA'DYADIC(0)	SELTS'PRESET	AACS	SIGNED	16	0	
F-0424	SELT_DYINV4	INV'INERTIA'DYADIC(4)	SELTS'PRESET	AACS	SIGNED	16	0	
F-0425	SELT_DYINV8	INV'INERTIA'DYADIC(8)	SELTS'PRESET	AACS	SIGNED	16	0	
F-0426	SELT_MHSATS	MHSA'TEST'SET'ON	SELTS'PRESET	AACS	DIGITAL	16	0	
F-0427	SELT_PTCH_ER	SELTS'PITCH	SELTS'CPL	AACS	SIGNED	16	0	
F-0428	SELT_Q_A2B_1	QUAT'BFROMA(0)	SELTS'CPL	AACS	SIGNED	16	0	
F-0429	SELT_Q_A2B_2	QUAT'BFROMA(1)	SELTS'CPL	AACS	SIGNED	16	0	
F-0430	SELT_Q_A2B_3	QUAT'BFROMA(2)	SELTS'CPL	AACS	SIGNED	16	0	
F-0431	SELT_Q_R2B_1	QUAT'BFROMR(0)	SELTS'CPL	AACS	SIGNED	16	0	
F-0432	SELT_Q_R2B_2	QUAT'BFROMR(1)	SELTS'CPL	AACS	SIGNED	16	0	
F-0433	SELT_Q_R2B_3	QUAT'BFROMR(2)	SELTS'CPL	AACS	SIGNED	16	0	
F-0434	SELT_Q_R2B_4	QUAT'BFROMR(3)	SELTS'CPL	AACS	SIGNED	16	0	
F-0435	SELT_ROLL_ER	SELTS'ROLL	SELTS'CPL	AACS	SIGNED	16	0	
F-0436	SELT_YAW_ER	SELTS'YAW	SELTS'CPL	AACS	SIGNED	16	0	
F-0438	SSA_DOT_PRD	SSA'VEC'DOT'PRDCT	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0439	SSA_PSUN_DIR	PROP'SUN'DIR	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0440	SSA_RAW_RET	TELEM'RETICLE	CYCEXECCPL	AACS	DIGITAL	16	0	F-0440
F-0442	SSA_RAW_DET	TELEM'NEW'SSA'STATUS	CYCEXECCPL	AACS	DIGITAL	16	0	F-0442

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0444	SSA_STATUS	SSA'STATUS	AACS2'SSA'CPL	AACS	STATUS	4	12	
F-0446	SSA_SUNHDF_X	RAW'SUN'HEAD'FRAME(0)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0447	SSA_SUNHDF_Y	RAW'SUN'HEAD'FRAME(1)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0448	STIME	STIME	STAREX'CPL	AACS	SIGNED	16	0	
F-0450	STRX_CMRESET	CUM'SISRESETCNT	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0451	STRX_HIRATIO	HIGHESTRATIO	STAREX'CPL	AACS	SIGNED	16	0	
F-0452	STRX_IDTRNNO	NUM'IDENTTRANS	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0454	STRX_MAXBIN	MAXBIN	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0455	STRX_MULSTAR	CONS'MULTCAND	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0456	STRX_NEXTBIN	NEXBIN	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0457	STRX_PULSECT	PULSE'SLIT'COUNT	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0458	STRX_SLIT_ID	SLIT'ID	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0459	STRX_STAR_ID	STAR'ID'NO	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0460	STRX_STATE	STAREX'STATE	STAREX'CPL	AACS	STATUS	4	12	
F-0461	STRX_S_RESET	SIS'RESETCOUNT	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0462	STRX_UNIDSTR	CONS'UNIDTRANS	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0463	STRX_VALTRNS	NUM'VALIDTRANS	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0464	STRX_WORD	STAREX'STATUS	STAREX'CPL	AACS	DIGITAL	16	0	
F-0470	SUNVEC_RAW_X	RAW'SUN'VECTOR(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0471	SUNVEC_RAW_Y	RAW'SUN'VECTOR(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0472	SUNVEC_RAW_Z	RAW'SUN'VECTOR(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0475	SUN_CLOCK	SUN'CLOCK'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0476	SUN_SUBMODE	SUNCONTROL'SUBMODE	AACS2'SUNCNTRL'CPL	AACS	STATUS	4	12	
F-0477	SUN_SUBM_SM	SUN'CONTROL'SUBMODE	SM'AACS2'CPL	AACS	STATUS	4	12	
F-0480	SYST_MOM_X	SYSMOM	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0481	SYST_MOM_Y	SYSMOM	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0482	SYST_MOM_Z	SYSMOM	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0490	STRX_ATGAINX	S'ATT'GAIN(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0491	STRX_ATGAINY	S'ATT'GAIN(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0492	STRX_ATGAINZ	S'ATT'GAIN(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0493	S_ATT_PROD_0	S'ATT'PROD(0)		AACS	SIGNED	16	0	
F-0495	STRX_BSGAINX	S'BIAS'GAIN(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0496	STRX_BSGAINY	S'BIAS'GAIN(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0497	STRX_BSGAINZ	S'BIAS'GAIN(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0498	S_BIAS_PROD0	S'BIAS'PROD(0)		AACS	SIGNED	16	0	
F-0514	THR_SM_01_02	TLM'ACCUM(1)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0515	THR_SM_03_04	TLM'ACCUM(3)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0516	THR_SM_05_06	TLM'ACCUM(5)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0517	THR_SM_07_08	TLM'ACCUM(7)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0518	THR_SM_09_11	TLM'ACCUM(9)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0519	THR_SM_12_10	TLM'ACCUM(11)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0521	THrOnT_01	TOTAL'THR'TIME(1)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0522	THrOnT_02	TOTAL'THR'TIME(2)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0523	THrOnT_03	TOTAL'THR'TIME(3)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0524	THrOnT_04	TOTAL'THR'TIME(4)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0525	THrOnT_05	TOTAL'THR'TIME(5)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0526	THrOnT_06	TOTAL'THR'TIME(6)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0527	THrOnT_07	TOTAL'THR'TIME(7)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0528	THrOnT_08	TOTAL'THR'TIME(8)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0529	THrOnT_09	TOTAL'THR'TIME(9)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0530	THrOnT_10	TOTAL'THR'TIME(10)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0531	THrOnT_11	TOTAL'THR'TIME(11)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0532	THrOnT_12	TOTAL'THR'TIME(12)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0535	THrOnT_ME	TOTAL'THR'TIME(0)	MANUVR'THRTIM'CPL	AACS	FLOAT	32	0	
F-0541	IMU_DRIFT_1	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0542	IMU_DRIFT_2	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0543	IMU_DRIFT_3	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0544	IMU_DRIFT_4	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0545	IMU_DRIFT_5	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0546	IMU_DRIFT_6	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0550	STRX_CAISSANG	ANGLE'BP'FROM'L	STAREX'CPL	AACS	SIGNED	16	0	
F-0551	STRX_CORTEST	CORR'TEST	STAREX'CPL	AACS	SIGNED	16	0	
F-0552	STRX_DOTLOS	STAR'DOT'LOS	STAREX'CPL	AACS	SIGNED	16	0	
F-0553	STRX_DOTPROD	STAR'DOT'PROD	STAREX'CPL	AACS	SIGNED	16	0	
F-0554	STRX_MB_CNTS	MAXBIN'COUNTS	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0555	STRX_MVEC_X	MEAS'VEC(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0556	STRX_MVEC_Y	MEAS'VEC(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0557	STRX_MVEC_Z	MEAS'VEC(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0558	STRX_NB_CNTS	NEXBIN'COUNTS	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0559	STRX_NOIZVAR	MEAS'NOISE'VAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0560	STRX_SC_SLIT	SUCCESS'SLIT	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0561	STRX_TRANSTS	TRANSITS'PER'SEC	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0600	BU_MODE_ENA	ATT'ENABS(0)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	0	F-0005/00
F-0601	SUN_MON_EPH	ATT'ENABS(1)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	1	F-0005/01
F-0602	SUN_MON_THR	ATT'ENABS(2)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	2	F-0005/02
F-0603	SUN_AVOID	ATT'ENABS(3)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	3	F-0005/03
F-0604	RWA_PID_INT	ATT'ENABS(4)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	4	F-0005/04
F-0605	ANS_AUTO_ENA	ATT'ENABS(5)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	5	F-0005/05
F-0606	SEARCH_AUTO	ATT'ENABS(6)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	6	F-0005/06
F-0607	MAP_EPHEM	ATT'ENABS(7)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	7	F-0005/07
F-0608	CHK_NEW_EPH	ATT'ENABS(8)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	8	F-0005/08
F-0609	MHSA_DER_ATT	ATT'ENABS(9)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	9	F-0005/09
F-0610	CSAbu_HAS_BU	ATT'ENABS(10)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	10	F-0005/10
F-0611	SSA_MODE_SWI	ATT'ENABS(11)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	11	F-0005/11
F-0612	ATT_ENAB_12	ATT'ENABS(12)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	12	F-0005/12
F-0613	ATT_ENAB_13	ATT'ENABS(13)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	13	F-0005/13
F-0614	ATT_ENAB_14	ATT'ENABS(14)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	14	F-0005/14
F-0615	ATT_ENAB_15	ATT'ENABS(15)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	15	F-0005/15
F-0620	HGA_STATS_00	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0200/00
F-0621	HGA_STATS_01	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0200/01
F-0622	HGA_STATS_02	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0200/02
F-0623	HGA_STATS_03	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	3	F-0200/03
F-0625	HGA_STATS_05	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0200/05
F-0626	HGA_STATS_06	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0200/06
F-0627	HGA_STATS_07	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	2	7	F-0200/07
F-0629	HGA_STATS_09	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0200/09
F-0630	HGA_STATS_10	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0200/10
F-0631	HGA_STATS_11	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	11	F-0200/11

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0633	HGA_STATS_13	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0200/13
F-0634	HGA_STATS_14	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0200/14
F-0635	HGA_STATS_15	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	1	15	F-0200/15
F-0640	IMU_DCsupSEL	TELEM'IMU'STATUS(0,0)	CYCEEXEC'CPL	AACS	STATUS	1	0	F-0210/00
F-0641	IMU_ACsupSEL	TELEM'IMU'STATUS(0,1)	CYCEEXEC'CPL	AACS	STATUS	1	1	F-0210/01
F-0642	CS_TRI_B_SEL	TELEM'IMU'STATUS(0,2)	CYCEEXEC'CPL	AACS	STATUS	1	2	F-0210/02
F-0643	CS_TRI_A_SEL	TELEM'IMU'STATUS(0,3)	CYCEEXEC'CPL	AACS	STATUS	1	3	F-0210/03
F-0644	IMU_TEST_SEL	TELEM'IMU'STATUS(0,4)	CYCEEXEC'CPL	AACS	STATUS	1	4	F-0210/04
F-0645	IMU_RATE_SEL	TELEM'IMU'STATUS(0,5)	CYCEEXEC'CPL	AACS	STATUS	1	5	F-0210/05
F-0646	IMU_STW1_06	TELEM'IMU'STATUS(0,6)	CYCEEXEC'CPL	AACS	UNSIGNED	1	6	F-0210/06
F-0647	IMU_STW1_07	TELEM'IMU'STATUS(0,7)	CYCEEXEC'CPL	AACS	UNSIGNED	1	7	F-0210/07
F-0648	IMU_FORMAT	TELEM'IMU'STATUS(0,8)	CYCEEXEC'CPL	AACS	STATUS	1	8	F-0210/08
F-0649	IMU_Ychn_SEL	TELEM'IMU'STATUS(0,9)	CYCEEXEC'CPL	AACS	STATUS	1	9	F-0210/09
F-0650	IMU_Xchn_SEL	TELEM'IMU'STATUS(0,10)	CYCEEXEC'CPL	AACS	STATUS	1	10	F-0210/10
F-0651	IMU_Zchn_SEL	TELEM'IMU'STATUS(0,11)	CYCEEXEC'CPL	AACS	STATUS	1	11	F-0210/11
F-0652	IMU_DATA_SEL	TELEM'IMU'STATUS(0,12)	CYCEEXEC'CPL	AACS	STATUS	1	12	F-0210/12
F-0653	IMU_G3_STAT	TELEM'IMU'STATUS(0,13)	CYCEEXEC'CPL	AACS	STATUS	1	13	F-0210/13
F-0654	IMU_G2_STAT	TELEM'IMU'STATUS(0,14)	CYCEEXEC'CPL	AACS	STATUS	1	14	F-0210/14
F-0655	IMU_G1_STAT	TELEM'IMU'STATUS(0,15)	CYCEEXEC'CPL	AACS	STATUS	1	15	F-0210/15
F-0700	MHSA_QD_B_00	QUAD'DATA'BAD(0)	AACS2'MHSA'CPL	AACS	STATUS	1	0	F-0266/00
F-0701	MHSA_QD_B_01	QUAD'DATA'BAD(1)	AACS2'MHSA'CPL	AACS	STATUS	1	1	F-0266/01
F-0702	MHSA_QD_B_02	QUAD'DATA'BAD(2)	AACS2'MHSA'CPL	AACS	STATUS	1	2	F-0266/02
F-0703	MHSA_QD_B_03	QUAD'DATA'BAD(3)	AACS2'MHSA'CPL	AACS	STATUS	1	3	F-0266/03
F-0710	MHSA_QD_V_00	QUAD'VIEW'SPACE(0)	AACS2'MHSA'CPL	AACS	STATUS	1	0	F-0267/00
F-0711	MHSA_QD_V_01	QUAD'VIEW'SPACE(1)	AACS2'MHSA'CPL	AACS	STATUS	1	1	F-0267/01
F-0712	MHSA_QD_V_02	QUAD'VIEW'SPACE(2)	AACS2'MHSA'CPL	AACS	STATUS	1	2	F-0267/02
F-0713	MHSA_QD_V_03	QUAD'VIEW'SPACE(3)	AACS2'MHSA'CPL	AACS	STATUS	1	3	F-0267/03
F-0720	MOM_PRESET_0	MOM'UNL'ENABLE	AACS2'MOMUNL'PRESET	AACS	STATUS	1	0	F-0276/00
F-0721	MOM_PRESET_1	MOM'UNL'ENABLE	AACS2'MOMUNL'PRESET	AACS	STATUS	1	1	F-0276/01
F-0740	INERT_REF	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0283/00
F-0741	BU_INERT_REF	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0283/01
F-0742	MHSA_USABLE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0283/02
F-0743	SUN_MON_CHK	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	3	F-0283/03
F-0744	MHSA_VIEW	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	4	F-0283/04
F-0745	MHSA_DATA	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0283/05
F-0746	SUN_FILTER	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0283/06
F-0747	STAR_UPDATE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	7	F-0283/07
F-0748	MNVR_ACTIVE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	8	F-0283/08
F-0749	SUN_ON_ARRAY	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0283/09
F-0750	NEW_MODE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0283/10
F-0751	LNCH_TACH_LK	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	11	F-0283/11
F-0752	SUN_MON_LIM	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	12	F-0283/12
F-0753	SUN_DIF_EPH	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0283/13
F-0754	PACK_ATT_14	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0283/14
F-0755	CM_REQ_PEND	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	15	F-0283/15
F-0760	RWA_X_SPDsgn	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0345/00
F-0761	RWA_X_ID	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0345/01
F-0763	RWA_X_PWR_ST	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0345/03
F-0764	RWA_X_PWRLIM	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0345/04

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0765	RWA_X_SPDMAG	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0345/05
F-0770	RWA_Y_SPDsgn	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0346/00
F-0771	RWA_Y_ID	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0346/01
F-0773	RWA_Y_PWR_ST	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0346/03
F-0774	RWA_Y_PWRЛИM	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0346/04
F-0775	RWA_Y_SPDMAG	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0346/05
F-0780	RWA_Z_SPDsgn	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0347/00
F-0781	RWA_Z_ID	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0347/01
F-0783	RWA_Z_PWR_ST	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0347/03
F-0784	RWA_Z_PWRЛИM	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0347/04
F-0785	RWA_Z_SPDMAG	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0347/05
F-0790	RWA_S_SPDsgn	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0348/00
F-0791	RWA_S_ID	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0348/01
F-0793	RWA_S_PWR_ST	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0348/03
F-0794	RWA_S_PWRЛИM	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0348/04
F-0795	RWA_S_SPDMAG	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0348/05
F-0800	SAM_STATS_00	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0385/00
F-0801	SAM_STATS_01	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0385/01
F-0802	SAM_STATS_02	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0385/02
F-0803	SAM_STATS_03	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	3	F-0385/03
F-0805	SAM_STATS_05	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0385/05
F-0806	SAM_STATS_06	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0385/06
F-0807	SAM_STATS_07	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	2	7	F-0385/07
F-0809	SAM_STATS_09	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0385/09
F-0810	SAM_STATS_10	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0385/10
F-0811	SAM_STATS_11	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	11	F-0385/11
F-0813	SAM_STATS_13	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0385/13
F-0814	SAM_STATS_14	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0385/14
F-0815	SAM_STATS_15	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	1	15	F-0385/15
F-0820	SAP_STATS_00	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0415/00
F-0821	SAP_STATS_01	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0415/01
F-0822	SAP_STATS_02	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0415/02
F-0823	SAP_STATS_03	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	3	F-0415/03
F-0825	SAP_STATS_05	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0415/05
F-0826	SAP_STATS_06	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0415/06
F-0827	SAP_STATS_07	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	2	7	F-0415/07
F-0829	SAP_STATS_09	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0415/09
F-0830	SAP_STATS_10	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0415/10
F-0831	SAP_STATS_11	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	11	F-0415/11
F-0833	SAP_STATS_13	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0415/13
F-0834	SAP_STATS_14	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0415/14
F-0835	SAP_STATS_15	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	1	15	F-0415/15
F-0840	SSA_RET_A_GC	TELEM'RETICLE	CYCEEXEC'CPL	AACS	UNSIGNED	8	0	F-0440/00
F-0848	SSA_RET_B_GC	TELEM'RETICLE	CYCEEXEC'CPL	AACS	UNSIGNED	8	8	F-0440/08
F-0860	SSA_RAW_D_00	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	UNSIGNED	8	0	F-0442/00
F-0868	SSA_MODE_SEL	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	1	8	F-0442/08
F-0869	SSA_SUN_SEEN	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	1	9	F-0442/09
F-0870	SSA_CMD_DET	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	3	10	F-0442/10
F-0873	SSA_AUTO_DET	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	3	13	F-0442/13

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0884	MOMUNL_AXIS	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	STATUS	4	4	F-0277/04
F-0888	MOMUNL_STATE	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	STATUS	4	8	F-0277/08
F-0892	UNLSEQ_STATE	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	STATUS	4	12	F-0277/12
F-0900	ASN_CSOffst	NEW'AACS'STATUS(0)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	0	F-0009/00
F-0901	ASN_NOM_ACT	NEW'AACS'STATUS(1)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	1	F-0009/01
F-0902	ASN_CM_ACT	NEW'AACS'STATUS(2)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	2	F-0009/02
F-0903	ASN_THR_LEAK	NEW'AACS'STATUS(3)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	3	F-0009/03
F-0904	ASN_CNTR_FLT	NEW'AACS'STATUS(4)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	4	F-0009/04
F-0905	ASN_RWA_STIC	NEW'AACS'STATUS(5)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	5	F-0009/05
F-0906	ASN_SPARE_06	NEW'AACS'STATUS(6)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	6	F-0009/06
F-0907	ASN_SPARE_07	NEW'AACS'STATUS(7)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	7	F-0009/07
F-0908	ASN_EOD	NEW'AACS'STATUS(8)	AACS2'GLOBAL'PRESET	AACS	STATUS	2	8	F-0009/08
F-0910	ASN_THR_SEL	NEW'AACS'STATUS(10)	AACS2'GLOBAL'PRESET	AACS	STATUS	2	10	F-0009/10
F-0912	ASN_SPARE_12	NEW'AACS'STATUS(12)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	12	F-0009/12
F-0913	ASN_SPARE_13	NEW'AACS'STATUS(13)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	13	F-0009/13
F-0914	ASN_SPARE_14	NEW'AACS'STATUS(14)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	14	F-0009/14
F-0915	ASN_SPARE_15	NEW'AACS'STATUS(15)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	15	F-0009/15
F-1000	AUDIT_Q_CNT	AUDITQUE'DEScriptor	QUEUECPL	CDH	UNSIGNED	16	0	
F-1001	AUDIT_Q_LOST	AUDITQUE'DEScriptor	QUEUECPL	CDH	UNSIGNED	16	0	
F-1002	AUDIT_Q_W1	AUDITQUE'MSGTYPE	AUDITQUE'CPL	CDH	UNSIGNED	16	0	
F-1003	AUDIT_Q_W2-3	AUDITQUE'TIMETAG	AUDITQUE'CPL	CDH	UNSIGNED	32	0	
F-1004	AUDIT_Q_W4	DIAGNOSTIC'DATA'1	AUDITQUE'CPL	CDH	DIGITAL	16	0	
F-1005	AUDIT_Q_W5	DIAGNOSTIC'DATA'2	AUDITQUE'CPL	CDH	DIGITAL	16	0	
F-1008	AUTOENAB_1	AUTONOMOUS'ENABLE	REDMAN'CPL	CDH	DIGITAL	16	0	F-1008
F-1009	AUTOENAB_2	AUTONOMOUS'ENABLE	REDMAN'CPL	CDH	DIGITAL	16	0	F-1009
F-1010	CE_DISCRETE	CYCEEXEC'DISCRETE	CYCEEXEC'PRESET	CDH	STATUS	1	0	
F-1011	CE_GND_ENT_T	GND'STATE'ENTRY'TIME	CYCEEXEC'CPL	CDH	UNSIGNED	32	0	
F-1012	CE_GND_MAX_T	MAX'GND'STATE'TIME	CYCEEXEC'CPL	CDH	UNSIGNED	32	0	
F-1013	CE_SCP10TIME	SCP'10'TIME	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1014	CE_SCP_ID	SCP'ID	CYCEEXEC'CPL	CDH	STATUS	4	12	
F-1015	CE_SCP_TIME	SCPTIME	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1016	CE_SC_STATE	SC'STATE	CYCEEXEC'CPL	CDH	STATUS	4	12	
F-1017	CE_TASK_TOCT	TASK'TIMEOUT'FI'COUNT	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1018	CE_TIME_DIFF	TIME'DIFF	CYCEEXEC'CPL	CDH	SIGNED	32	0	
F-1019	CE_TOT_MSG_L	TOTAL'MSGS'LOST'ERRORS	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1020	CE_TOT_Q_ERR	TOTAL'QUEUE'ERRORS	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1021	CE_WAKEUPFI	WAKEUP'TASK'FI'COUNT	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1024	CIU_FLAGS	CIU'FLAG'WORD	CYCEEXEC'CPL	CDH	DIGITAL	16	0	F-1024
F-1026	CIX_FLAGS	CIX'FLAG'WORD	CYCEEXEC'CPL	CDH	DIGITAL	16	0	F-1026
F-1030	CV_DATA_WORD	CV'WORD	TELEMETRYCPL	CDH	DIGITAL	16	0	
F-1031	CV_Q_COUNT	CVQUEUE'DEScriptor	QUEUECPL	CDH	UNSIGNED	16	0	
F-1034	DEVDEAD_1	DEVICE'DEAD'FLAG	REDMAN'CPL	CDH	DIGITAL	16	0	F-1034
F-1035	DEVDEAD_2	DEVICE'DEAD'FLAG	REDMAN'CPL	CDH	DIGITAL	16	0	F-1035
F-1040	EDF_ERROR_CT	EDFERROR'COUNT	TELEMETRYCPL	CDH	UNSIGNED	16	0	
F-1041	EDF_ERR_CNT1	EDFERROR'MATRIX	SUBCOMCPL	CDH	UNSIGNED	16	0	
F-1042	EDF_ERR_CNT2	EDFERROR'MATRIX	SUBCOMCPL	CDH	UNSIGNED	16	0	
F-1043	EDF_ERR_MAT1	EDFERROR'MATRIX	SUBCOMCPL	CDH	DIGITAL	16	0	
F-1044	EDF_ERR_MAT2	EDFERROR'MATRIX	SUBCOMCPL	CDH	DIGITAL	16	0	
F-1045	EDF_FINISH	EDF'INITIALIZATION'START'TIME	REDMAN'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1046	EDF_INTERRUPT_CTR	EDF INTERRUPT'COUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1047	EDF_PKT_0	EDF'SUBCOM'PACKET	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1048	EDF_PKT_1	EDF'SUBCOM'PACKET	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1049	EDF_SCLKTIME	SPACECRAFTTIME	SUBCOM'CPL	CDH	UNSIGNED	32	0	
F-1060	EIS_1BITERCT	SEFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1061	EIS_FIXPT_OF	FXOFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1062	EIS_FLTPT_OF	FLOFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1063	EIS_FLTPT_UF	FLUFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1064	EIS_IIL_EXEC	ILLEXEC'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1065	EIS_ISR_TIMA	TIMAIRSR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1066	EIS_LVL0_ERR	LVL0ISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1067	EIS_MACH_ERR	MERRISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1068	EIS_MER_PAGE	MERRPAGE'NUMBER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1069	EIS_MER_PgOF	MERR'OFFSET'ADDRESS	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-1070	EIS_RT_FAULT	RUNTIMEFAULT'REGISTER	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-1071	EIS_SEF_ERRW	SEFERROR'REGISTER	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-1072	EIS_SEF_PAGE	SEFPAGE'NUMBER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1073	EIS_SEF_PgOF	SEFOFFSET'ADDRESS	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-1074	EIS_SPR_INT	SPARISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1080	INT_CMDEX_CT	INTERNAL'CMD'S'EXECUTED'COUNT	CMDEX'DATA'CPL	CDH	UNSIGNED	16	0	
F-1081	INT_CMDRJ_CT	INTERNAL'CMD'S'REJECTED'COUNT	CMDEX'DATA'CPL	CDH	UNSIGNED	16	0	
F-1090	MCHK_ITTR_CT	MEMCHK'ITERATIONS	MEMCHK'CPL	CDH	UNSIGNED	32	0	
F-1092	MEOK_WORD	MEOK'INHIBIT'WORD	CYCEEXEC'CPL	CDH	DIGITAL	16	0	F-1092
F-1094	MINISEQ_STAT	MINI'SEQ'STATUS	MINI'SEQ'CPL	CDH	DIGITAL	16	0	F-1094
F-1096	M_PHASE_BUFF	CIU'CHECK'INPUT	CYCEEXEC'CPL	CDH	DIGITAL	16	0	F-1096
F-1100	PDS_INTER	PDS'INTERRUPT'COUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1101	PDS_SENT	PDS'MESSAGES'SENT'COUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1102	PDS_SEQNO	PDS'SEQUENCE'NUMBER	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1103	PDS_TMOUT_CT	PDS'TIMEOUT'COUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1104	PDS_TO_SEQNO	PDS'TIMEOUT'SEQ'NUM	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1105	PDS_UNXMSGCT	PDS'UNEXPECTED'DMSGTYPE'COUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1110	POBimgCIU138	BUFFER'IMAGE(1)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1111	POBimgCIU21A	BUFFER'IMAGE(36)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1112	POBimgCIU22A	BUFFER'IMAGE(37)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1113	POBimgCIU232	BUFFER'IMAGE(38)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1114	POBimgCIU234	BUFFER'IMAGE(39)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1115	POBimgCIU246	BUFFER'IMAGE(40)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1116	POBimgCIU24A	BUFFER'IMAGE(41)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1117	POBimgCIU262	BUFFER'IMAGE(42)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1118	POBimgCIU292	BUFFER'IMAGE(43)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1119	POBimgCIU294	BUFFER'IMAGE(44)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1120	POBimgCIU298	BUFFER'IMAGE(45)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1121	POBimgCIU2A2	BUFFER'IMAGE(46)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1122	POBimgCIUA12	BUFFER'IMAGE(47)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1123	POBimgCIUAA0	BUFFER'IMAGE(48)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1124	POBimgCIUAC0	BUFFER'IMAGE(49)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1130	POBimgCIX138	BUFFER'IMAGE(2)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1131	POBimgCIX20E	BUFFER'IMAGE(3)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1132	POBimgCIX216	BUFFER'IMAGE(4)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1133	POBimgCIX21C	BUFFER'IMAGE(5)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1134	POBimgCIX22C	BUFFER'IMAGE(6)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1135	POBimgCIX232	BUFFER'IMAGE(7)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1136	POBimgCIX24C	BUFFER'IMAGE(8)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1137	POBimgCIX254	BUFFER'IMAGE(9)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1138	POBimgCIX258	BUFFER'IMAGE(10)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1139	POBimgCIX270	BUFFER'IMAGE(11)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1140	POBimgCIX286	BUFFER'IMAGE(12)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1141	POBimgCIX28A	BUFFER'IMAGE(13)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1142	POBimgCIX28C	BUFFER'IMAGE(14)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1143	POBimgCIX2A4	BUFFER'IMAGE(15)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1144	POBimgCIX2A8	BUFFER'IMAGE(16)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1145	POBimgCIX2C2	BUFFER'IMAGE(17)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1146	POBimgCIX2C4	BUFFER'IMAGE(18)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1147	POBimgCIX2C8	BUFFER'IMAGE(19)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1148	POBimgCIXA06	BUFFER'IMAGE(20)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1149	POBimgCIXA0A	BUFFER'IMAGE(21)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1150	POBimgCIXA0C	BUFFER'IMAGE(22)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1151	POBimgCIXA14	BUFFER'IMAGE(23)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1152	POBimgCIXA18	BUFFER'IMAGE(24)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1153	POBimgCIXA22	BUFFER'IMAGE(25)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1154	POBimgCIXA24	BUFFER'IMAGE(26)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1155	POBimgCIXA28	BUFFER'IMAGE(27)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1156	POBimgCIXA42	BUFFER'IMAGE(28)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1157	POBimgCIXA44	BUFFER'IMAGE(29)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1158	POBimgCIXA48	BUFFER'IMAGE(30)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1159	POBimgCIXA60	BUFFER'IMAGE(31)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1160	POBimgCIXA82	BUFFER'IMAGE(32)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1161	POBimgCIXA84	BUFFER'IMAGE(33)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1162	POBimgCIXA88	BUFFER'IMAGE(34)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1163	POBimgCIXA90	BUFFER'IMAGE(35)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1170	RDM_ABSNTDAT	ERROR'DATA'ABSENT'COUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1171	RDM_AUTENSCP	AUTO'SCP'SWITCH'ENABLE	REDMAN'CPL	CDH	STATUS	4	12	
F-1172	RDM_BADMSGCT	REDMSG'BAD'TYPE'COUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1180	RDM_CE_CT_20	CONSEC'ERROR'COUNT(20)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1181	RDM_CE_CT_21	CONSEC'ERROR'COUNT(21)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1182	RDM_CE_CT_22	CONSEC'ERROR'COUNT(22)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1183	RDM_CE_CT_23	CONSEC'ERROR'COUNT(23)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1184	RDM_CE_CT_24	CONSEC'ERROR'COUNT(24)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1185	RDM_CE_CT_25	CONSEC'ERROR'COUNT(25)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1186	RDM_CE_CT_26	CONSEC'ERROR'COUNT(26)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1187	RDM_CE_CT_27	CONSEC'ERROR'COUNT(27)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1188	RDM_CE_CT_28	CONSEC'ERROR'COUNT(28)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1189	RDM_CE_CT_29	CONSEC'ERROR'COUNT(29)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1190	RDM_CE_CT_30	CONSEC'ERROR'COUNT(30)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1191	RDM_CE_CT_31	CONSEC'ERROR'COUNT(31)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1192	RDM_CE_CT_32	CONSEC'ERROR'COUNT(32)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1193	RDM_CE_CT_33	CONSEC'ERROR'COUNT(33)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1194	RDM_CE_CT_34	CONSEC'ERROR'COUNT(34)	REDMAN'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1195	RDM_CE_CT_35	CONSECERROR'COUNT(35)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1196	RDM_CE_CT_36	CONSECERROR'COUNT(36)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1197	RDM_CE_CT_37	CONSECERROR'COUNT(37)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1198	RDM_CE_CT_38	CONSECERROR'COUNT(38)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1199	RDM_CE_CT_39	CONSECERROR'COUNT(39)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1200	RDM_CE_CT_40	CONSECERROR'COUNT(40)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1201	RDM_CE_CT_41	CONSECERROR'COUNT(41)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1202	RDM_CE_CT_42	CONSECERROR'COUNT(42)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1203	RDM_CE_CT_43	CONSECERROR'COUNT(43)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1204	RDM_CE_CT_44	CONSECERROR'COUNT(44)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1205	RDM_CE_CT_45	CONSECERROR'COUNT(45)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1206	RDM_CE_CT_46	CONSECERROR'COUNT(46)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1207	RDM_CE_CT_47	CONSECERROR'COUNT(47)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1208	RDM_CE_CT_48	CONSECERROR'COUNT(48)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1209	RDM_CE_CT_49	CONSECERROR'COUNT(49)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1210	RDM_CE_CT_50	CONSECERROR'COUNT(50)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1211	RDM_CE_CT_51	CONSECERROR'COUNT(51)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1212	RDM_CE_CT_52	CONSECERROR'COUNT(52)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1213	RDM_CE_CT_53	CONSECERROR'COUNT(53)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1214	RDM_CE_CT_54	CONSECERROR'COUNT(54)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1215	RDM_CE_CT_55	CONSECERROR'COUNT(55)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1216	RDM_CE_CT_56	CONSECERROR'COUNT(56)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1217	RDM_CE_CT_57	CONSECERROR'COUNT(57)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1218	RDM_CE_CT_58	CONSECERROR'COUNT(58)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1219	RDM_CE_CT_59	CONSECERROR'COUNT(59)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1220	RDM_CE_CT_60	CONSECERROR'COUNT(60)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1221	RDM_CE_CT_61	CONSECERROR'COUNT(61)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1222	RDM_CE_CT_62	CONSECERROR'COUNT(62)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1223	RDM_CE_CT_63	CONSECERROR'COUNT(63)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1224	RDM_CE_CT_64	CONSECERROR'COUNT(64)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1225	RDM_CE_CT_65	CONSECERROR'COUNT(65)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1226	RDM_CE_CT_66	CONSECERROR'COUNT(66)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1227	RDM_CE_CT_67	CONSECERROR'COUNT(67)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1228	RDM_CE_CT_68	CONSECERROR'COUNT(68)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1229	RDM_CE_CT_69	CONSECERROR'COUNT(69)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1230	RDM_CE_CT_70	CONSECERROR'COUNT(70)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1231	RDM_CE_CT_71	CONSECERROR'COUNT(71)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1232	RDM_CE_CT_72	CONSECERROR'COUNT(72)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1233	RDM_CE_CT_73	CONSECERROR'COUNT(73)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1234	RDM_CE_CT_74	CONSECERROR'COUNT(74)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1236	RDM_CONTMODE	CONT'MODE'FLAGS	SMOEXEC'CPL	CDH	STATUS	4	12	
F-1237	RDM_DEV_CFG1	MAIN'DEVICE'CONFIG'INFO	REDMAN'CPL	AACS	DIGITAL	16	0	F-1237
F-1238	RDM_DEV_CFG2	MAIN'DEVICE'CONFIG'INFO	REDMAN'CPL	AACS	DIGITAL	16	0	F-1238
F-1240	RDM_EDFonTIM	EDF'INITIALIZATION'START'TIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1250	RDM_GMSWREN	GYRO'SHORT'RECOVERY'ENABLE	REDMAN'CPL	CDH	STATUS	4	12	
F-1251	RDM_GMWSRST	GYRO'SHORT'RECOVERY'START'TIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1252	RDM_GYRONTIM	GYRO'POWER'ON'TIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1253	RDM_GYROPWSH	GYRO'POWER'ON'TIME	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1254	RDM_GYRORCSH	GYRO'SHORT'RECOVERY'START'TIME	REDMAN'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1255	RDM_GYRO_CNF	ORIGINAL'CHANNEL'CONFIG	REDMAN'CPL	CDH	STATUS	4	12	
F-1256	RDM_GYscPHSE	GYRO'SHORTRECOVERYPHASE	REDMAN'CPL	CDH	STATUS	4	12	
F-1260	RDM_IMURCOVT	MISSED'IMU'INT'RCVRY'START'TIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1261	RDM_IMUTWMIS	MISSED'IMU'INT'RCVRY'START'TIME	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1262	RDM_IMU_STAT	EXPECTED'IMU'STATUS'WORD	REDMAN'CPL	CDH	DIGITAL	16	0	
F-1270	RDM_LETIME20	TIME'OF'LAST'ERROR(20)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1271	RDM_LETIME21	TIME'OF'LAST'ERROR(21)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1272	RDM_LETIME22	TIME'OF'LAST'ERROR(22)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1273	RDM_LETIME23	TIME'OF'LAST'ERROR(23)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1274	RDM_LETIME24	TIME'OF'LAST'ERROR(24)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1275	RDM_LETIME25	TIME'OF'LAST'ERROR(25)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1276	RDM_LETIME26	TIME'OF'LAST'ERROR(26)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1277	RDM_LETIME27	TIME'OF'LAST'ERROR(27)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1278	RDM_LETIME28	TIME'OF'LAST'ERROR(28)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1279	RDM_LETIME29	TIME'OF'LAST'ERROR(29)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1280	RDM_LETIME30	TIME'OF'LAST'ERROR(30)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1281	RDM_LETIME31	TIME'OF'LAST'ERROR(31)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1282	RDM_LETIME32	TIME'OF'LAST'ERROR(32)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1283	RDM_LETIME33	TIME'OF'LAST'ERROR(33)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1284	RDM_LETIME34	TIME'OF'LAST'ERROR(34)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1285	RDM_LETIME35	TIME'OF'LAST'ERROR(35)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1286	RDM_LETIME36	TIME'OF'LAST'ERROR(36)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1287	RDM_LETIME37	TIME'OF'LAST'ERROR(37)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1288	RDM_LETIME38	TIME'OF'LAST'ERROR(38)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1289	RDM_LETIME39	TIME'OF'LAST'ERROR(39)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1290	RDM_LETIME40	TIME'OF'LAST'ERROR(40)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1291	RDM_LETIME41	TIME'OF'LAST'ERROR(41)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1292	RDM_LETIME42	TIME'OF'LAST'ERROR(42)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1293	RDM_LETIME43	TIME'OF'LAST'ERROR(43)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1294	RDM_LETIME44	TIME'OF'LAST'ERROR(44)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1295	RDM_LETIME45	TIME'OF'LAST'ERROR(45)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1296	RDM_LETIME46	TIME'OF'LAST'ERROR(46)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1297	RDM_LETIME47	TIME'OF'LAST'ERROR(47)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1298	RDM_LETIME48	TIME'OF'LAST'ERROR(48)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1299	RDM_LETIME49	TIME'OF'LAST'ERROR(49)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1300	RDM_LETIME50	TIME'OF'LAST'ERROR(50)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1301	RDM_LETIME51	TIME'OF'LAST'ERROR(51)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1302	RDM_LETIME52	TIME'OF'LAST'ERROR(52)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1303	RDM_LETIME53	TIME'OF'LAST'ERROR(53)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1304	RDM_LETIME54	TIME'OF'LAST'ERROR(54)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1305	RDM_LETIME55	TIME'OF'LAST'ERROR(55)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1306	RDM_LETIME56	TIME'OF'LAST'ERROR(56)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1307	RDM_LETIME57	TIME'OF'LAST'ERROR(57)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1308	RDM_LETIME58	TIME'OF'LAST'ERROR(58)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1309	RDM_LETIME59	TIME'OF'LAST'ERROR(59)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1310	RDM_LETIME60	TIME'OF'LAST'ERROR(60)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1311	RDM_LETIME61	TIME'OF'LAST'ERROR(61)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1312	RDM_LETIME62	TIME'OF'LAST'ERROR(62)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1313	RDM_LETIME63	TIME'OF'LAST'ERROR(63)	REDMAN'CPL	CDH	UNSIGNED	32	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1314	RDM_LETIME64	TIME'OF'LAST'ERROR(64)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1315	RDM_LETIME65	TIME'OF'LAST'ERROR(65)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1316	RDM_LETIME66	TIME'OF'LAST'ERROR(66)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1317	RDM_LETIME67	TIME'OF'LAST'ERROR(67)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1318	RDM_LETIME68	TIME'OF'LAST'ERROR(68)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1319	RDM_LETIME69	TIME'OF'LAST'ERROR(69)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1320	RDM_LETIME70	TIME'OF'LAST'ERROR(70)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1321	RDM_LETIME71	TIME'OF'LAST'ERROR(71)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1322	RDM_LETIME72	TIME'OF'LAST'ERROR(72)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1323	RDM_LETIME73	TIME'OF'LAST'ERROR(73)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1324	RDM_LETIME74	TIME'OF'LAST'ERROR(74)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1328	RDM_NEEDDATA	FOLLOW'UP'REQ'DATA'COUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1330	RDM_RWA_CNGF	ORIGINAL'RWA'CONFIG	REDMAN'CPL	CDH	STATUS	4	12	
F-1331	RDM_RWA_FREZ	FREEZE'RWA'CONFIG	REDMAN'CPL	CDH	STATUS	4	12	
F-1339	RDM_SIDE_RPA	CURRENTRPA'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1340	RDM_SIDE_EDF	CURRENTEDFSIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1341	RDM_SIDE_HGA	CURRENTHGA'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1342	RDM_SIDE_MHS	CURRENTMHS'A'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1343	RDM_SIDE_PSE	CURRENTPSE'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1344	RDM_SIDE_SAM	CURRENTSAM'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1345	RDM_SIDE_SAP	CURRENTSAP'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1346	RDM_SIDE_SSA	CURRENTSSA'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1347	RDM_SIDE_XSU	CURRENTXSU'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1348	RDMN_SW_SUM1	SWITCH'SUMMARY	REDMAN'CPL	CDH	DIGITAL	16	0	F-1348
F-1349	RDMN_SW_SUM2	SWITCHSUMMARY	REDMAN'CPL	CDH	DIGITAL	16	0	F-1349
F-1350	RDM_TE_CT_20	REDMANTOTAL'ERROR'COUNT(20)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1351	RDM_TE_CT_21	REDMANTOTAL'ERROR'COUNT(21)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1352	RDM_TE_CT_22	REDMANTOTAL'ERROR'COUNT(22)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1353	RDM_TE_CT_23	REDMANTOTAL'ERROR'COUNT(23)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1354	RDM_TE_CT_24	REDMANTOTAL'ERROR'COUNT(24)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1355	RDM_TE_CT_25	REDMANTOTAL'ERROR'COUNT(25)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1356	RDM_TE_CT_26	REDMANTOTAL'ERROR'COUNT(26)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1357	RDM_TE_CT_27	REDMANTOTAL'ERROR'COUNT(27)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1358	RDM_TE_CT_28	REDMANTOTAL'ERROR'COUNT(28)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1359	RDM_TE_CT_29	REDMANTOTAL'ERROR'COUNT(29)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1360	RDM_TE_CT_30	REDMANTOTAL'ERROR'COUNT(30)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1361	RDM_TE_CT_31	REDMANTOTAL'ERROR'COUNT(31)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1362	RDM_TE_CT_32	REDMANTOTAL'ERROR'COUNT(32)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1363	RDM_TE_CT_33	REDMANTOTAL'ERROR'COUNT(33)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1364	RDM_TE_CT_34	REDMANTOTAL'ERROR'COUNT(34)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1365	RDM_TE_CT_35	REDMANTOTAL'ERROR'COUNT(35)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1366	RDM_TE_CT_36	REDMANTOTAL'ERROR'COUNT(36)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1367	RDM_TE_CT_37	REDMANTOTAL'ERROR'COUNT(37)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1368	RDM_TE_CT_38	REDMANTOTAL'ERROR'COUNT(38)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1369	RDM_TE_CT_39	REDMANTOTAL'ERROR'COUNT(39)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1370	RDM_TE_CT_40	REDMANTOTAL'ERROR'COUNT(40)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1371	RDM_TE_CT_41	REDMANTOTAL'ERROR'COUNT(41)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1372	RDM_TE_CT_42	REDMANTOTAL'ERROR'COUNT(42)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1373	RDM_TE_CT_43	REDMANTOTAL'ERROR'COUNT(43)	REDMAN'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1374	RDM_TE_CT_44	REDMAN'TOTAL'ERROR'COUNT(44)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1375	RDM_TE_CT_45	REDMAN'TOTAL'ERROR'COUNT(45)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1376	RDM_TE_CT_46	REDMAN'TOTAL'ERROR'COUNT(46)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1377	RDM_TE_CT_47	REDMAN'TOTAL'ERROR'COUNT(47)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1378	RDM_TE_CT_48	REDMAN'TOTAL'ERROR'COUNT(48)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1379	RDM_TE_CT_49	REDMAN'TOTAL'ERROR'COUNT(49)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1380	RDM_TE_CT_50	REDMAN'TOTAL'ERROR'COUNT(50)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1381	RDM_TE_CT_51	REDMAN'TOTAL'ERROR'COUNT(51)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1382	RDM_TE_CT_52	REDMAN'TOTAL'ERROR'COUNT(52)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1383	RDM_TE_CT_53	REDMAN'TOTAL'ERROR'COUNT(53)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1384	RDM_TE_CT_54	REDMAN'TOTAL'ERROR'COUNT(54)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1385	RDM_TE_CT_55	REDMAN'TOTAL'ERROR'COUNT(55)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1386	RDM_TE_CT_56	REDMAN'TOTAL'ERROR'COUNT(56)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1387	RDM_TE_CT_57	REDMAN'TOTAL'ERROR'COUNT(57)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1388	RDM_TE_CT_58	REDMAN'TOTAL'ERROR'COUNT(58)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1389	RDM_TE_CT_59	REDMAN'TOTAL'ERROR'COUNT(59)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1390	RDM_TE_CT_60	REDMAN'TOTAL'ERROR'COUNT(60)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1391	RDM_TE_CT_61	REDMAN'TOTAL'ERROR'COUNT(61)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1392	RDM_TE_CT_62	REDMAN'TOTAL'ERROR'COUNT(62)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1393	RDM_TE_CT_63	REDMAN'TOTAL'ERROR'COUNT(63)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1394	RDM_TE_CT_64	REDMAN'TOTAL'ERROR'COUNT(64)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1395	RDM_TE_CT_65	REDMAN'TOTAL'ERROR'COUNT(65)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1396	RDM_TE_CT_66	REDMAN'TOTAL'ERROR'COUNT(66)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1397	RDM_TE_CT_67	REDMAN'TOTAL'ERROR'COUNT(67)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1398	RDM_TE_CT_68	REDMAN'TOTAL'ERROR'COUNT(68)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1399	RDM_TE_CT_69	REDMAN'TOTAL'ERROR'COUNT(69)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1400	RDM_TE_CT_70	REDMAN'TOTAL'ERROR'COUNT(70)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1401	RDM_TE_CT_71	REDMAN'TOTAL'ERROR'COUNT(71)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1402	RDM_TE_CT_72	REDMAN'TOTAL'ERROR'COUNT(72)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1403	RDM_TE_CT_73	REDMAN'TOTAL'ERROR'COUNT(73)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1404	RDM_TE_CT_74	REDMAN'TOTAL'ERROR'COUNT(74)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1405	RDM_TE_CT_75	REDMAN'TOTAL'ERROR'COUNT(75)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1408	RDM_XS_ERRS	TOOMANYFOLLOWUP'COUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1410	SCP_DATAFAULT	TLM'DATA'READ'FAULT'COUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1411	SCP_DUMPFAULT	TLM'DUMP'READ'FAULT'COUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1412	SCP_EMRTLMNO	EMERGENCYTLM'VERSION	TELEMETRYTABLESPRESET	CDH	UNSIGNED	16	0	
F-1413	SCP_ENGTLMNO	ENGINEERINGTLM'VERSION	TELEMETRYTABLESPRESET	CDH	UNSIGNED	16	0	
F-1414	SCP_FRAME_ID	MINOR'FRAME'NUMBER	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1420	SMOEX_ENABLES	SMOEXEC'ENABLES	SMOEXEC'PRESET	CDH	DIGITAL	16	0	
F-1421	SMOEX_PKD_ST	PACKEDSMOEXEC'STATE	SMOEXEC'CPL	CDH	DIGITAL	16	0	
F-1430	TC_ACTV_SCRP	ACTIVE'SCRIPT'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1431	TC_CMD_TIME	COMMAND'TIME	TIMEDCMD'CPL	CDH	UNSIGNED	32	0	
F-1432	TC_DISCRETES	TIMEDCMD'DISCRETES	TIMEDCMD'PRESET	CDH	DIGITAL	16	0	
F-1433	TC_HEAD_ACTV	ACTIVE'LIST'HEAD	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1434	TC_INVLPLMS	INVALID'PULSTERM'MSG'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1435	TC_MAXACTSCR	MAX'ACTIVE'SCRIPTS	TIMEDCMD'PRESET	CDH	UNSIGNED	16	0	
F-1436	TC_MAX_ADDR	MAXSCRIPT'ADDRESS	TIMEDCMD'CPL	CDH	DIGITAL	16	0	
F-1437	TC_NCTOFFS	NONCONTROLTIME'OFFSET	TIMEDCMD'PRESET	CDH	UNSIGNED	16	0	
F-1438	TC_PDS_CMDEX	STORED'PDS'CMD'EXECUTED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1439	TC_PD_ISINIT	PULSE'DISCRETES'INITIATED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1440	TC_PD_ISTERM	PULSE'DISCRETESTERMINATED'COUN	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1441	TC_SBUS_EXCT	STORED'BUS'CMD'EXECUTED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1442	TC_SBUS_RJCT	STORED'BUS'CMD'REJECTED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1443	TC_SCMD_DATA	STRD'CMD'DATA	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1444	TC_SCMD_OPCODE	STRD'CMD'OPCODE	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1445	TC_SCMD_SORS	STRD'CMD'SOURCE	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1446	TC_SCRIPT_ADR	SCRIPTBUFFER'ADDRESS	TIMEDCMD'PRESET	CDH	DIGITAL	16	0	
F-1447	TC_SCRIPT_SIZ	SCRIPTBUFFER'SIZE	TIMEDCMD'PRESET	CDH	UNSIGNED	16	0	
F-1448	TC_UNXMSGTCT	TIMEDCMD'UNEXPECTED'MSGTYPE'CO	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1450	UPL_CIUARTCT	CIU'COMMAND'ARMED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1451	UPL_CIUEXCNT	CIUCOMMAND'EXECUTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1452	UPL_CIUREJCT	CIU'COMMAND'REJECTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1453	UPL_CMDEXTIM	UPLINK'COMMAND'EXECUTIONTIME	UPLINK'CPL	CDH	UNSIGNED	32	0	
F-1454	UPL_CMDSEQNO	COMMANDSEQUENCE'NUMBER	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1455	UPL_CRCERRCT	CRCERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1456	UPL_DOUBERCT	DOUBLE'ERROR'COUNT	UPLINKCPL	CDH	UNSIGNED	16	0	
F-1457	UPL_FMTERRCT	FORMATERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1458	UPL_INTRPTCT	UPLINK'INTERRUPT'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1459	UPL_RECVDCNT	FRAMES'RECEIVED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1460	UPL_SCPEXCNT	SCPCOMMAND'EXECUTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1461	UPL SCPREJCT	SCPCOMMAND'REJECTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1462	UPL_SEQERRCT	SEQUENCE'ERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1463	UPL_SINGERCT	SINGLE'ERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1464	UPL_UNXMSGCT	UNEXPECTED'MSGTYPE'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1465	UPL_STATUS	UPLINK'STATUS	UPLINK'CPL	CDH	DIGITAL	16	0	F-1465
F-1500	AUTOEN1_BUS	AUTONOMOUS'ENABLE(0)	REDMANCPL	CDH	STATUS	1	0	F-1008/00
F-1501	AUTOEN1_CLK	AUTONOMOUS'ENABLE(1)	REDMANCPL	CDH	STATUS	1	1	F-1008/01
F-1502	AUTOEN1_SSA	AUTONOMOUS'ENABLE(2)	REDMANCPL	CDH	STATUS	1	2	F-1008/02
F-1503	AUTOEN1_RWA	AUTONOMOUS'ENABLE(3)	REDMANCPL	CDH	STATUS	1	3	F-1008/03
F-1504	AUTOEN1_IMU	AUTONOMOUS'ENABLE(4)	REDMANCPL	CDH	STATUS	1	4	F-1008/04
F-1505	AUTOEN1_GYR	AUTONOMOUS'ENABLE(5)	REDMANCPL	CDH	STATUS	1	5	F-1008/05
F-1506	AUTOEN1_DTC	AUTONOMOUS'ENABLE(6)	REDMANCPL	CDH	STATUS	1	6	F-1008/06
F-1507	AUTOEN1_EDF	AUTONOMOUS'ENABLE(7)	REDMANCPL	CDH	STATUS	1	7	F-1008/07
F-1508	AUTOEN1_XSU	AUTONOMOUS'ENABLE(8)	REDMANCPL	CDH	STATUS	1	8	F-1008/08
F-1509	AUTOEN1_TWT	AUTONOMOUS'ENABLE(9)	REDMANCPL	CDH	STATUS	1	9	F-1008/09
F-1510	AUTOEN1_MOT	AUTONOMOUS'ENABLE(10)	REDMANCPL	CDH	STATUS	1	10	F-1008/10
F-1511	AUTOEN1_PSE	AUTONOMOUS'ENABLE(11)	REDMANCPL	CDH	STATUS	1	11	F-1008/11
F-1512	AUTOEN1_SAP	AUTONOMOUS'ENABLE(12)	REDMANCPL	CDH	STATUS	1	12	F-1008/12
F-1513	AUTOEN1_HGA	AUTONOMOUS'ENABLE(13)	REDMANCPL	CDH	STATUS	1	13	F-1008/13
F-1514	AUTOEN1_SAM	AUTONOMOUS'ENABLE(14)	REDMANCPL	CDH	STATUS	1	14	F-1008/14
F-1515	AUTOEN1_ATT	AUTONOMOUS'ENABLE(15)	REDMANCPL	CDH	STATUS	1	15	F-1008/15
F-1520	CIUFL_2Hz	CIU'FLAG'WORD(0)	CYCEEXEC'CPL	CDH	STATUS	1	0	F-1024/00
F-1521	CIUFL_SSA1	CIU'FLAG'WORD(1)	CYCEEXEC'CPL	CDH	STATUS	1	1	F-1024/01
F-1522	CIUFL_SSA2	CIU'FLAG'WORD(2)	CYCEEXEC'CPL	CDH	STATUS	1	2	F-1024/02
F-1523	CIUFL_QTHz	CIU'FLAG'WORD(3)	CYCEEXEC'CPL	CDH	STATUS	1	3	F-1024/03
F-1524	CIUFL_HEcntl	CIU'FLAG'WORD(4)	CYCEEXEC'CPL	CDH	STATUS	1	4	F-1024/04
F-1525	CIUFL_IO_X	CIU'FLAG'WORD(5)	CYCEEXEC'CPL	CDH	STATUS	1	5	F-1024/05
F-1526	CIUFL_EDF1ok	CIU'FLAG'WORD(6)	CYCEEXEC'CPL	CDH	STATUS	1	6	F-1024/06

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1527	CIUFL_EDF2ok	CIU'FLAG'WORD(7)	CYCEEXEC'CPL	CDH	STATUS	1	7	F-1024/07
F-1528	CIUFL_MEcntl	CIU'FLAG'WORD(8)	CYCEEXEC'CPL	CDH	STATUS	1	8	F-1024/08
F-1529	CIUFL_MHSAs1P	CIU'FLAG'WORD(9)	CYCEEXEC'CPL	CDH	STATUS	1	9	F-1024/09
F-1530	CIUFL_MEok	CIU'FLAG'WORD(10)	CYCEEXEC'CPL	CDH	STATUS	1	10	F-1024/10
F-1531	CIUFL_HEok	CIU'FLAG'WORD(11)	CYCEEXEC'CPL	CDH	STATUS	1	11	F-1024/11
F-1532	CIUFL_BUSSel	CIU'FLAG'WORD(12)	CYCEEXEC'CPL	CDH	STATUS	1	12	F-1024/12
F-1533	CIUFL_CNTmod	CIU'FLAG'WORD(13)	CYCEEXEC'CPL	CDH	STATUS	1	13	F-1024/13
F-1534	CIUFL_MARSlc	CIU'FLAG'WORD(14)	CYCEEXEC'CPL	CDH	STATUS	1	14	F-1024/14
F-1535	CIUFL_DESR_B	CIU'FLAG'WORD(15)	CYCEEXEC'CPL	CDH	STATUS	1	15	F-1024/15
F-1540	CIXFL_ECHO	CIX'FLAG'WORD(0)	CYCEEXEC'CPL	CDH	STATUS	1	0	F-1026/00
F-1541	CIXFL_01	CIX'FLAG'WORD(1)	CYCEEXEC'CPL	CDH	STATUS	1	1	F-1026/01
F-1542	CIXFL_02	CIX'FLAG'WORD(2)	CYCEEXEC'CPL	CDH	STATUS	1	2	F-1026/02
F-1543	CIXFL_03	CIX'FLAG'WORD(3)	CYCEEXEC'CPL	CDH	STATUS	1	3	F-1026/03
F-1544	CIXFL_HEcntl	CIX'FLAG'WORD(4)	CYCEEXEC'CPL	CDH	STATUS	1	4	F-1026/04
F-1545	CIXFL_IO_X	CIX'FLAG'WORD(5)	CYCEEXEC'CPL	CDH	STATUS	1	5	F-1026/05
F-1546	CIXFL_06	CIX'FLAG'WORD(6)	CYCEEXEC'CPL	CDH	STATUS	1	6	F-1026/06
F-1547	CIXFL_07	CIX'FLAG'WORD(7)	CYCEEXEC'CPL	CDH	STATUS	1	7	F-1026/07
F-1548	CIXFL_MEcntl	CIX'FLAG'WORD(8)	CYCEEXEC'CPL	CDH	STATUS	1	8	F-1026/08
F-1549	CIXFL_09	CIX'FLAG'WORD(9)	CYCEEXEC'CPL	CDH	STATUS	1	9	F-1026/09
F-1550	CIXFL_10	CIX'FLAG'WORD(10)	CYCEEXEC'CPL	CDH	STATUS	1	10	F-1026/10
F-1551	CIXFL_11	CIX'FLAG'WORD(11)	CYCEEXEC'CPL	CDH	STATUS	1	11	F-1026/11
F-1552	CIXFL_BUSSel	CIX'FLAG'WORD(12)	CYCEEXEC'CPL	CDH	STATUS	1	12	F-1026/12
F-1553	CIXFL_13	CIX'FLAG'WORD(13)	CYCEEXEC'CPL	CDH	STATUS	1	13	F-1026/13
F-1554	CIXFL_14	CIX'FLAG'WORD(14)	CYCEEXEC'CPL	CDH	STATUS	1	14	F-1026/14
F-1555	CIXFL_DESR_B	CIX'FLAG'WORD(15)	CYCEEXEC'CPL	CDH	STATUS	1	15	F-1026/15
F-1560	DVDEAD1_BUS	DEVICE'DEAD'FLAG(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1034/00
F-1561	DVDEAD1_CLK	DEVICE'DEAD'FLAG(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1034/01
F-1562	DVDEAD1_SSA	DEVICE'DEAD'FLAG(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1034/02
F-1563	DVDEAD1_RWA	DEVICE'DEAD'FLAG(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1034/03
F-1564	DVDEAD1_IMU	DEVICE'DEAD'FLAG(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1034/04
F-1565	DVDEAD1_GYRO	DEVICE'DEAD'FLAG(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1034/05
F-1566	DVDEAD1_DTC	DEVICE'DEAD'FLAG(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1034/06
F-1567	DVDEAD1_EDF	DEVICE'DEAD'FLAG(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1034/07
F-1568	DVDEAD1_XSU	DEVICE'DEAD'FLAG(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1034/08
F-1569	DVDEAD1_RPA	DEVICE'DEAD'FLAG(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1034/09
F-1570	DVDEAD1_MOT	DEVICE'DEAD'FLAG(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1034/10
F-1571	DVDEAD1_PSE	DEVICE'DEAD'FLAG(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1034/11
F-1572	DVDEAD1_SAP	DEVICE'DEAD'FLAG(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1034/12
F-1573	DVDEAD1_HGA	DEVICE'DEAD'FLAG(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1034/13
F-1574	DVDEAD1_SAM	DEVICE'DEAD'FLAG(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1034/14
F-1575	DVDEAD1_AACS	DEVICE'DEAD'FLAG(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1034/15
F-1580	MEOK_OFFL	MEOK'INHIBIT'WORD(0)	CYCEEXEC'CPL	CDH	STATUS	1	0	F-1092/00
F-1581	MEOK_ERR	MEOK'INHIBIT'WORD(1)	CYCEEXEC'CPL	CDH	STATUS	1	1	F-1092/01
F-1582	MEOK_REQ	MEOK'INHIBIT'WORD(2)	CYCEEXEC'CPL	CDH	STATUS	1	2	F-1092/02
F-1583	MEOK_QUER	MEOK'INHIBIT'WORD(3)	CYCEEXEC'CPL	CDH	STATUS	1	3	F-1092/03
F-1584	MEOK_ROUT	MEOK'INHIBIT'WORD(4)	CYCEEXEC'CPL	CDH	STATUS	1	4	F-1092/04
F-1585	MEOK_UOUT	MEOK'INHIBIT'WORD(5)	CYCEEXEC'CPL	CDH	STATUS	1	5	F-1092/05
F-1586	MEOK_TOUT	MEOK'INHIBIT'WORD(6)	CYCEEXEC'CPL	CDH	STATUS	1	6	F-1092/06
F-1587	MEOK_POUT	MEOK'INHIBIT'WORD(7)	CYCEEXEC'CPL	CDH	STATUS	1	7	F-1092/07

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1588	MEOK_WKUP	MEOK'INHIBIT'WORD(8)	CYCEEXEC'CPL	CDH	STATUS	1	8	F-1092/08
F-1589	MEOK_STAK	MEOK'INHIBIT'WORD(9)	CYCEEXEC'CPL	CDH	STATUS	1	9	F-1092/09
F-1590	MEOK_SPARES	MEOK'INHIBIT'WORD(10)	CYCEEXEC'CPL	CDH	UNSIGNED	6	10	F-1092/10
F-1600	MINISEQ_ACTV	MINI'SEQ'STATUS(0)	MINI'SEQ'CPL	CDH	STATUS	1	0	F-1094/00
F-1601	MINISEQ_CMDE	MINI'SEQ'STATUS(1)	MINI'SEQ'CPL	CDH	STATUS	1	1	F-1094/01
F-1602	MINISEQ_TAGE	MINI'SEQ'STATUS(2)	MINI'SEQ'CPL	CDH	STATUS	1	2	F-1094/02
F-1603	MINISEQ_CNTC	MINI'SEQ'STATUS(3)	MINI'SEQ'CPL	CDH	STATUS	1	3	F-1094/03
F-1604	MINISEQ_COMP	MINI'SEQ'STATUS(4)	MINI'SEQ'CPL	CDH	STATUS	1	4	F-1094/04
F-1605	MINISEQ_05	MINI'SEQ'STATUS(5)	MINI'SEQ'CPL	CDH	UNSIGNED	3	5	F-1094/05
F-1608	MINISEQ_CEXC	MINI'SEQ'STATUS(8)	MINI'SEQ'CPL	CDH	UNSIGNED	8	8	F-1094/08
F-1620	MP_MGS_SEP1	MISSION'PHASE'BUFFER(0)	SMOEXEC'CPL	CDH	STATUS	1	0	F-1096/00
F-1621	MP_MPR3	MISSION'PHASE'BUFFER(1)	SMOEXEC'CPL	CDH	STATUS	1	1	F-1096/01
F-1622	MP_POB_ECHO1	MISSION'PHASE'BUFFER(2)	SMOEXEC'CPL	CDH	STATUS	1	2	F-1096/02
F-1623	MP_03	MISSION'PHASE'BUFFER(3)	SMOEXEC'CPL	CDH	STATUS	1	3	F-1096/03
F-1624	MP_MGS_SEP2	MISSION'PHASE'BUFFER(4)	SMOEXEC'CPL	CDH	STATUS	1	4	F-1096/04
F-1625	MP_MGS_SEP3	MISSION'PHASE'BUFFER(5)	SMOEXEC'CPL	CDH	STATUS	1	5	F-1096/05
F-1626	MP_MPR2	MISSION'PHASE'BUFFER(6)	SMOEXEC'CPL	CDH	STATUS	1	6	F-1096/06
F-1627	MP_POB_ECHO2	MISSION'PHASE'BUFFER(7)	SMOEXEC'CPL	CDH	STATUS	1	7	F-1096/07
F-1628	MP_MPR1	MISSION'PHASE'BUFFER(8)	SMOEXEC'CPL	CDH	STATUS	1	8	F-1096/08
F-1629	MP_LIFTOFF1	MISSION'PHASE'BUFFER(9)	SMOEXEC'CPL	CDH	STATUS	1	9	F-1096/09
F-1630	MP_MGS_SEP4	MISSION'PHASE'BUFFER(10)	SMOEXEC'CPL	CDH	STATUS	1	10	F-1096/10
F-1631	MP_LIFTOFF2	MISSION'PHASE'BUFFER(11)	SMOEXEC'CPL	CDH	STATUS	1	11	F-1096/11
F-1632	MP_POB_ECHO3	MISSION'PHASE'BUFFER(12)	SMOEXEC'CPL	CDH	STATUS	1	12	F-1096/12
F-1633	MP_SCP_ID	MISSION'PHASE'BUFFER(13)	SMOEXEC'CPL	CDH	STATUS	3	13	F-1096/13
F-1640	RDS1_SW_BUS	SWITCH'SUMMARY(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1348/00
F-1641	RDS1_SW_SSA	SWITCH'SUMMARY(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1348/01
F-1642	RDS1_SW_IMU	SWITCH'SUMMARY(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1348/02
F-1643	RDS1_SW_EDF	SWITCH'SUMMARY(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1348/03
F-1644	RDS1_SW_XSU	SWITCH'SUMMARY(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1348/04
F-1645	RDS1_SW_RPA	SWITCH'SUMMARY(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1348/05
F-1646	RDS1_SW_MOT	SWITCH'SUMMARY(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1348/06
F-1647	RDS1_SW_PSE	SWITCH'SUMMARY(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1348/07
F-1648	RDS1_SW_SAP	SWITCH'SUMMARY(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1348/08
F-1649	RDS1_SW_SAM	SWITCH'SUMMARY(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1348/09
F-1650	RDS1_SW_HGA	SWITCH'SUMMARY(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1348/10
F-1651	RDS1_SW_B11	SWITCH'SUMMARY(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1348/11
F-1652	RDS1_SW_B12	SWITCH'SUMMARY(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1348/12
F-1653	RDS1_SW_B13	SWITCH'SUMMARY(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1348/13
F-1654	RDS1_SW_B14	SWITCH'SUMMARY(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1348/14
F-1655	RDS1_SW_B15	SWITCH'SUMMARY(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1348/15
F-1660	AUTOEN2_MHSA	AUTONOMOUS'ENABLE(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1009/00
F-1661	AUTOEN2_CSA	AUTONOMOUS'ENABLE(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1009/01
F-1662	AUTOEN2_TANK	AUTONOMOUS'ENABLE(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1009/02
F-1663	AUTOEN2_REA	AUTONOMOUS'ENABLE(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1009/03
F-1664	AUTOEN2_SP04	AUTONOMOUS'ENABLE(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1009/04
F-1665	AUTOEN2_SP05	AUTONOMOUS'ENABLE(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1009/05
F-1666	AUTOEN2_SP06	AUTONOMOUS'ENABLE(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1009/06
F-1667	AUTOEN2_SP07	AUTONOMOUS'ENABLE(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1009/07
F-1668	AUTOEN2_SP08	AUTONOMOUS'ENABLE(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1009/08

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1669	AUTOEN2_SP09	AUTONOMOUS'ENABLE(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1009/09
F-1670	AUTOEN2_SP10	AUTONOMOUS'ENABLE(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1009/10
F-1671	AUTOEN2_SP11	AUTONOMOUS'ENABLE(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1009/11
F-1672	AUTOEN2_SP12	AUTONOMOUS'ENABLE(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1009/12
F-1673	AUTOEN2_SP13	AUTONOMOUS'ENABLE(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1009/13
F-1674	AUTOEN2_SP14	AUTONOMOUS'ENABLE(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1009/14
F-1675	AUTOEN2_SP15	AUTONOMOUS'ENABLE(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1009/15
F-1680	DVDEAD2_MHSA	DEVICE'DEAD'FLAG(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1035/00
F-1681	DVDEAD2_CSA	DEVICE'DEAD'FLAG(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1035/01
F-1682	DVDEAD2_TANK	DEVICE'DEAD'FLAG(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1035/02
F-1683	DVDEAD2_REA	DEVICE'DEAD'FLAG(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1035/03
F-1684	DVDEAD2_SP04	DEVICE'DEAD'FLAG(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1035/04
F-1685	DVDEAD2_SP05	DEVICE'DEAD'FLAG(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1035/05
F-1686	DVDEAD2_SP06	DEVICE'DEAD'FLAG(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1035/06
F-1687	DVDEAD2_SP07	DEVICE'DEAD'FLAG(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1035/07
F-1688	DVDEAD2_SP08	DEVICE'DEAD'FLAG(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1035/08
F-1689	DVDEAD2_SP09	DEVICE'DEAD'FLAG(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1035/09
F-1690	DVDEAD2_SP10	DEVICE'DEAD'FLAG(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1035/10
F-1691	DVDEAD2_SP11	DEVICE'DEAD'FLAG(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1035/11
F-1692	DVDEAD2_SP12	DEVICE'DEAD'FLAG(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1035/12
F-1693	DVDEAD2_SP13	DEVICE'DEAD'FLAG(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1035/13
F-1694	DVDEAD2_SP14	DEVICE'DEAD'FLAG(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1035/14
F-1695	DVDEAD2_SP15	DEVICE'DEAD'FLAG(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1035/15
F-1700	RDS2_TNKOP1L	SWITCH'SUMMARY(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1349/00
F-1701	RDS2_SPARE01	SWITCH'SUMMARY(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1349/01
F-1702	RDS2_TNKOP2L	SWITCH'SUMMARY(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1349/02
F-1703	RDS2_SPARE03	SWITCH'SUMMARY(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1349/03
F-1704	RDS2_TNKUPL	SWITCH'SUMMARY(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1349/04
F-1705	RDS2_SW2REA	SWITCH'SUMMARY(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1349/05
F-1706	RDS2_SW2SUNA	SWITCH'SUMMARY(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1349/06
F-1707	RDS2_SW_REA	SWITCH'SUMMARY(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1349/07
F-1708	RDS2_REA1ISO	SWITCH'SUMMARY(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1349/08
F-1709	RDS2_REA2ISO	SWITCH'SUMMARY(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1349/09
F-1710	RDS2_TWTAFIL	SWITCH'SUMMARY(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1349/10
F-1711	RDS2_SPARE11	SWITCH'SUMMARY(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1349/11
F-1712	RDS2_SPARE12	SWITCH'SUMMARY(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1349/12
F-1713	RDS2_SPARE13	SWITCH'SUMMARY(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1349/13
F-1714	RDS2_SPARE14	SWITCH'SUMMARY(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1349/14
F-1715	RDS2_SPARE15	SWITCH'SUMMARY(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1349/15
F-1720	RDM_DC1_SSA	MAIN'DEVICE'CONFIG'INFO(0)	REDMAN'CPL	AACS	STATUS	1	0	F-1237/00
F-1721	RDM_DC1_RPA	MAIN'DEVICE'CONFIG'INFO(1)	REDMAN'CPL	AACS	STATUS	1	1	F-1237/01
F-1722	RDM_DC1_EDF	MAIN'DEVICE'CONFIG'INFO(2)	REDMAN'CPL	AACS	STATUS	1	2	F-1237/02
F-1723	RDM_DC1_XSU	MAIN'DEVICE'CONFIG'INFO(3)	REDMAN'CPL	AACS	STATUS	1	3	F-1237/03
F-1724	RDM_DC1_PSE	MAIN'DEVICE'CONFIG'INFO(4)	REDMAN'CPL	AACS	STATUS	1	4	F-1237/04
F-1725	RDM_DC1_SAP	MAIN'DEVICE'CONFIG'INFO(5)	REDMAN'CPL	AACS	STATUS	1	5	F-1237/05
F-1726	RDM_DC1_SAM	MAIN'DEVICE'CONFIG'INFO(6)	REDMAN'CPL	AACS	STATUS	1	6	F-1237/06
F-1727	RDM_DC1_HGA	MAIN'DEVICE'CONFIG'INFO(7)	REDMAN'CPL	AACS	STATUS	1	7	F-1237/07
F-1728	RDM_DC1_MHSA	MAIN'DEVICE'CONFIG'INFO(8)	REDMAN'CPL	AACS	STATUS	1	8	F-1237/08
F-1729	RDM_DC1_SP09	MAIN'DEVICE'CONFIG'INFO(9)	REDMAN'CPL	AACS	STATUS	1	9	F-1237/09

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1730	RDM_DC1_SP10	MAIN'DEVICE'CONFIG'INFO(10)	REDMAN'CPL	AACS	STATUS	1	10	F-1237/10
F-1731	RDM_DC1_SP11	MAIN'DEVICE'CONFIG'INFO(11)	REDMAN'CPL	AACS	STATUS	1	11	F-1237/11
F-1732	RDM_DC1_SP12	MAIN'DEVICE'CONFIG'INFO(12)	REDMAN'CPL	AACS	STATUS	1	12	F-1237/12
F-1733	RDM_DC1_SP13	MAIN'DEVICE'CONFIG'INFO(13)	REDMAN'CPL	AACS	STATUS	1	13	F-1237/13
F-1734	RDM_DC1_SP14	MAIN'DEVICE'CONFIG'INFO(14)	REDMAN'CPL	AACS	STATUS	1	14	F-1237/14
F-1735	RDM_DC1_SP15	MAIN'DEVICE'CONFIG'INFO(15)	REDMAN'CPL	AACS	STATUS	1	15	F-1237/15
F-1740	RDM_DC2_GYRO	MAIN'DEVICE'CONFIG'INFO(0)	REDMAN'CPL	AACS	STATUS	3	0	F-1238/00
F-1743	RDM_DC2_RWA	MAIN'DEVICE'CONFIG'INFO(3)	REDMAN'CPL	AACS	STATUS	4	3	F-1238/03
F-1747	RDM_DC2_FRWA	MAIN'DEVICE'CONFIG'INFO(7)	REDMAN'CPL	AACS	STATUS	1	7	F-1238/07
F-1748	RDM_DC2_REA	MAIN'DEVICE'CONFIG'INFO(8)	REDMAN'CPL	AACS	STATUS	2	8	F-1238/08
F-1750	RDM_DC2_SP10	MAIN'DEVICE'CONFIG'INFO(10)	REDMAN'CPL	AACS	STATUS	1	10	F-1238/10
F-1751	RDM_DC2_SP11	MAIN'DEVICE'CONFIG'INFO(11)	REDMAN'CPL	AACS	STATUS	1	11	F-1238/11
F-1752	RDM_DC2_SP12	MAIN'DEVICE'CONFIG'INFO(12)	REDMAN'CPL	AACS	STATUS	1	12	F-1238/12
F-1753	RDM_DC2_SP13	MAIN'DEVICE'CONFIG'INFO(13)	REDMAN'CPL	AACS	STATUS	1	13	F-1238/13
F-1754	RDM_DC2_SP14	MAIN'DEVICE'CONFIG'INFO(14)	REDMAN'CPL	AACS	STATUS	1	14	F-1238/14
F-1755	RDM_DC2_SP15	MAIN'DEVICE'CONFIG'INFO(15)	REDMAN'CPL	AACS	STATUS	1	15	F-1238/15
F-1760	UPLS_CIUCARM	UPLINK'STATUS(0)	UPLINK'CPL	CDH	STATUS	1	0	F-1465/00
F-1761	UPLS_CIUCREJ	UPLINK'STATUS(1)	UPLINK'CPL	CDH	STATUS	1	1	F-1465/01
F-1762	UPLS_CIUCEXE	UPLINK'STATUS(2)	UPLINK'CPL	CDH	STATUS	1	2	F-1465/02
F-1763	UPLS_DBLEERR	UPLINK'STATUS(3)	UPLINK'CPL	CDH	STATUS	1	3	F-1465/03
F-1764	UPLS_SNG_ERR	UPLINK'STATUS(4)	UPLINK'CPL	CDH	STATUS	1	4	F-1465/04
F-1765	UPLS_DSTCODE	UPLINK'STATUS(5)	UPLINK'CPL	CDH	STATUS	2	5	F-1465/05
F-1767	UPLS_DATA_FR	UPLINK'STATUS(7)	UPLINK'CPL	CDH	STATUS	1	7	F-1465/07
F-1768	UPLS_SPARE08	UPLINK'STATUS(8)	UPLINK'CPL	CDH	STATUS	1	8	F-1465/08
F-1769	UPLS_SPARE09	UPLINK'STATUS(9)	UPLINK'CPL	CDH	STATUS	1	9	F-1465/09
F-1770	UPLS_SPARE10	UPLINK'STATUS(10)	UPLINK'CPL	CDH	STATUS	1	10	F-1465/10
F-1771	UPLS_SPARE11	UPLINK'STATUS(11)	UPLINK'CPL	CDH	STATUS	1	11	F-1465/11
F-1772	UPLS_SPARE12	UPLINK'STATUS(12)	UPLINK'CPL	CDH	STATUS	1	12	F-1465/12
F-1773	UPLS_BUFRDY	UPLINK'STATUS(13)	UPLINK'CPL	CDH	STATUS	1	13	F-1465/13
F-1774	UPLS_PICK_B	UPLINK'STATUS(14)	UPLINK'CPL	CDH	STATUS	1	14	F-1465/14
F-1775	UPLS_PICK_A	UPLINK'STATUS(15)	UPLINK'CPL	CDH	STATUS	1	15	F-1465/15
F-2001	BAT1_ASOC	BATT'ASOC(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2002	BAT1_TSOC	BATT'TSOC(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2003	BAT1_CDRATIO	CD'RATIO(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2004	BAT1_CDR_DN	DN'CD'RATIO(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2005	BAT1_INT_CHG	INTG'CHRG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2006	BAT1_INT_DCH	INTG'DCHG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2007	BAT1_CHG_I	CHRG'CURR(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2008	BAT1_CHG_I_F	FILT'CHRG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2009	BAT1_DCH_I	DCHG'CURR(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2010	BAT1_DCH_I_F	FILT'DCHG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2011	BAT1_TEMP_1	PACKA'TEMP(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2012	BAT1_TEMP_2	PACKB'TEMP(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2013	BAT1_TMP_AVE	AVRG'TEMP(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2014	BAT1_TMP_GRD	GRAD'TEMP(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2020	BAT1_BD_I_CT	BADCURR'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2021	BAT1_BD_T_CT	BADTEMP'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2022	BAT1_HI_D_CT	DCHG'HI'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2023	BAT1_HI_T_CT	HI'TEMP'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2024	BAT1_HI_V_CT	VOLT'HI'CNT(0)	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2025	BAT1_DAY_CT	BCUR'DAY'CNT(0)	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2026	BAT1_NTE_CT	BCUR'NITE'CNT(0)	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2030	BAT1_CP_CMD	CP'CMD(0)	POWER'MGMTCPL	PWR	STATUS	4	12	
F-2031	BAT1_CP_TLM	CP'TLM(0)	POWER'MGMTCPL	PWR	STATUS	4	12	
F-2032	BAT1_CR_CMD	CR'CMD(0)	POWER'MGMTCPL	PWR	STATUS	2	14	
F-2033	BAT1_CR_TLM	CR'TLM(0)	POWER'MGMTCPL	PWR	STATUS	2	14	
F-2034	BAT1_VTS_CMD	VT'SHFTS'CMD(0)	POWER'MGMTCPL	PWR	STATUS	1	15	
F-2035	BAT1_VTS_TLM	VT'SHFTS'TLM(0)	POWER'MGMTCPL	PWR	STATUS	1	15	
F-2036	BAT1_VT_CMD	VT'CMD(0)	POWER'MGMTCPL	PWR	STATUS	3	13	
F-2037	BAT1_VT_TLM	VT'TLM(0)	POWER'MGMTCPL	PWR	STATUS	3	13	
F-2040	BAT1_LAST_I	LAST'CURR'TLM(0)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2041	BAT1_LAST_T	LAST'TEMP'TLM(0)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2051	BAT2_ASOC	BATT'ASOC(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2052	BAT2_TSOC	BATT'TSOC(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2053	BAT2_CDRATIO	CD'RATIO(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2054	BAT2_CDR_DN	DN'CD'RATIO(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2055	BAT2_INT_CHG	INTG'CHRG(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2056	BAT2_INT_DCH	INTG'DCHG(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2057	BAT2_CHG_I	CHRG'CURR(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2058	BAT2_CHG_I_F	FILT'CHRG(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2059	BAT2_DCH_I	DCHG'CURR(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2060	BAT2_DCH_I_F	FILT'DCHG(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2061	BAT2_TEMP_1	PACKA'TEMP(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2062	BAT2_TEMP_2	PACKB'TEMP(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2063	BAT2_TMP_AVE	AVRG'TEMP(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2064	BAT2_TMP_GRD	GRADTEMP(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2070	BAT2_BD_I_CT	BAD'CURR'CNT(1)	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2071	BAT2_BD_T_CT	BAD'TEMP'CNT(1)	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2072	BAT2_HI_D_CT	DCHG'HI'CNT(1)	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2073	BAT2_HI_T_CT	HI'TEMP'CNT(1)	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2074	BAT2_HI_V_CT	VOLT'HI'CNT(1)	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2075	BAT2_DAY_CT	BCUR'DAY'CNT(1)	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2076	BAT2_NTE_CT	BCUR'NITE'CNT(1)	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2080	BAT2_CP_CMD	CP'CMD(1)	POWER'MGMTCPL	PWR	STATUS	4	12	
F-2081	BAT2_CP_TLM	CP'TLM(1)	POWER'MGMTCPL	PWR	STATUS	4	12	
F-2082	BAT2_CR_CMD	CR'CMD(1)	POWER'MGMTCPL	PWR	STATUS	2	14	
F-2083	BAT2_CR_TLM	CR'TLM(1)	POWER'MGMTCPL	PWR	STATUS	2	14	
F-2084	BAT2_VTS_CMD	VT'SHFTS'CMD(1)	POWER'MGMTCPL	PWR	STATUS	1	15	
F-2085	BAT2_VTS_TLM	VT'SHFTS'TLM(1)	POWER'MGMTCPL	PWR	STATUS	1	15	
F-2086	BAT2_VT_CMD	VT'CMD(1)	POWER'MGMTCPL	PWR	STATUS	3	13	
F-2087	BAT2_VT_TLM	VT'TLM(1)	POWER'MGMTCPL	PWR	STATUS	3	13	
F-2090	BAT2_LAST_I	LAST'CURR'TLM(1)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2091	BAT2_LAST_T	LAST'TEMP'TLM(1)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2101	PSE_CMDSENT1	PSE'CMD'SENT(1)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2102	PSE_CMDSENT2	PSE'CMD'SENT(2)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2103	PSE_CMDSENT3	PSE'CMD'SENT(3)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2104	PSE_CMDSENT4	PSE'CMD'SENT(4)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2105	PSE_CMDSENT5	PSE'CMD'SENT(5)	POWER'MGMTCPL	PWR	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2106	PSE_CMDSENT6	PSE'CMD'SENT(6)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2107	PSE_CMDSENT7	PSE'CMD'SENT(7)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2108	PSE_CMDSENT8	PSE'CMD'SENT(8)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2110	PSE_LAST_CMD	LASTPSE'CMD	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2111	PSE_QFULL_CNT	PSE'QUE'FULL'COUNT	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2121	SCSC_DAY_CNT	SCSC'DAY'CNT	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2122	SCSC_NTE_CNT	SCSC'NITE'CNT	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2123	SOLAR_DAY_CNT	SOLA'DAY'CNT	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2124	SOLAR_NTE_CNT	SOLA'NITE'CNT	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-2131	PWR_DATA_W01	POWER'DATA	SUBCOMCPL	PWR	DIGITAL	16	0	
F-2132	PWR_DATA_W07	POWER'DATA	SUBCOMCPL	PWR	DIGITAL	16	0	
F-2133	PWR_DATA_W08	POWER'DATA	SUBCOMCPL	PWR	DIGITAL	16	0	
F-2134	PWR_DATA_W09	POWER'DATA	SUBCOMCPL	PWR	DIGITAL	16	0	
F-2135	PWR_DATA_W10	POWER'DATA	SUBCOMCPL	PWR	DIGITAL	16	0	
F-2140	PWR_ENA_WORD	POWER'MGMT'ENABLE	POWER'MGMTPRESET	PWR	DIGITAL	16	0	F-2140
F-2145	PWR_FLGS_WRD	POWER'FLAGS	POWER'MGMTCPL	PWR	DIGITAL	16	0	F-2145
F-2150	PWR_STAT_WRD	POWER'STATUS	POWER'MGMTCPL	PWR	DIGITAL	16	0	F-2150
F-2155	VERIFY_STAT	VERIFY'STATUS	POWER'MGMTCPL	PWR	DIGITAL	16	0	F-2155
F-2200	PE00_B1TCntl	POWER'MGMT'ENABLE(0)	POWER'MGMTPRESET	PWR	STATUS	1	0	F-2140/00
F-2201	PE01_B2TCntl	POWER'MGMT'ENABLE(1)	POWER'MGMTPRESET	PWR	STATUS	1	1	F-2140/01
F-2202	PE02_B1Ifilt	POWER'MGMT'ENABLE(2)	POWER'MGMTPRESET	PWR	STATUS	1	2	F-2140/02
F-2203	PE03_B2Ifilt	POWER'MGMT'ENABLE(3)	POWER'MGMTPRESET	PWR	STATUS	1	3	F-2140/03
F-2204	PE04_B1ChCnt	POWER'MGMT'ENABLE(4)	POWER'MGMTPRESET	PWR	STATUS	1	4	F-2140/04
F-2205	PE05_B2ChCnt	POWER'MGMT'ENABLE(5)	POWER'MGMTPRESET	PWR	STATUS	1	5	F-2140/05
F-2206	PE06_B1ChRtR	POWER'MGMT'ENABLE(6)	POWER'MGMTPRESET	PWR	STATUS	1	6	F-2140/06
F-2207	PE07_B2ChRtR	POWER'MGMT'ENABLE(7)	POWER'MGMTPRESET	PWR	STATUS	1	7	F-2140/07
F-2208	PE08_BCR_Sw1	POWER'MGMT'ENABLE(8)	POWER'MGMTPRESET	PWR	STATUS	1	8	F-2140/08
F-2209	PE09_BCR_Sw2	POWER'MGMT'ENABLE(9)	POWER'MGMTPRESET	PWR	STATUS	1	9	F-2140/09
F-2210	PE10_CntAlrt	POWER'MGMT'ENABLE(10)	POWER'MGMTPRESET	PWR	STATUS	1	10	F-2140/10
F-2211	PE11_TlmVerf	POWER'MGMT'ENABLE(11)	POWER'MGMTPRESET	PWR	STATUS	1	11	F-2140/11
F-2212	PE12_IScript	POWER'MGMT'ENABLE(12)	POWER'MGMTPRESET	PWR	STATUS	1	12	F-2140/12
F-2213	PE13_EScript	POWER'MGMT'ENABLE(13)	POWER'MGMTPRESET	PWR	STATUS	1	13	F-2140/13
F-2220	PF00_B1B2Low	POWER'FLAGS(0)	POWER'MGMTCPL	PWR	STATUS	1	0	F-2145/00
F-2221	PF01_B1LoSOC	POWER'FLAGS(1)	POWER'MGMTCPL	PWR	STATUS	1	1	F-2145/01
F-2222	PF02_B1HiDcg	POWER'FLAGS(2)	POWER'MGMTCPL	PWR	STATUS	1	2	F-2145/02
F-2223	PF03_B1cdrHi	POWER'FLAGS(3)	POWER'MGMTCPL	PWR	STATUS	1	3	F-2145/03
F-2224	PF04_B1cdrLo	POWER'FLAGS(4)	POWER'MGMTCPL	PWR	STATUS	1	4	F-2145/04
F-2225	PF05_B1T3rdW	POWER'FLAGS(5)	POWER'MGMTCPL	PWR	STATUS	1	5	F-2145/05
F-2226	PF06_B1T2ndW	POWER'FLAGS(6)	POWER'MGMTCPL	PWR	STATUS	1	6	F-2145/06
F-2227	PF07_B1T1stW	POWER'FLAGS(7)	POWER'MGMTCPL	PWR	STATUS	1	7	F-2145/07
F-2228	PF08_B1B2Chg	POWER'FLAGS(8)	POWER'MGMTCPL	PWR	STATUS	1	8	F-2145/08
F-2229	PF09_B2LoSOC	POWER'FLAGS(9)	POWER'MGMTCPL	PWR	STATUS	1	9	F-2145/09
F-2230	PF10_B2HiDcg	POWER'FLAGS(10)	POWER'MGMTCPL	PWR	STATUS	1	10	F-2145/10
F-2231	PF11_B2cdrHi	POWER'FLAGS(11)	POWER'MGMTCPL	PWR	STATUS	1	11	F-2145/11
F-2232	PF12_B2cdrLo	POWER'FLAGS(12)	POWER'MGMTCPL	PWR	STATUS	1	12	F-2145/12
F-2233	PF13_B2T3rdW	POWER'FLAGS(13)	POWER'MGMTCPL	PWR	STATUS	1	13	F-2145/13
F-2234	PF14_B2T2ndW	POWER'FLAGS(14)	POWER'MGMTCPL	PWR	STATUS	1	14	F-2145/14
F-2235	PF15_B2T1stW	POWER'FLAGS(15)	POWER'MGMTCPL	PWR	STATUS	1	15	F-2145/15
F-2240	PS00_MC_Cmds	POWER'STATUS(0)	POWER'MGMTCPL	PWR	STATUS	1	0	F-2150/00

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2241	PS01_B1_LwVT	POWER'STATUS(1)	POWER'MGMT'CPL	PWR	STATUS	1	1	F-2150/01
F-2242	PS02_B1_CRR	POWER'STATUS(2)	POWER'MGMT'CPL	PWR	STATUS	1	2	F-2150/02
F-2243	PS03_B1_Itlm	POWER'STATUS(3)	POWER'MGMT'CPL	PWR	STATUS	1	3	F-2150/03
F-2244	PS04_B1_DTC	POWER'STATUS(4)	POWER'MGMT'CPL	PWR	STATUS	1	4	F-2150/04
F-2245	PS05_B1_BCR	POWER'STATUS(5)	POWER'MGMT'CPL	PWR	STATUS	1	5	F-2150/05
F-2246	PS06_B1_VT	POWER'STATUS(6)	POWER'MGMT'CPL	PWR	STATUS	1	6	F-2150/06
F-2247	PS07_B1_Tilm	POWER'STATUS(7)	POWER'MGMT'CPL	PWR	STATUS	1	7	F-2150/07
F-2248	PS08_SUN_ON	POWER'STATUS(8)	POWER'MGMT'CPL	PWR	STATUS	1	8	F-2150/08
F-2249	PS09_B2_LwVT	POWER'STATUS(9)	POWER'MGMT'CPL	PWR	STATUS	1	9	F-2150/09
F-2250	PS10_B2_CRR	POWER'STATUS(10)	POWER'MGMT'CPL	PWR	STATUS	1	10	F-2150/10
F-2251	PS11_B2_Itlm	POWER'STATUS(11)	POWER'MGMT'CPL	PWR	STATUS	1	11	F-2150/11
F-2252	PS12_B2_DTC	POWER'STATUS(12)	POWER'MGMT'CPL	PWR	STATUS	1	12	F-2150/12
F-2253	PS13_B2_BCR	POWER'STATUS(13)	POWER'MGMT'CPL	PWR	STATUS	1	13	F-2150/13
F-2254	PS14_B2_VT	POWER'STATUS(14)	POWER'MGMT'CPL	PWR	STATUS	1	14	F-2150/14
F-2255	PS15_B2_Tilm	POWER'STATUS(15)	POWER'MGMT'CPL	PWR	STATUS	1	15	F-2150/15
F-2260	VS00_B1_VT	VERIFY'STAT(0)	POWER'MGMT'CPL	PWR	STATUS	1	0	F-2155/00
F-2261	VS01_B2_VT	VERIFY'STAT(1)	POWER'MGMT'CPL	PWR	STATUS	1	1	F-2155/01
F-2262	VS02_B1B2_VT	VERIFY'STAT(2)	POWER'MGMT'CPL	PWR	STATUS	1	2	F-2155/02
F-2263	VS03_B1_CR	VERIFY'STAT(3)	POWER'MGMT'CPL	PWR	STATUS	1	3	F-2155/03
F-2264	VS04_B2_CR	VERIFY'STAT(4)	POWER'MGMT'CPL	PWR	STATUS	1	4	F-2155/04
F-2265	VS05_B1B2_CR	VERIFY'STAT(5)	POWER'MGMT'CPL	PWR	STATUS	1	5	F-2155/05
F-2266	VS06_MC_BVR	VERIFY'STAT(6)	POWER'MGMT'CPL	PWR	STATUS	1	6	F-2155/06
F-2267	VS07_CHGPATH	VERIFY'STAT(7)	POWER'MGMT'CPL	PWR	STATUS	1	7	F-2155/07
F-2268	VS08_B1_VT	VERIFY'STAT(8)	POWER'MGMT'CPL	PWR	STATUS	1	8	F-2155/08
F-2269	VS09_B2_VT	VERIFY'STAT(9)	POWER'MGMT'CPL	PWR	STATUS	1	9	F-2155/09
F-2270	VS10_B1B2_VT	VERIFY'STAT(10)	POWER'MGMT'CPL	PWR	STATUS	1	10	F-2155/10
F-2271	VS11_B1_CR	VERIFY'STAT(11)	POWER'MGMT'CPL	PWR	STATUS	1	11	F-2155/11
F-2272	VS12_B2_CR	VERIFY'STAT(12)	POWER'MGMT'CPL	PWR	STATUS	1	12	F-2155/12
F-2273	VS13_B1B2_CR	VERIFY'STAT(13)	POWER'MGMT'CPL	PWR	STATUS	1	13	F-2155/13
F-2274	VS14_MC_BVR	VERIFY'STAT(14)	POWER'MGMT'CPL	PWR	STATUS	1	14	F-2155/14
F-2275	VS15_CHGPATH	VERIFY'STAT(15)	POWER'MGMT'CPL	PWR	STATUS	1	15	F-2155/15
F-2280	POWER_TIME	POWERTIME	CYCEXEC'CPL	PWR	UNSIGNED	16	0	
F-2500	BSC_EM-X_T1	BAD'SUBCOM'CNTRS(0)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2501	BSC_EM+X_T1	BAD'SUBCOM'CNTRS(1)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2502	BSC_EM+Y_T1	BAD'SUBCOM'CNTRS(2)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2503	BSC_BAT1_T1	BAD'SUBCOM'CNTRS(3)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2504	BSC_BAT1_T2	BAD'SUBCOM'CNTRS(4)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2505	BSC_BAT2_T1	BAD'SUBCOM'CNTRS(5)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2506	BSC_BAT2_T2	BAD'SUBCOM'CNTRS(6)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2507	BSC_THR_CL1T	BAD'SUBCOM'CNTRS(7)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2508	BSC_THR_CL2T	BAD'SUBCOM'CNTRS(8)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2509	BSC_THR_CL3T	BAD'SUBCOM'CNTRS(9)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2510	BSC_THR_CL4T	BAD'SUBCOM'CNTRS(10)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2511	BSC_NTOtnkT1	BAD'SUBCOM'CNTRS(11)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2512	BSC_NTOtnkT2	BAD'SUBCOM'CNTRS(12)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2513	BSC_HYtnk1T1	BAD'SUBCOM'CNTRS(13)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2514	BSC_HYtnk1T2	BAD'SUBCOM'CNTRS(14)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2515	BSC_HYtnk2T1	BAD'SUBCOM'CNTRS(15)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2516	BSC_HYtnk2T2	BAD'SUBCOM'CNTRS(16)	THERMAL'CPL	THRM	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2517	BSC_PRCNT1_T	BAD'SUBCOM'CNTRS(17)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2518	BSC_PRCNT2_T	BAD'SUBCOM'CNTRS(18)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2519	BSC_SUPVC3_T	BAD'SUBCOM'CNTRS(19)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2520	BSC_SUPVC4_T	BAD'SUBCOM'CNTRS(20)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2521	BSC_SUPVC1_T	BAD'SUBCOM'CNTRS(21)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2522	BSC_SUPVC2_T	BAD'SUBCOM'CNTRS(22)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2523	BSC_TWTenc1T	BAD'SUBCOM'CNTRS(23)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2524	BSC_HGAgim1T	BAD'SUBCOM'CNTRS(24)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2525	BSC_HGAgim2T	BAD'SUBCOM'CNTRS(25)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2526	BSC_SA-Ygm1T	BAD'SUBCOM'CNTRS(26)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2527	BSC_SA-Ygm2T	BAD'SUBCOM'CNTRS(27)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2528	BSC_SA+Ygm1T	BAD'SUBCOM'CNTRS(28)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2529	BSC_SA+Ygm2T	BAD'SUBCOM'CNTRS(29)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2530	BSC_ME_VLVT1	BAD'SUBCOM'CNTRS(30)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2531	BSC_MHSA_H_T	BAD'SUBCOM'CNTRS(31)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2532	BSC_CSA_T	BAD'SUBCOM'CNTRS(32)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2533	BSC_XSU_T	BAD'SUBCOM'CNTRS(33)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2534	BSC_IMU_BLKT	BAD'SUBCOM'CNTRS(34)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2560	DTC_ENABLES	THERMAL'PARAMETERS	THERMAL'PRESET	THRM	DIGITAL	16	0	
F-2565	DTC_PRI_STAT	PRI'DTCS'OFF	THERMAL'CPL	THRM	DIGITAL	16	0	F-2565
F-2570	DTC_WARN_FLG	THERM'DTC'STATUS	THERMAL'CPL	THRM	DIGITAL	16	0	F-2570
F-2575	XSU_MSG_ENAB	XSUMSG'ENABLE	THERMAL'CPL	THRM	DIGITAL	16	0	
F-2720	DPS_EM-X	PRI'DTCS'OFF(0)	THERMAL'CPL	THRM	STATUS	1	0	F-2565/00
F-2721	DPS_PRS_CL2	PRI'DTCS'OFF(1)	THERMAL'CPL	THRM	STATUS	1	1	F-2565/01
F-2722	DPS_BATTERY	PRI'DTCS'OFF(2)	THERMAL'CPL	THRM	STATUS	1	2	F-2565/02
F-2723	DPS_THR_ENCL	PRI'DTCS'OFF(3)	THERMAL'CPL	THRM	STATUS	1	3	F-2565/03
F-2724	DPS_PROP_TNK	PRI'DTCS'OFF(4)	THERMAL'CPL	THRM	STATUS	1	4	F-2565/04
F-2725	DPS_SUPVvCL	PRI'DTCS'OFF(5)	THERMAL'CPL	THRM	STATUS	1	5	F-2565/05
F-2726	DPS_MAIN_ENG	PRI'DTCS'OFF(6)	THERMAL'CPL	THRM	STATUS	1	6	F-2565/06
F-2727	DPS_TWT_HGgm	PRI'DTCS'OFF(7)	THERMAL'CPL	THRM	STATUS	1	7	F-2565/07
F-2728	DPS_IMU_TCA	PRI'DTCS'OFF(8)	THERMAL'CPL	THRM	STATUS	1	8	F-2565/08
F-2729	DPS_SA-Y_GIM	PRI'DTCS'OFF(9)	THERMAL'CPL	THRM	STATUS	1	9	F-2565/09
F-2730	DPS_MHSA	PRI'DTCS'OFF(10)	THERMAL'CPL	THRM	STATUS	1	10	F-2565/10
F-2731	DPS_CSA	PRI'DTCS'OFF(11)	THERMAL'CPL	THRM	STATUS	1	11	F-2565/11
F-2732	DPS_SA+Y_GIM	PRI'DTCS'OFF(12)	THERMAL'CPL	THRM	STATUS	1	12	F-2565/12
F-2733	DPS_EM+Y	PRI'DTCS'OFF(13)	THERMAL'CPL	THRM	STATUS	1	13	F-2565/13
F-2734	DPS_PRS_CL1	PRI'DTCS'OFF(14)	THERMAL'CPL	THRM	STATUS	1	14	F-2565/14
F-2735	DPS_EM+X	PRI'DTCS'OFF(15)	THERMAL'CPL	THRM	STATUS	1	15	F-2565/15
F-2740	DWF_EM-X	THERM'DTC'STATUS(0)	THERMAL'CPL	THRM	STATUS	1	0	F-2570/00
F-2741	DWF_PRS_CL2	THERM'DTC'STATUS(1)	THERMAL'CPL	THRM	STATUS	1	1	F-2570/01
F-2742	DWF_BATTERY	THERM'DTC'STATUS(2)	THERMAL'CPL	THRM	STATUS	1	2	F-2570/02
F-2743	DWF_THR_ENCL	THERM'DTC'STATUS(3)	THERMAL'CPL	THRM	STATUS	1	3	F-2570/03
F-2744	DWF_PROP_TNK	THERM'DTC'STATUS(4)	THERMAL'CPL	THRM	STATUS	1	4	F-2570/04
F-2745	DWF_SUPVvCL	THERM'DTC'STATUS(5)	THERMAL'CPL	THRM	STATUS	1	5	F-2570/05
F-2746	DWF_MAIN_ENG	THERM'DTC'STATUS(6)	THERMAL'CPL	THRM	STATUS	1	6	F-2570/06
F-2747	DWF_TWT_HGgm	THERM'DTC'STATUS(7)	THERMAL'CPL	THRM	STATUS	1	7	F-2570/07
F-2748	DWF_IMU_TCA	THERM'DTC'STATUS(8)	THERMAL'CPL	THRM	STATUS	1	8	F-2570/08
F-2749	DWF_SA-Y_GIM	THERM'DTC'STATUS(9)	THERMAL'CPL	THRM	STATUS	1	9	F-2570/09
F-2750	DWF_MHSA	THERM'DTC'STATUS(10)	THERMAL'CPL	THRM	STATUS	1	10	F-2570/10

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2751	DWF_CSA	THERM'DTC'STATUS(11)	THERMAL'CPL	THRM	STATUS	1	11	F-2570/11
F-2752	DWF_SA+Y_GIM	THERM'DTC'STATUS(12)	THERMAL'CPL	THRM	STATUS	1	12	F-2570/12
F-2753	DWF_EM+Y	THERM'DTC'STATUS(13)	THERMAL'CPL	THRM	STATUS	1	13	F-2570/13
F-2754	DWF_PRS_CL1	THERM'DTC'STATUS(14)	THERMAL'CPL	THRM	STATUS	1	14	F-2570/14
F-2755	DWF_EM+X	THERM'DTC'STATUS(15)	THERMAL'CPL	THRM	STATUS	1	15	F-2570/15
F-3000	BEAM_DELAY	CONTINGENCY'BEAM'ON'DELAY	TELECOM'PRESET	TLCM	UNSIGNED	16	0	
F-3010	CMD_LOSS_TMR	COMMAND'LOSS'TIMER	TELECOM'INIT	TLCM	UNSIGNED	16	0	
F-3020	LGA_CYCLE	LGA'CYCLE'PERIOD	TELECOM'PRESET	TLCM	UNSIGNED	16	0	
F-3021	LGA_TIMER	LGA'CYCLE'TIMER	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-3030	PDS_MAXnotOK	MAX'CONSEC'PDS'NOT'OK	TELECOM'PRESET	TLCM	UNSIGNED	16	0	
F-3031	PDS_notOK_CT	TOTAL'PDS'NOT'OK'COUNT	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-3040	TLCM_DSW1	TELECOM'DISCRETES	TELECOM'CPL	TLCM	DIGITAL	16	0	F-3040
F-3042	TLCM_DSW2	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	DIGITAL	16	0	F-3042
F-3044	TLCM_MODE	TELECOM'MODE	TELECOM'CPL	TLCM	STATUS	3	13	
F-3046	TLCM_PARM	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	DIGITAL	16	0	F-3046
F-3050	TLCM_SEQ_TD	TELECOM'CMD'SEQTIME'DELAY	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-3051	TLCM_SUBCOM1	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3052	TLCM_SUBCOM2	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3053	TLCM_SUBCOM3	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3054	TLCM_SUBCOM4	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3055	TLCM_SUBCOM5	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3060	UPLK_TIMEOUT	UPLINK'TIMEOUT	TELECOM'INIT	TLCM	UNSIGNED	16	0	
F-3100	XSU_CMD_WORD	XSU'CMDWORD	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3101	XSU_Q_COUNT	XSU'QUE'COUNT	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-3102	XSU_Q_FULL	XSU'QUE'FULL'COUNT	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-3200	TD1_UPL_ANT	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	0	F-3040/00
F-3201	TD1_SEL_MOT	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	1	F-3040/01
F-3202	TD1_SEL_RPA	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	2	F-3040/02
F-3203	TD1_SEL_XSU	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	3	F-3040/03
F-3204	TD1_MOT_EXC	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	4	F-3040/04
F-3205	TD1_RPA_BEAM	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	5	F-3040/05
F-3206	TD1_TLCM_CMD	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	6	F-3040/06
F-3207	TD1_BEAM_UP	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	7	F-3040/07
F-3208	TD1_TLCM_SUB	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	8	F-3040/08
F-3209	TD1_MOT_CHKD	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	9	F-3040/09
F-3210	TD1_MOToutOK	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	10	F-3040/10
F-3211	TD1_RPA_CHKD	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	11	F-3040/11
F-3212	TD1_USO_ENAB	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	12	F-3040/12
F-3213	TD1_PDSnotOK	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	13	F-3040/13
F-3214	TD1_SPARE14	TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	14	F-3040/14
F-3215	TD1_SPARE15	TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	15	F-3040/15
F-3220	TD2_TWTA_ST	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	0	F-3042/00
F-3221	TD2_PWR_MGMT	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	1	F-3042/01
F-3222	TD2_TWTApnEN	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	2	F-3042/02
F-3223	TD2_DNL_ANT	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	2	3	F-3042/03
F-3225	TD2_RPA1_H_I	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	5	F-3042/05
F-3226	TD2_RPA2_H_I	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	6	F-3042/06
F-3227	TD2_TWTA1sHV	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	7	F-3042/07
F-3228	TD2_TWTA2sHV	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	8	F-3042/08

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-3229	TD2_TRNofFIL	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	9	F-3042/09
F-3230	TD2_BEAMcmON	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	10	F-3042/10
F-3231	TD2_TRNonFIL	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	11	F-3042/11
F-3232	TD2_SPARE12	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	12	F-3042/12
F-3233	TD2_SPARE13	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	13	F-3042/13
F-3234	TD2_SPARE14	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	14	F-3042/14
F-3235	TD2_SPARE15	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	15	F-3042/15
F-3240	TDP_MOTrcvTL	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	0	F-3046/00
F-3241	TDP_MOTexcTL	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	1	F-3046/01
F-3242	TDP_RPA_TLM	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	2	F-3046/02
F-3243	TDP_PDS_TLM	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	3	F-3046/03
F-3244	TDP_RFinSW_T	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	4	F-3046/04
F-3245	TDP_RFouSW_T	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	5	F-3046/05
F-3246	TDP_SPARE06	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	UNSIGNED	1	6	F-3046/06
F-3247	TDP_SPARE07	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	UNSIGNED	1	7	F-3046/07
F-3248	TDP_MOTequST	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	8	F-3046/08
F-3250	TDP_RPAeqUST	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	10	F-3046/10
F-3252	TDP_RFinSW_S	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	12	F-3046/12
F-3254	TDP_RFouSW_S	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	14	F-3046/14

Appendix D2

SCP Telemetry Index (By MOS Mnemonic)

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Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0000	AACS_STATE	ATTITUDE'CNTRL'STATE	AACS2'GLOBAL'CPL	AACS	STATUS	4	12	
F-0004	ACC_BIAS_+S	CAL'ACC'BIAS(3)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0003	ACC_BIAS_+Z	CAL'ACC'BIAS(0)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0001	ACC_BIAS_-X	CAL'ACC'BIAS(1)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0002	ACC_BIAS_-Y	CAL'ACC'BIAS(2)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0605	ANS_AUTO_ENA	ATT'ENABS(5)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	5	F-0005/05
F-0902	ASN_CM_ACT	NEW'AACS'STATUS(2)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	2	F-0009/02
F-0904	ASN_CNTR_FLT	NEW'AACS'STATUS(4)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	4	F-0009/04
F-0900	ASN_CSAoffst	NEW'AACS'STATUS(0)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	0	F-0009/00
F-0908	ASN_EOD	NEW'AACS'STATUS(8)	AACS2'GLOBAL'PRESET	AACS	STATUS	2	8	F-0009/08
F-0901	ASN_NOM_ACT	NEW'AACS'STATUS(1)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	1	F-0009/01
F-0905	ASN_RWA_STIC	NEW'AACS'STATUS(5)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	5	F-0009/05
F-0906	ASN_SPARE_06	NEW'AACS'STATUS(6)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	6	F-0009/06
F-0907	ASN_SPARE_07	NEW'AACS'STATUS(7)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	7	F-0009/07
F-0912	ASN_SPARE_12	NEW'AACS'STATUS(12)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	12	F-0009/12
F-0913	ASN_SPARE_13	NEW'AACS'STATUS(13)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	13	F-0009/13
F-0914	ASN_SPARE_14	NEW'AACS'STATUS(14)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	14	F-0009/14
F-0915	ASN_SPARE_15	NEW'AACS'STATUS(15)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	15	F-0009/15
F-0903	ASN_THR_LEAK	NEW'AACS'STATUS(3)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	3	F-0009/03
F-0910	ASN_THR_SEL	NEW'AACS'STATUS(10)	AACS2'GLOBAL'PRESET	AACS	STATUS	2	10	F-0009/10
F-0005	ATT_ENABLES	ATT'ENABS	AACS2'GLOBAL'PRESET	AACS	DIGITAL	16	0	F-0005
F-0612	ATT_ENAB_12	ATT'ENABS(12)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	12	F-0005/12
F-0613	ATT_ENAB_13	ATT'ENABS(13)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	13	F-0005/13
F-0614	ATT_ENAB_14	ATT'ENABS(14)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	14	F-0005/14
F-0615	ATT_ENAB_15	ATT'ENABS(15)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	15	F-0005/15
F-0009	ATT_STAT_NEW	NEW'AACS'STATUS	AACS2'GLOBAL'PRESET	AACS	DIGITAL	16	0	F-0009
F-1000	AUDIT_Q_CNT	AUDITQUE'DESCRIPTOR	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1001	AUDIT_Q_LOST	AUDITQUE'DESCRIPTOR	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1002	AUDIT_Q_W1	AUDITQUE'MSG'TYPE	AUDITQUE'CPL	CDH	UNSIGNED	16	0	
F-1003	AUDIT_Q_W2-3	AUDITQUE'TIMETAG	AUDITQUE'CPL	CDH	UNSIGNED	32	0	
F-1004	AUDIT_Q_W4	DIAGNOSTIC'DATA'1	AUDITQUE'CPL	CDH	DIGITAL	16	0	
F-1005	AUDIT_Q_W5	DIAGNOSTIC'DATA'2	AUDITQUE'CPL	CDH	DIGITAL	16	0	
F-1515	AUTOEN1_ATT	AUTONOMOUS'ENABLE(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1008/15
F-1500	AUTOEN1_BUS	AUTONOMOUS'ENABLE(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1008/00
F-1501	AUTOEN1_CLK	AUTONOMOUS'ENABLE(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1008/01
F-1506	AUTOEN1_DTC	AUTONOMOUS'ENABLE(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1008/06
F-1507	AUTOEN1_EDF	AUTONOMOUS'ENABLE(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1008/07
F-1505	AUTOEN1_GYR	AUTONOMOUS'ENABLE(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1008/05
F-1513	AUTOEN1_HGA	AUTONOMOUS'ENABLE(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1008/13
F-1504	AUTOEN1_IMU	AUTONOMOUS'ENABLE(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1008/04
F-1510	AUTOEN1_MOT	AUTONOMOUS'ENABLE(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1008/10
F-1511	AUTOEN1_PSE	AUTONOMOUS'ENABLE(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1008/11
F-1503	AUTOEN1_RWA	AUTONOMOUS'ENABLE(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1008/03
F-1514	AUTOEN1_SAM	AUTONOMOUS'ENABLE(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1008/14
F-1512	AUTOEN1_SAP	AUTONOMOUS'ENABLE(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1008/12
F-1502	AUTOEN1_SSA	AUTONOMOUS'ENABLE(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1008/02
F-1509	AUTOEN1_TWT	AUTONOMOUS'ENABLE(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1008/09
F-1508	AUTOEN1_XSU	AUTONOMOUS'ENABLE(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1008/08
F-1661	AUTOEN2_CSA	AUTONOMOUS'ENABLE(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1009/01

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1660	AUTOEN2_MHSA	AUTONOMOUS'ENABLE(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1009/00
F-1663	AUTOEN2_REA	AUTONOMOUS'ENABLE(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1009/03
F-1664	AUTOEN2_SP04	AUTONOMOUS'ENABLE(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1009/04
F-1665	AUTOEN2_SP05	AUTONOMOUS'ENABLE(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1009/05
F-1666	AUTOEN2_SP06	AUTONOMOUS'ENABLE(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1009/06
F-1667	AUTOEN2_SP07	AUTONOMOUS'ENABLE(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1009/07
F-1668	AUTOEN2_SP08	AUTONOMOUS'ENABLE(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1009/08
F-1669	AUTOEN2_SP09	AUTONOMOUS'ENABLE(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1009/09
F-1670	AUTOEN2_SP10	AUTONOMOUS'ENABLE(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1009/10
F-1671	AUTOEN2_SP11	AUTONOMOUS'ENABLE(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1009/11
F-1672	AUTOEN2_SP12	AUTONOMOUS'ENABLE(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1009/12
F-1673	AUTOEN2_SP13	AUTONOMOUS'ENABLE(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1009/13
F-1674	AUTOEN2_SP14	AUTONOMOUS'ENABLE(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1009/14
F-1675	AUTOEN2_SP15	AUTONOMOUS'ENABLE(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1009/15
F-1662	AUTOEN2_TANK	AUTONOMOUS'ENABLE(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1009/02
F-1008	AUTOENAB_1	AUTONOMOUS'ENABLE	REDMAN'CPL	CDH	DIGITAL	16	0	F-1008
F-1009	AUTOENAB_2	AUTONOMOUS'ENABLE	REDMAN'CPL	CDH	DIGITAL	16	0	F-1009
F-2001	BAT1_ASOC	BATT'ASOC(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2020	BAT1_BD_I_CT	BAD'CURR'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2021	BAT1_BD_T_CT	BAD'TEMP'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2003	BAT1_CDRATIO	CD'RATIO(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2004	BAT1_CDR_DN	DN'CD'RATIO(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2007	BAT1_CHG_I	CHRG'CURR(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2008	BAT1_CHG_I_F	FILT'CHRG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2030	BAT1_CP_CMD	CP'CMD(0)	POWER'MGMT'CPL	PWR	STATUS	4	12	
F-2031	BAT1_CP_TLM	CP'TLM(0)	POWER'MGMT'CPL	PWR	STATUS	4	12	
F-2032	BAT1_CR_CMD	CR'CMD(0)	POWER'MGMT'CPL	PWR	STATUS	2	14	
F-2033	BAT1_CR_TLM	CR'TLM(0)	POWER'MGMT'CPL	PWR	STATUS	2	14	
F-2025	BAT1_DAY_CT	BCUR'DAY'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2009	BAT1_DCH_I	DCHG'CURR(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2010	BAT1_DCH_I_F	FILT'DCHG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2022	BAT1_HI_D_CT	DCHG'HI'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2023	BAT1_HI_T_CT	HI'TEMP'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2024	BAT1_HI_V_CT	VOLT'HI'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2005	BAT1_INT_CHG	INTG'CHRG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2006	BAT1_INT_DCH	INTG'DCHG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2040	BAT1_LAST_I	LAST'CURR'TLM(0)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2041	BAT1_LAST_T	LAST'TEMP'TLM(0)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2026	BAT1_NTE_CT	BCUR'NITE'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2011	BAT1_TEMP_1	PACKA'TEMP(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2012	BAT1_TEMP_2	PACKB'TEMP(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2013	BAT1_TMP_AVE	AVRG'TEMP(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2014	BAT1_TMP_GRD	GRAD'TEMP(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2002	BAT1_TSOC	BATT'TSOC(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2034	BAT1_VTS_CMD	VT'SHFTS'CMD(0)	POWER'MGMT'CPL	PWR	STATUS	1	15	
F-2035	BAT1_VTS_TLM	VT'SHFTS'TLM(0)	POWER'MGMT'CPL	PWR	STATUS	1	15	
F-2036	BAT1_VT_CMD	VT'CMD(0)	POWER'MGMT'CPL	PWR	STATUS	3	13	
F-2037	BAT1_VT_TLM	VT'TLM(0)	POWER'MGMT'CPL	PWR	STATUS	3	13	
F-2051	BAT2_ASOC	BATT'ASOC(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2070	BAT2_BD_I_CT	BAD'CURR'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2071	BAT2_BD_T_CT	BAD'TEMP'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2053	BAT2_CDRATIO	CD'RATIO(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2054	BAT2_CDR_DN	DN'CD'RATIO(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2057	BAT2_CHG_I	CHRG'CURR(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2058	BAT2_CHG_I_F	FILT'CHRG(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2080	BAT2_CP_CMD	CP'CMD(1)	POWER'MGMT'CPL	PWR	STATUS	4	12	
F-2081	BAT2_CP_TLM	CP'TLM(1)	POWER'MGMT'CPL	PWR	STATUS	4	12	
F-2082	BAT2_CR_CMD	CR'CMD(1)	POWER'MGMT'CPL	PWR	STATUS	2	14	
F-2083	BAT2_CR_TLM	CR'TLM(1)	POWER'MGMT'CPL	PWR	STATUS	2	14	
F-2075	BAT2_DAY_CT	BCUR'DAY'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2059	BAT2_DCH_I	DCHG'CURR(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2060	BAT2_DCH_I_F	FILT'DCHG(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2072	BAT2_HI_D_CT	DCHG'HI'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2073	BAT2_HI_T_CT	HI'TEMP'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2074	BAT2_HI_V_CT	VOLT'HI'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2055	BAT2_INT_CHG	INTG'CHRG(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2056	BAT2_INT_DCH	INTG'DCHG(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2090	BAT2_LAST_I	LAST'CURR'TLM(1)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2091	BAT2_LAST_T	LAST'TEMP'TLM(1)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2076	BAT2_NTE_CT	BCUR'NITE'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2061	BAT2_TEMP_1	PACKA'TEMP(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2062	BAT2_TEMP_2	PACKB'TEMP(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2063	BAT2_TMP_AVE	AVRG'TEMP(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2064	BAT2_TMP_GRD	GRAD'TEMP(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2052	BAT2_TSOC	BATT'TSOC(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2084	BAT2_VTS_CMD	VT'SHFTS'CMD(1)	POWER'MGMT'CPL	PWR	STATUS	1	15	
F-2085	BAT2_VTS_TLM	VT'SHFTS'TLM(1)	POWER'MGMT'CPL	PWR	STATUS	1	15	
F-2086	BAT2_VT_CMD	VT'CMD(1)	POWER'MGMT'CPL	PWR	STATUS	3	13	
F-2087	BAT2_VT_TLM	VT'TLM(1)	POWER'MGMT'CPL	PWR	STATUS	3	13	
F-3000	BEAM_DELAY	CONTINGENCY'BEAM'ON'DELAY	TELECOM'PRESET	TLCM	UNSIGNED	16	0	
F-0006	BIAS_CNVG_X	BIAS'STATUS	STAREX'CPL	AACS	DIGITAL	16	0	
F-0007	BIAS_CNVG_Y	BIAS'STATUS	STAREX'CPL	AACS	DIGITAL	16	0	
F-0008	BIAS_CNVG_Z	BIAS'STATUS	STAREX'CPL	AACS	DIGITAL	16	0	
F-2503	BSC_BAT1_T1	BAD'SUBCOM'CNTRS(3)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2504	BSC_BAT1_T2	BAD'SUBCOM'CNTRS(4)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2505	BSC_BAT2_T1	BAD'SUBCOM'CNTRS(5)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2506	BSC_BAT2_T2	BAD'SUBCOM'CNTRS(6)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2532	BSC_CSA_T	BAD'SUBCOM'CNTRS(32)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2501	BSC_EM+X_T1	BAD'SUBCOM'CNTRS(1)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2502	BSC_EM+Y_T1	BAD'SUBCOM'CNTRS(2)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2500	BSC_EM-X_T1	BAD'SUBCOM'CNTRS(0)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2524	BSC_HGAgim1T	BAD'SUBCOM'CNTRS(24)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2525	BSC_HGAgim2T	BAD'SUBCOM'CNTRS(25)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2513	BSC_HYtnk1T1	BAD'SUBCOM'CNTRS(13)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2514	BSC_HYtnk1T2	BAD'SUBCOM'CNTRS(14)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2515	BSC_HYtnk2T1	BAD'SUBCOM'CNTRS(15)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2516	BSC_HYtnk2T2	BAD'SUBCOM'CNTRS(16)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2534	BSC_IMU_BLKT	BAD'SUBCOM'CNTRS(34)	THERMAL'CPL	THRM	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2530	BSC_ME_VLVT1	BAD'SUBCOM'CNTRS(30)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2531	BSC_MHSA_H_T	BAD'SUBCOM'CNTRS(31)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2511	BSC_NTOInkT1	BAD'SUBCOM'CNTRS(11)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2512	BSC_NTOInkT2	BAD'SUBCOM'CNTRS(12)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2517	BSC_PRCNT1_T	BAD'SUBCOM'CNTRS(17)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2518	BSC_PRCNT2_T	BAD'SUBCOM'CNTRS(18)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2528	BSC_SA+Ygm1T	BAD'SUBCOM'CNTRS(28)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2529	BSC_SA+Ygm2T	BAD'SUBCOM'CNTRS(29)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2526	BSC_SA-Ygm1T	BAD'SUBCOM'CNTRS(26)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2527	BSC_SA-Ygm2T	BAD'SUBCOM'CNTRS(27)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2521	BSC_SUPVC1_T	BAD'SUBCOM'CNTRS(21)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2522	BSC_SUPVC2_T	BAD'SUBCOM'CNTRS(22)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2519	BSC_SUPVC3_T	BAD'SUBCOM'CNTRS(19)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2520	BSC_SUPVC4_T	BAD'SUBCOM'CNTRS(20)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2507	BSC_THR_CL1T	BAD'SUBCOM'CNTRS(7)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2508	BSC_THR_CL2T	BAD'SUBCOM'CNTRS(8)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2509	BSC_THR_CL3T	BAD'SUBCOM'CNTRS(9)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2510	BSC_THR_CL4T	BAD'SUBCOM'CNTRS(10)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2523	BSC_TWTenclT	BAD'SUBCOM'CNTRS(23)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2533	BSC_XSU_T	BAD'SUBCOM'CNTRS(33)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-0741	BU_INERT_REF	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0283/01
F-0600	BU_MODE_ENA	ATT'ENABS(0)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	0	F-0005/00
F-1010	CE_DISCRETE	CYCEEXEC'DISCRETE	CYCEEXEC'PRESET	CDH	STATUS	1	0	
F-1011	CE_GND_ENT_T	GND'STATE'ENTRY'TIME	CYCEEXEC'CPL	CDH	UNSIGNED	32	0	
F-1012	CE_GND_MAX_T	MAX'GND'STATE'TIME	CYCEEXEC'CPL	CDH	UNSIGNED	32	0	
F-1013	CE_SCP10TIME	SCP'10'TIME	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1014	CE_SCP_ID	SCP'ID	CYCEEXEC'CPL	CDH	STATUS	4	12	
F-1015	CE_SCP_TIME	SCP'TIME	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1016	CE_SC_STATE	SC'STATE	CYCEEXEC'CPL	CDH	STATUS	4	12	
F-1017	CE_TASK_TOCT	TASK'TIMEOUT'FI'COUNT	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1018	CE_TIME_DIFF	TIME'DIFF	CYCEEXEC'CPL	CDH	SIGNED	32	0	
F-1019	CE_TOT_MSG_L	TOTAL'MSGS'LOST'ERRORS	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1020	CE_TOT_Q_ERR	TOTAL'QUEUE'ERRORS	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1021	CE_WAKEUPFI	WAKEUP'TASK'FI'COUNT	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-0608	CHK_NEW_EPH	ATT'ENABS(8)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	8	F-0005/08
F-1520	CIUFL_2Hz	CIU'FLAG'WORD(0)	CYCEEXEC'CPL	CDH	STATUS	1	0	F-1024/00
F-1532	CIUFL_Bussel	CIU'FLAG'WORD(12)	CYCEEXEC'CPL	CDH	STATUS	1	12	F-1024/12
F-1533	CIUFL_CNTmod	CIU'FLAG'WORD(13)	CYCEEXEC'CPL	CDH	STATUS	1	13	F-1024/13
F-1535	CIUFL_DESR_B	CIU'FLAG'WORD(15)	CYCEEXEC'CPL	CDH	STATUS	1	15	F-1024/15
F-1526	CIUFL_EDF1ok	CIU'FLAG'WORD(6)	CYCEEXEC'CPL	CDH	STATUS	1	6	F-1024/06
F-1527	CIUFL_EDF2ok	CIU'FLAG'WORD(7)	CYCEEXEC'CPL	CDH	STATUS	1	7	F-1024/07
F-1524	CIUFL_HEcntl	CIU'FLAG'WORD(4)	CYCEEXEC'CPL	CDH	STATUS	1	4	F-1024/04
F-1531	CIUFL_HEok	CIU'FLAG'WORD(11)	CYCEEXEC'CPL	CDH	STATUS	1	11	F-1024/11
F-1525	CIUFL_IO_X	CIU'FLAG'WORD(5)	CYCEEXEC'CPL	CDH	STATUS	1	5	F-1024/05
F-1534	CIUFL_MARS1c	CIU'FLAG'WORD(14)	CYCEEXEC'CPL	CDH	STATUS	1	14	F-1024/14
F-1528	CIUFL_MEcntl	CIU'FLAG'WORD(8)	CYCEEXEC'CPL	CDH	STATUS	1	8	F-1024/08
F-1530	CIUFL_MEok	CIU'FLAG'WORD(10)	CYCEEXEC'CPL	CDH	STATUS	1	10	F-1024/10
F-1529	CIUFL_MHSA1P	CIU'FLAG'WORD(9)	CYCEEXEC'CPL	CDH	STATUS	1	9	F-1024/09
F-1523	CIUFL_QTHz	CIU'FLAG'WORD(3)	CYCEEXEC'CPL	CDH	STATUS	1	3	F-1024/03

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1521	CIUFL_SSA1	CIU'FLAG'WORD(1)	CYCEEXEC'CPL	CDH	STATUS	1	1	F-1024/01
F-1522	CIUFL_SSA2	CIU'FLAG'WORD(2)	CYCEEXEC'CPL	CDH	STATUS	1	2	F-1024/02
F-1024	CIU_FLAGS	CIU'FLAG'WORD	CYCEEXEC'CPL	CDH	DIGITAL	16	0	F-1024
F-1541	CIXFL_01	CIX'FLAG'WORD(1)	CYCEEXEC'CPL	CDH	STATUS	1	1	F-1026/01
F-1542	CIXFL_02	CIX'FLAG'WORD(2)	CYCEEXEC'CPL	CDH	STATUS	1	2	F-1026/02
F-1543	CIXFL_03	CIX'FLAG'WORD(3)	CYCEEXEC'CPL	CDH	STATUS	1	3	F-1026/03
F-1546	CIXFL_06	CIX'FLAG'WORD(6)	CYCEEXEC'CPL	CDH	STATUS	1	6	F-1026/06
F-1547	CIXFL_07	CIX'FLAG'WORD(7)	CYCEEXEC'CPL	CDH	STATUS	1	7	F-1026/07
F-1549	CIXFL_09	CIX'FLAG'WORD(9)	CYCEEXEC'CPL	CDH	STATUS	1	9	F-1026/09
F-1550	CIXFL_10	CIX'FLAG'WORD(10)	CYCEEXEC'CPL	CDH	STATUS	1	10	F-1026/10
F-1551	CIXFL_11	CIX'FLAG'WORD(11)	CYCEEXEC'CPL	CDH	STATUS	1	11	F-1026/11
F-1553	CIXFL_13	CIX'FLAG'WORD(13)	CYCEEXEC'CPL	CDH	STATUS	1	13	F-1026/13
F-1554	CIXFL_14	CIX'FLAG'WORD(14)	CYCEEXEC'CPL	CDH	STATUS	1	14	F-1026/14
F-1552	CIXFL_BusSel	CIX'FLAG'WORD(12)	CYCEEXEC'CPL	CDH	STATUS	1	12	F-1026/12
F-1555	CIXFL_DESR_B	CIX'FLAG'WORD(15)	CYCEEXEC'CPL	CDH	STATUS	1	15	F-1026/15
F-1540	CIXFL_ECHO0	CIX'FLAG'WORD(0)	CYCEEXEC'CPL	CDH	STATUS	1	0	F-1026/00
F-1544	CIXFL_HEcntl	CIX'FLAG'WORD(4)	CYCEEXEC'CPL	CDH	STATUS	1	4	F-1026/04
F-1545	CIXFL_IO_X	CIX'FLAG'WORD(5)	CYCEEXEC'CPL	CDH	STATUS	1	5	F-1026/05
F-1548	CIXFL_MEcntl	CIX'FLAG'WORD(8)	CYCEEXEC'CPL	CDH	STATUS	1	8	F-1026/08
F-1026	CIX_FLAGS	CIX'FLAG'WORD	CYCEEXEC'CPL	CDH	DIGITAL	16	0	F-1026
F-3010	CMD_LOSS_TMR	COMMAND'LOSSTIMER	TELECOM'INIT	TLCM	UNSIGNED	16	0	
F-0755	CM_REQ_PEND	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	15	F-0283/15
F-0010	COVAR_11(0)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0011	COVAR_11(1)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0012	COVAR_11(2)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0013	COVAR_11(3)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0014	COVAR_11(4)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0015	COVAR_11(5)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0016	COVAR_11(6)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0017	COVAR_11(7)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0018	COVAR_11(8)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0020	COVAR_12(0)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0021	COVAR_12(1)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0022	COVAR_12(2)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0023	COVAR_12(3)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0024	COVAR_12(4)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0025	COVAR_12(5)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0026	COVAR_12(6)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0027	COVAR_12(7)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0028	COVAR_12(8)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0030	COVAR_22(0)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0031	COVAR_22(1)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0032	COVAR_22(2)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0033	COVAR_22(3)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0034	COVAR_22(4)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0035	COVAR_22(5)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0036	COVAR_22(6)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0037	COVAR_22(7)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0038	COVAR_22(8)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0610	CSAbu_HAS_BU	ATT'ENABS(10)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	10	F-0005/10
F-0051	CSAwdNONZERO	CSAWRDNZ	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0040	CSA_AS_1	TELEM'CSA(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0049	CSA_AS_10	TELEM'CSA(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0041	CSA_AS_2	TELEM'CSA(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0042	CSA_AS_3	TELEM'CSA(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0043	CSA_AS_4	TELEM'CSA(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0044	CSA_AS_5	TELEM'CSA(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0045	CSA_AS_6	TELEM'CSA(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0046	CSA_AS_7	TELEM'CSA(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0047	CSA_AS_8	TELEM'CSA(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0048	CSA_AS_9	TELEM'CSA(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0643	CS_TRI_A_SEL	TELEM'IMU'STATUS(0,3)	CYCEEXEC'CPL	AACS	STATUS	1	3	F-0210/03
F-0642	CS_TRI_B_SEL	TELEM'IMU'STATUS(0,2)	CYCEEXEC'CPL	AACS	STATUS	1	2	F-0210/02
F-0055	CT_CNTRL_ST	CONTROL'STATE'COUNT	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0056	CT_MAP_LOST	MAP'LOST'COUNT	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0057	CT_SUN_BADCK	BAD'SUN'CHECK'COUNT	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-1030	CV_DATA_WORD	CVWORD	TELEMETRY'CPL	CDH	DIGITAL	16	0	
F-1031	CV_Q_COUNT	CVQUE'DEScriptor	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-0060	DELTAV_DUR	TOTAL'MANUV'R'DURATION	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0061	DELTAV_X	TOTAL'DELTA'V(0)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0062	DELTAV_Y	TOTAL'DELTA'V(1)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0063	DELTAV_Z	TOTAL'DELTA'V(2)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-1034	DEVDEAD_1	DEVICE'DEAD'FLAG	REDMAN'CPL	CDH	DIGITAL	16	0	F-1034
F-1035	DEVDEAD_2	DEVICE'DEAD'FLAG	REDMAN'CPL	CDH	DIGITAL	16	0	F-1035
F-0065	DOTPROD_MULT	DOTPROD'MULT	STAREX'CPL	AACS	SIGNED	16	0	
F-2722	DPS_BATTERY	PRI'DTCS'OFF(2)	THERMAL'CPL	THRM	STATUS	1	2	F-2565/02
F-2731	DPS_CSA	PRI'DTCS'OFF(11)	THERMAL'CPL	THRM	STATUS	1	11	F-2565/11
F-2735	DPS_EM+X	PRI'DTCS'OFF(15)	THERMAL'CPL	THRM	STATUS	1	15	F-2565/15
F-2733	DPS_EM+Y	PRI'DTCS'OFF(13)	THERMAL'CPL	THRM	STATUS	1	13	F-2565/13
F-2720	DPS_EM-X	PRI'DTCS'OFF(0)	THERMAL'CPL	THRM	STATUS	1	0	F-2565/00
F-2728	DPS_IMU_TCA	PRI'DTCS'OFF(8)	THERMAL'CPL	THRM	STATUS	1	8	F-2565/08
F-2726	DPS_MAIN_ENG	PRI'DTCS'OFF(6)	THERMAL'CPL	THRM	STATUS	1	6	F-2565/06
F-2730	DPS_MHSA	PRI'DTCS'OFF(10)	THERMAL'CPL	THRM	STATUS	1	10	F-2565/10
F-2724	DPS_PROP_TNK	PRI'DTCS'OFF(4)	THERMAL'CPL	THRM	STATUS	1	4	F-2565/04
F-2734	DPS_PRS_CL1	PRI'DTCS'OFF(14)	THERMAL'CPL	THRM	STATUS	1	14	F-2565/14
F-2721	DPS_PRS_CL2	PRI'DTCS'OFF(1)	THERMAL'CPL	THRM	STATUS	1	1	F-2565/01
F-2732	DPS_SA+Y_GIM	PRI'DTCS'OFF(12)	THERMAL'CPL	THRM	STATUS	1	12	F-2565/12
F-2729	DPS_SA-Y_GIM	PRI'DTCS'OFF(9)	THERMAL'CPL	THRM	STATUS	1	9	F-2565/09
F-2725	DPS_SUPVCL	PRI'DTCS'OFF(5)	THERMAL'CPL	THRM	STATUS	1	5	F-2565/05
F-2723	DPS_THR_ENCL	PRI'DTCS'OFF(3)	THERMAL'CPL	THRM	STATUS	1	3	F-2565/03
F-2727	DPS_TWT_HGgm	PRI'DTCS'OFF(7)	THERMAL'CPL	THRM	STATUS	1	7	F-2565/07
F-2560	DTC_ENABLES	THERMAL'PARAMETERS	THERMAL'PRESET	THRM	DIGITAL	16	0	
F-2565	DTC_PRI_STAT	PRI'DTCS'OFF	THERMAL'CPL	THRM	DIGITAL	16	0	F-2565
F-2570	DTC_WARN_FLG	THERM'DTC'STATUS	THERMAL'CPL	THRM	DIGITAL	16	0	F-2570
F-1575	DVDEAD1_AACS	DEVICE'DEAD'FLAG(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1034/15
F-1560	DVDEAD1_BUS	DEVICE'DEAD'FLAG(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1034/00
F-1561	DVDEAD1_CLK	DEVICE'DEAD'FLAG(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1034/01
F-1566	DVDEAD1_DTC	DEVICE'DEAD'FLAG(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1034/06

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1567	DVDEAD1_EDF	DEVICE'DEAD'FLAG(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1034/07
F-1565	DVDEAD1_GYRO	DEVICE'DEAD'FLAG(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1034/05
F-1573	DVDEAD1_HGA	DEVICE'DEAD'FLAG(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1034/13
F-1564	DVDEAD1_IMU	DEVICE'DEAD'FLAG(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1034/04
F-1570	DVDEAD1_MOT	DEVICE'DEAD'FLAG(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1034/10
F-1571	DVDEAD1_PSE	DEVICE'DEAD'FLAG(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1034/11
F-1569	DVDEAD1_RPA	DEVICE'DEAD'FLAG(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1034/09
F-1563	DVDEAD1_RWA	DEVICE'DEAD'FLAG(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1034/03
F-1574	DVDEAD1_SAM	DEVICE'DEAD'FLAG(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1034/14
F-1572	DVDEAD1_SAP	DEVICE'DEAD'FLAG(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1034/12
F-1562	DVDEAD1_SSA	DEVICE'DEAD'FLAG(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1034/02
F-1568	DVDEAD1_XSU	DEVICE'DEAD'FLAG(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1034/08
F-1681	DVDEAD2_CSA	DEVICE'DEAD'FLAG(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1035/01
F-1680	DVDEAD2_MHSA	DEVICE'DEAD'FLAG(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1035/00
F-1683	DVDEAD2_REA	DEVICE'DEAD'FLAG(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1035/03
F-1684	DVDEAD2_SP04	DEVICE'DEAD'FLAG(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1035/04
F-1685	DVDEAD2_SP05	DEVICE'DEAD'FLAG(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1035/05
F-1686	DVDEAD2_SP06	DEVICE'DEAD'FLAG(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1035/06
F-1687	DVDEAD2_SP07	DEVICE'DEAD'FLAG(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1035/07
F-1688	DVDEAD2_SP08	DEVICE'DEAD'FLAG(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1035/08
F-1689	DVDEAD2_SP09	DEVICE'DEAD'FLAG(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1035/09
F-1690	DVDEAD2_SP10	DEVICE'DEAD'FLAG(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1035/10
F-1691	DVDEAD2_SP11	DEVICE'DEAD'FLAG(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1035/11
F-1692	DVDEAD2_SP12	DEVICE'DEAD'FLAG(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1035/12
F-1693	DVDEAD2_SP13	DEVICE'DEAD'FLAG(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1035/13
F-1694	DVDEAD2_SP14	DEVICE'DEAD'FLAG(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1035/14
F-1695	DVDEAD2_SP15	DEVICE'DEAD'FLAG(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1035/15
F-1682	DVDEAD2_TANK	DEVICE'DEAD'FLAG(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1035/02
F-2742	DWF_BATTERY	THERM'DTC'STATUS(2)	THERMAL'CPL	THRM	STATUS	1	2	F-2570/02
F-2751	DWF_CSA	THERM'DTC'STATUS(11)	THERMAL'CPL	THRM	STATUS	1	11	F-2570/11
F-2755	DWF_EM+X	THERM'DTC'STATUS(15)	THERMAL'CPL	THRM	STATUS	1	15	F-2570/15
F-2753	DWF_EM+Y	THERM'DTC'STATUS(13)	THERMAL'CPL	THRM	STATUS	1	13	F-2570/13
F-2740	DWF_EM-X	THERM'DTC'STATUS(0)	THERMAL'CPL	THRM	STATUS	1	0	F-2570/00
F-2748	DWF_IMU_TCA	THERM'DTC'STATUS(8)	THERMAL'CPL	THRM	STATUS	1	8	F-2570/08
F-2746	DWF_MAIN_ENG	THERM'DTC'STATUS(6)	THERMAL'CPL	THRM	STATUS	1	6	F-2570/06
F-2750	DWF_MHSA	THERM'DTC'STATUS(10)	THERMAL'CPL	THRM	STATUS	1	10	F-2570/10
F-2744	DWF_PROP_TNK	THERM'DTC'STATUS(4)	THERMAL'CPL	THRM	STATUS	1	4	F-2570/04
F-2754	DWF_PRS_CL1	THERM'DTC'STATUS(14)	THERMAL'CPL	THRM	STATUS	1	14	F-2570/14
F-2741	DWF_PRS_CL2	THERM'DTC'STATUS(1)	THERMAL'CPL	THRM	STATUS	1	1	F-2570/01
F-2752	DWF_SA+Y_GIM	THERM'DTC'STATUS(12)	THERMAL'CPL	THRM	STATUS	1	12	F-2570/12
F-2749	DWF_SA-Y_GIM	THERM'DTC'STATUS(9)	THERMAL'CPL	THRM	STATUS	1	9	F-2570/09
F-2745	DWF_SUPVCL	THERM'DTC'STATUS(5)	THERMAL'CPL	THRM	STATUS	1	5	F-2570/05
F-2743	DWF_THR_ENCL	THERM'DTC'STATUS(3)	THERMAL'CPL	THRM	STATUS	1	3	F-2570/03
F-2747	DWF_TWT_HGgm	THERM'DTC'STATUS(7)	THERMAL'CPL	THRM	STATUS	1	7	F-2570/07
F-1040	EDF_ERROR_CT	EDFERROR'COUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1041	EDF_ERR_CNT1	EDFERROR'MATRIX	SUBCOM'CPL	CDH	UNSIGNED	16	0	
F-1042	EDF_ERR_CNT2	EDFERROR'MATRIX	SUBCOM'CPL	CDH	UNSIGNED	16	0	
F-1043	EDF_ERR_MAT1	EDFERROR'MATRIX	SUBCOM'CPL	CDH	DIGITAL	16	0	
F-1044	EDF_ERR_MAT2	EDFERROR'MATRIX	SUBCOM'CPL	CDH	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1045	EDF_FINISH	EDF'INITIALIZATION'START'TIME	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1046	EDF_INTERRUPT	EDF'INTERRUPTCOUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1047	EDF_PKT_0	EDFSUBCOM'PACKET	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1048	EDF_PKT_1	EDFSUBCOM'PACKET	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1049	EDF_SCLKTIME	SPACECRAFTTIME	SUBCOM'CPL	CDH	UNSIGNED	32	0	
F-1060	EIS_1BITERCT	SEFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1061	EIS_FIXPT_OF	FXOFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1062	EIS_FLTPT_OF	FLOFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1063	EIS_FLTPT_UF	FLUFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1064	EIS_ILL_EXEC	ILLEXEC'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1065	EIS_ISR_TIMA	TIMAIRSR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1066	EIS_LVL0_ERR	LVL0ISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1067	EIS_MACH_ERR	MERRISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1068	EIS_MER_PAGE	MERR'PAGE'NUMBER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1069	EIS_MER_PgOF	MERR'OFFSET'ADDRESS	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-1070	EIS_RT_FAULT	RUNTIMEFAULTREGISTER	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-1071	EIS_SEF_ERRW	SEFERROR'REGISTER	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-1072	EIS_SEF_PAGE	SEFPAGE'NUMBER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1073	EIS_SEF_PgOF	SEFOFFSET'ADDRESS	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-1074	EIS_SPR_INT	SPARISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-0070	EPH_ANG_INCL	EPHEM'ANGLE(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0071	EPH_ANG_NODE	EPHEM'ANGLE(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0072	EPH_ANG_ORBT	EPHEM'ANGLE(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0074	EPH_EARTH_BX	EPHEM'EARTH'B'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0075	EPH_EARTH_BY	EPHEM'EARTH'B'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0076	EPH_EARTH_BZ	EPHEM'EARTH'B'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0077	EPH_EARTH_AX	EPHEM'EARTH'I'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0078	EPH_EARTH_AY	EPHEM'EARTH'I'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0079	EPH_EARTH_AZ	EPHEM'EARTH'I'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0080	EPH_PITCH	EPHEM'PITCH'CORRECTION	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0085	EPH_SUN_BX	EPHEM'SUN'B'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0086	EPH_SUN_BY	EPHEM'SUN'B'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0087	EPH_SUN_BZ	EPHEM'SUN'B'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0090	EPH_SUN_AX	EPHEM'SUN'I'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0091	EPH_SUN_AY	EPHEM'SUN'I'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0092	EPH_SUN_AZ	EPHEM'SUN'I'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0094	EQ_CROSS	EQCR'TIME'TO'NODE	AACS2'EPHEM'CPL	AACS	UNSIGNED	16	0	
F-0100	FILT_SUN_X	FILT'SUN(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0101	FILT_SUN_Y	FILT'SUN(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0102	FILT_SUN_Z	FILT'SUN(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0170	GYbiasCOR_X	B'GYRO'BIAS'CORR(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0171	GYbiasCOR_Y	B'GYRO'BIAS'CORR(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0172	GYbiasCOR_Z	B'GYRO'BIAS'CORR(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0180	GYbiasEST_XA	ST'ST'BIASES(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0181	GYbiasEST_XB	ST'ST'BIASES(3)	STAREX'CPL	AACS	SIGNED	16	0	
F-0182	GYbiasEST YA	ST'ST'BIASES(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0183	GYbiasEST_YB	ST'ST'BIASES(4)	STAREX'CPL	AACS	SIGNED	16	0	
F-0184	GYbiasEST_ZA	ST'ST'BIASES(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0185	GYbiasEST_ZB	ST'ST'BIASES(5)	STAREX'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0105	GYR_BI_EST_X	GYRO'BIAS'EST(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0106	GYR_BI_EST_Y	GYRO'BIAS'EST(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0107	GYR_BI_EST_Z	GYRO'BIAS'EST(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0110	GY_X1_X3_1	TELEM'GYRO'X1(0)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0119	GY_X1_X3_10	TELEM'GYRO'X1(9)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0111	GY_X1_X3_2	TELEM'GYRO'X1(1)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0112	GY_X1_X3_3	TELEM'GYRO'X1(2)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0113	GY_X1_X3_4	TELEM'GYRO'X1(3)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0114	GY_X1_X3_5	TELEM'GYRO'X1(4)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0115	GY_X1_X3_6	TELEM'GYRO'X1(5)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0116	GY_X1_X3_7	TELEM'GYRO'X1(6)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0117	GY_X1_X3_8	TELEM'GYRO'X1(7)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0118	GY_X1_X3_9	TELEM'GYRO'X1(8)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0120	GY_X3_AX_1	TELEM'GYRO'X3(0)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0129	GY_X3_AX_10	TELEM'GYRO'X3(9)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0121	GY_X3_AX_2	TELEM'GYRO'X3(1)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0122	GY_X3_AX_3	TELEM'GYRO'X3(2)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0123	GY_X3_AX_4	TELEM'GYRO'X3(3)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0124	GY_X3_AX_5	TELEM'GYRO'X3(4)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0125	GY_X3_AX_6	TELEM'GYRO'X3(5)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0126	GY_X3_AX_7	TELEM'GYRO'X3(6)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0127	GY_X3_AX_8	TELEM'GYRO'X3(7)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0128	GY_X3_AX_9	TELEM'GYRO'X3(8)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0130	GY_Y1_Y2_1	TELEM'GYRO'Y1(0)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0139	GY_Y1_Y2_10	TELEM'GYRO'Y1(9)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0131	GY_Y1_Y2_2	TELEM'GYRO'Y1(1)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0132	GY_Y1_Y2_3	TELEM'GYRO'Y1(2)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0133	GY_Y1_Y2_4	TELEM'GYRO'Y1(3)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0134	GY_Y1_Y2_5	TELEM'GYRO'Y1(4)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0135	GY_Y1_Y2_6	TELEM'GYRO'Y1(5)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0136	GY_Y1_Y2_7	TELEM'GYRO'Y1(6)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0137	GY_Y1_Y2_8	TELEM'GYRO'Y1(7)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0138	GY_Y1_Y2_9	TELEM'GYRO'Y1(8)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0140	GY_Y2_AY_1	TELEM'GYRO'Y2(0)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0149	GY_Y2_AY_10	TELEM'GYRO'Y2(9)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0141	GY_Y2_AY_2	TELEM'GYRO'Y2(1)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0142	GY_Y2_AY_3	TELEM'GYRO'Y2(2)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0143	GY_Y2_AY_4	TELEM'GYRO'Y2(3)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0144	GY_Y2_AY_5	TELEM'GYRO'Y2(4)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0145	GY_Y2_AY_6	TELEM'GYRO'Y2(5)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0146	GY_Y2_AY_7	TELEM'GYRO'Y2(6)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0147	GY_Y2_AY_8	TELEM'GYRO'Y2(7)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0148	GY_Y2_AY_9	TELEM'GYRO'Y2(8)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0150	GY_Z2_Z3_1	TELEM'GYRO'Z2(0)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0159	GY_Z2_Z3_10	TELEM'GYRO'Z2(9)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0151	GY_Z2_Z3_2	TELEM'GYRO'Z2(1)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0152	GY_Z2_Z3_3	TELEM'GYRO'Z2(2)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0153	GY_Z2_Z3_4	TELEM'GYRO'Z2(3)	CYCEXECCPL	AACS	DIGITAL	16	0	
F-0154	GY_Z2_Z3_5	TELEM'GYRO'Z2(4)	CYCEXECCPL	AACS	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0155	GY_Z2_Z3_6	TELEM'GYRO'Z2(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0156	GY_Z2_Z3_7	TELEM'GYRO'Z2(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0157	GY_Z2_Z3_8	TELEM'GYRO'Z2(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0158	GY_Z2_Z3_9	TELEM'GYRO'Z2(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0160	GY_Z3_AZ_1	TELEM'GYRO'Z3(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0169	GY_Z3_AZ_10	TELEM'GYRO'Z3(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0161	GY_Z3_AZ_2	TELEM'GYRO'Z3(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0162	GY_Z3_AZ_3	TELEM'GYRO'Z3(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0163	GY_Z3_AZ_4	TELEM'GYRO'Z3(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0164	GY_Z3_AZ_5	TELEM'GYRO'Z3(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0165	GY_Z3_AZ_6	TELEM'GYRO'Z3(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0166	GY_Z3_AZ_7	TELEM'GYRO'Z3(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0167	GY_Z3_AZ_8	TELEM'GYRO'Z3(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0168	GY_Z3_AZ_9	TELEM'GYRO'Z3(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0190	HGA_AZ_ANG	HGA'AZI'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0191	HGA_AZ_CMD	HGA'AZI'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0192	HGA_AZ_POS	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0193	HGA_AZ_TRG	HGA'AZI'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0194	HGA_CNTRL_ST	HGA'CONTROL'STATUS	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0195	HGA_EL_ANG	HGA'ELE'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0196	HGA_EL_CMD	HGA'ELE'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0197	HGA_EL_POS	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0198	HGA_EL_TRG	HGA'ELE'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0200	HGA_STATS	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0200
F-0620	HGA_STATS_00	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0200/00
F-0621	HGA_STATS_01	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0200/01
F-0622	HGA_STATS_02	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0200/02
F-0623	HGA_STATS_03	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	3	F-0200/03
F-0625	HGA_STATS_05	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0200/05
F-0626	HGA_STATS_06	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0200/06
F-0627	HGA_STATS_07	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	2	7	F-0200/07
F-0629	HGA_STATS_09	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0200/09
F-0630	HGA_STATS_10	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0200/10
F-0631	HGA_STATS_11	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	11	F-0200/11
F-0633	HGA_STATS_13	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0200/13
F-0634	HGA_STATS_14	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0200/14
F-0635	HGA_STATS_15	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	1	15	F-0200/15
F-0201	HGA_TIMEOUT	HGA'SIB'TIMEOUT	CYCEEXEC'CPL	AACS	STATUS	4	12	
F-0220	IMUstatMASK	IMU'STATUS'WORD'MASK	AACS10'PRESET	AACS	DIGITAL	16	0	
F-0641	IMU_ACsupSEL	TELEM'IMU'STATUS(0,1)	CYCEEXEC'CPL	AACS	STATUS	1	1	F-0210/01
F-0205	IMU_CHK_FROZ	IMUFROZEN'CHK'ENABLED	AACS10'PRESET	AACS	STATUS	1	0	
F-0206	IMU_CHK_STAT	IMU'STATUS'CHK'ENABLED	AACS10'PRESET	AACS	STATUS	1	0	
F-0652	IMU_DATA_SEL	TELEM'IMU'STATUS(0,12)	CYCEEXEC'CPL	AACS	STATUS	1	12	F-0210/12
F-0640	IMU_DCsupSEL	TELEM'IMU'STATUS(0,0)	CYCEEXEC'CPL	AACS	STATUS	1	0	F-0210/00
F-0541	IMU_DRIFT_1	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0542	IMU_DRIFT_2	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0543	IMU_DRIFT_3	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0544	IMU_DRIFT_4	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0545	IMU_DRIFT_5	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0546	IMU_DRIFT_6	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0648	IMU_FORMAT	TELEM'IMU'STATUS(0,8)	CYCEEXEC'CPL	AACS	STATUS	1	8	F-0210/08
F-0655	IMU_G1_STAT	TELEM'IMU'STATUS(0,15)	CYCEEXEC'CPL	AACS	STATUS	1	15	F-0210/15
F-0654	IMU_G2_STAT	TELEM'IMU'STATUS(0,14)	CYCEEXEC'CPL	AACS	STATUS	1	14	F-0210/14
F-0653	IMU_G3_STAT	TELEM'IMU'STATUS(0,13)	CYCEEXEC'CPL	AACS	STATUS	1	13	F-0210/13
F-0645	IMU_RATE_SEL	TELEM'IMU'STATUS(0,5)	CYCEEXEC'CPL	AACS	STATUS	1	5	F-0210/05
F-0646	IMU_STW1_06	TELEM'IMU'STATUS(0,6)	CYCEEXEC'CPL	AACS	UNSIGNED	1	6	F-0210/06
F-0647	IMU_STW1_07	TELEM'IMU'STATUS(0,7)	CYCEEXEC'CPL	AACS	UNSIGNED	1	7	F-0210/07
F-0210	IMU_ST_WD1	TELEM'IMU'STATUS	CYCEEXEC'CPL	AACS	DIGITAL	16	0	F-0210
F-0219	IMU_ST_WD10	TELEM'IMU'STATUS(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0211	IMU_ST_WD2	TELEM'IMU'STATUS(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0212	IMU_ST_WD3	TELEM'IMU'STATUS(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0213	IMU_ST_WD4	TELEM'IMU'STATUS(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0214	IMU_ST_WD5	TELEM'IMU'STATUS(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0215	IMU_ST_WD6	TELEM'IMU'STATUS(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0216	IMU_ST_WD7	TELEM'IMU'STATUS(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0217	IMU_ST_WD8	TELEM'IMU'STATUS(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0218	IMU_ST_WD9	TELEM'IMU'STATUS(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0644	IMU_TEST_SEL	TELEM'IMU'STATUS(0,4)	CYCEEXEC'CPL	AACS	STATUS	1	4	F-0210/04
F-0650	IMU_Xchn_SEL	TELEM'IMU'STATUS(0,10)	CYCEEXEC'CPL	AACS	STATUS	1	10	F-0210/10
F-0649	IMU_Ychn_SEL	TELEM'IMU'STATUS(0,9)	CYCEEXEC'CPL	AACS	STATUS	1	9	F-0210/09
F-0651	IMU_Zchn_SEL	TELEM'IMU'STATUS(0,11)	CYCEEXEC'CPL	AACS	STATUS	1	11	F-0210/11
F-0740	INERT_REF	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0283/00
F-1080	INT_CMDEX_CT	INTERNAL'CMDS'EXECUTED'COUNT	CMDEX'DATA'CPL	CDH	UNSIGNED	16	0	
F-1081	INT_CMDRJ_CT	INTERNAL'CMDS'REJECTED'COUNT	CMDEX'DATA'CPL	CDH	UNSIGNED	16	0	
F-0223	ISH_slewRATE	ISH'CNTRL'PARAMS	AACS2'MISC'CNTRL'PRESET	AACS	SIGNED	16	0	
F-3020	LGA_CYCLE	LGA'CYCLE'PERIOD	TELECOM'PRESET	TLCM	UNSIGNED	16	0	
F-3021	LGA_TIMER	LGA'CYCLE'TIMER	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-0751	LNCH_TACH_LK	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	11	F-0283/11
F-0227	MANUVR_FLAG	MANUVRFLAGS	MANUVR'VARSCPL	AACS	DIGITAL	16	0	
F-0228	MANUVR_STATE	MANUVR'STATE	MANUVR'VARSCPL	AACS	STATUS	4	12	
F-0607	MAP_EPHEM	ATT'ENABS(7)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	7	F-0005/07
F-1090	MCHK_ITTR_CT	MEMCHK'ITERATIONS	MEMCHK'CPL	CDH	UNSIGNED	32	0	
F-1581	MEOK_ERR	MEOK'INHIBIT'WORD(1)	CYCEEXEC'CPL	CDH	STATUS	1	1	F-1092/01
F-1580	MEOK_OFFL	MEOK'INHIBIT'WORD(0)	CYCEEXEC'CPL	CDH	STATUS	1	0	F-1092/00
F-1587	MEOK_POUT	MEOK'INHIBIT'WORD(7)	CYCEEXEC'CPL	CDH	STATUS	1	7	F-1092/07
F-1583	MEOK_QUER	MEOK'INHIBIT'WORD(3)	CYCEEXEC'CPL	CDH	STATUS	1	3	F-1092/03
F-1582	MEOK_REQ	MEOK'INHIBIT'WORD(2)	CYCEEXEC'CPL	CDH	STATUS	1	2	F-1092/02
F-1584	MEOK_ROUT	MEOK'INHIBIT'WORD(4)	CYCEEXEC'CPL	CDH	STATUS	1	4	F-1092/04
F-1590	MEOK_SPARES	MEOK'INHIBIT'WORD(10)	CYCEEXEC'CPL	CDH	UNSIGNED	6	10	F-1092/10
F-1589	MEOK_STAK	MEOK'INHIBIT'WORD(9)	CYCEEXEC'CPL	CDH	STATUS	1	9	F-1092/09
F-1586	MEOK_TOUT	MEOK'INHIBIT'WORD(6)	CYCEEXEC'CPL	CDH	STATUS	1	6	F-1092/06
F-1585	MEOK_UOUT	MEOK'INHIBIT'WORD(5)	CYCEEXEC'CPL	CDH	STATUS	1	5	F-1092/05
F-1588	MEOK_WKUP	MEOK'INHIBIT'WORD(8)	CYCEEXEC'CPL	CDH	STATUS	1	8	F-1092/08
F-1092	MEOK_WORD	MEOK'INHIBIT'WORD	CYCEEXEC'CPL	CDH	DIGITAL	16	0	F-1092
F-0262	MHSApitchC11	PITCH'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0263	MHSApitchC22	PITCH'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0264	MHSArollC11	ROLL'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0265	MHSArollC22	ROLL'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0231	MHSA_A-S_Q1	MHSA'A'MIN'S'DATA(0)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0232	MHSA_A-S_Q2	MHSA'A'MIN'S'DATA(1)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0233	MHSA_A-S_Q3	MHSA'A'MIN'S'DATA(2)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0234	MHSA_A-S_Q4	MHSA'A'MIN'S'DATA(3)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0235	MHSA_B-S_Q1	MHSA'B'MIN'S'DATA(0)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0236	MHSA_B-S_Q2	MHSA'B'MIN'S'DATA(1)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0237	MHSA_B-S_Q3	MHSA'B'MIN'S'DATA(2)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0238	MHSA_B-S_Q4	MHSA'B'MIN'S'DATA(3)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0745	MHSA_DATA	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0283/05
F-0609	MHSA_DER_ATT	ATT'ENABS(9)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	9	F-0005/09
F-0241	MHSA_DETA_Q1	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0242	MHSA_DETA_Q2	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0243	MHSA_DETA_Q3	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0244	MHSA_DETA_Q4	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0245	MHSA_DETB_Q1	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0246	MHSA_DETB_Q2	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0247	MHSA_DETB_Q3	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0248	MHSA_DETB_Q4	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0251	MHSA_DETS_Q1	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0252	MHSA_DETS_Q2	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0253	MHSA_DETS_Q3	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0254	MHSA_DETS_Q4	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0260	MHSA_PITCH	PITCHERROR	AACS2'MHSA'CPL	AACS	SIGNED	16	0	
F-0266	MHSA_QD_BAD	QUAD'DATA'BAD	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	F-0266
F-0700	MHSA_QD_B_00	QUAD'DATA'BAD(0)	AACS2'MHSA'CPL	AACS	STATUS	1	0	F-0266/00
F-0701	MHSA_QD_B_01	QUAD'DATA'BAD(1)	AACS2'MHSA'CPL	AACS	STATUS	1	1	F-0266/01
F-0702	MHSA_QD_B_02	QUAD'DATA'BAD(2)	AACS2'MHSA'CPL	AACS	STATUS	1	2	F-0266/02
F-0703	MHSA_QD_B_03	QUAD'DATA'BAD(3)	AACS2'MHSA'CPL	AACS	STATUS	1	3	F-0266/03
F-0267	MHSA_QD_VIEW	QUAD'VIEW'SPACE	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	F-0267
F-0710	MHSA_QD_V_00	QUAD'VIEW'SPACE(0)	AACS2'MHSA'CPL	AACS	STATUS	1	0	F-0267/00
F-0711	MHSA_QD_V_01	QUAD'VIEW'SPACE(1)	AACS2'MHSA'CPL	AACS	STATUS	1	1	F-0267/01
F-0712	MHSA_QD_V_02	QUAD'VIEW'SPACE(2)	AACS2'MHSA'CPL	AACS	STATUS	1	2	F-0267/02
F-0713	MHSA_QD_V_03	QUAD'VIEW'SPACE(3)	AACS2'MHSA'CPL	AACS	STATUS	1	3	F-0267/03
F-0261	MHSA_ROLL	ROLL'ERROR	AACS2'MHSA'CPL	AACS	SIGNED	16	0	
F-0742	MHSA_USABLE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0283/02
F-0744	MHSA_VIEW	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	4	F-0283/04
F-1605	MINISEQ_05	MINI'SEQ'STATUS(5)	MINI'SEQ'CPL	CDH	UNSIGNED	3	5	F-1094/05
F-1600	MINISEQ_ACTV	MINI'SEQ'STATUS(0)	MINI'SEQ'CPL	CDH	STATUS	1	0	F-1094/00
F-1608	MINISEQ_CEXC	MINI'SEQ'STATUS(8)	MINI'SEQ'CPL	CDH	UNSIGNED	8	8	F-1094/08
F-1601	MINISEQ_CMDE	MINI'SEQ'STATUS(1)	MINI'SEQ'CPL	CDH	STATUS	1	1	F-1094/01
F-1603	MINISEQ_CNTC	MINI'SEQ'STATUS(3)	MINI'SEQ'CPL	CDH	STATUS	1	3	F-1094/03
F-1604	MINISEQ_COMP	MINI'SEQ'STATUS(4)	MINI'SEQ'CPL	CDH	STATUS	1	4	F-1094/04
F-1094	MINISEQ_STAT	MINI'SEQ'STATUS	MINI'SEQ'CPL	CDH	DIGITAL	16	0	F-1094
F-1602	MINISEQ_TAGE	MINI'SEQ'STATUS(2)	MINI'SEQ'CPL	CDH	STATUS	1	2	F-1094/02
F-0748	MNVR_ACTIVE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	8	F-0283/08
F-0268	MOI_STATUS	MOI'STATE	MANUVR'VAR'CPL	AACS	STATUS	4	12	
F-0884	MOMUNL_AXIS	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	STATUS	4	4	F-0277/04
F-0888	MOMUNL_STATE	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	STATUS	4	8	F-0277/08
F-0270	MOM_DYAD_0	INERTIA'DYADIC(0)	AACS2'MOMUNL'PRESET	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0271	MOM_DYAD_4	INERTIA'DYADIC(4)	AACS2'MOMUNL'PRESET	AACS	SIGNED	16	0	
F-0272	MOM_DYAD_8	INERTIA'DYADIC(8)	AACS2'MOMUNL'PRESET	AACS	SIGNED	16	0	
F-0274	MOM_EMERG_WT	EM'THRUSTER'WARM'UPTIME	AACS2'MOMUNL'PRESET	AACS	UNSIGNED	16	0	
F-0276	MOM_PRESETS	MOM'UNL'ENABLE	AACS2'MOMUNL'PRESET	AACS	DIGITAL	16	0	F-0276
F-0720	MOM_PRESET_0	MOM'UNL'ENABLE	AACS2'MOMUNL'PRESET	AACS	STATUS	1	0	F-0276/00
F-0721	MOM_PRESET_1	MOM'UNL'ENABLE	AACS2'MOMUNL'PRESET	AACS	STATUS	1	1	F-0276/01
F-0277	MOM_UNL_STAT	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	DIGITAL	16	0	F-0277
F-0278	MOM_WARMUP_T	THRUSTER'WARM'UPTIME	AACS2'MOMUNL'PRESET	AACS	UNSIGNED	16	0	
F-1623	MP_03	MISSION'PHASE'BUFFER(3)	SMOEXEC'CPL	CDH	STATUS	1	3	F-1096/03
F-1629	MP_LILOFF1	MISSION'PHASE'BUFFER(9)	SMOEXEC'CPL	CDH	STATUS	1	9	F-1096/09
F-1631	MP_LILOFF2	MISSION'PHASE'BUFFER(11)	SMOEXEC'CPL	CDH	STATUS	1	11	F-1096/11
F-1620	MP_MGS_SEP1	MISSION'PHASE'BUFFER(0)	SMOEXEC'CPL	CDH	STATUS	1	0	F-1096/00
F-1624	MP_MGS_SEP2	MISSION'PHASE'BUFFER(4)	SMOEXEC'CPL	CDH	STATUS	1	4	F-1096/04
F-1625	MP_MGS_SEP3	MISSION'PHASE'BUFFER(5)	SMOEXEC'CPL	CDH	STATUS	1	5	F-1096/05
F-1630	MP_MGS_SEP4	MISSION'PHASE'BUFFER(10)	SMOEXEC'CPL	CDH	STATUS	1	10	F-1096/10
F-1628	MP_MPR1	MISSION'PHASE'BUFFER(8)	SMOEXEC'CPL	CDH	STATUS	1	8	F-1096/08
F-1626	MP_MPR2	MISSION'PHASE'BUFFER(6)	SMOEXEC'CPL	CDH	STATUS	1	6	F-1096/06
F-1621	MP_MPR3	MISSION'PHASE'BUFFER(1)	SMOEXEC'CPL	CDH	STATUS	1	1	F-1096/01
F-1622	MP_POB_ECHO1	MISSION'PHASE'BUFFER(2)	SMOEXEC'CPL	CDH	STATUS	1	2	F-1096/02
F-1627	MP_POB_ECHO2	MISSION'PHASE'BUFFER(7)	SMOEXEC'CPL	CDH	STATUS	1	7	F-1096/07
F-1632	MP_POB_ECHO3	MISSION'PHASE'BUFFER(12)	SMOEXEC'CPL	CDH	STATUS	1	12	F-1096/12
F-1633	MP_SCP_ID	MISSION'PHASE'BUFFER(13)	SMOEXEC'CPL	CDH	STATUS	3	13	F-1096/13
F-1096	M_PHASE_BUFF	CIU'CHECK'INPUT	CYCEEXEC'CPL	CDH	DIGITAL	16	0	F-1096
F-0750	NEW_MODE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0283/10
F-0280	O_NORMAL_0	O'NORMAL(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0281	O_NORMAL_1	O'NORMAL(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0282	O_NORMAL_2	O'NORMAL(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0283	PACK_ATT	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0283
F-0754	PACK_ATT_14	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0283/14
F-1100	PDS_INTER	PDS'INTERRUPT'COUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-3030	PDS_MAXnotOK	MAX'CONSEC'PDS'NOT'OK	TELECOM'PRESET	TLCM	UNSIGNED	16	0	
F-3031	PDS_notOK_CT	TOTAL'PDS'NOT'OK'COUNT	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-1101	PDS_SENT	PDS'MESSAGES'SENT'COUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1102	PDS_SEQNO	PDS'SEQUENCE'NUMBER	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1103	PDS_TMOUT_CT	PDSTIMEOUT'COUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1104	PDS_TO_SEQNO	PDSTIMEOUT'SEQ'NUM	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1105	PDS_UNXMSGCT	PDS'UNEXPECTED'D'MSGTYPE'COUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-2200	PE00_B1TCntl	POWER'MGMT'ENABLE(0)	POWER'MGMT'PRESET	PWR	STATUS	1	0	F-2140/00
F-2201	PE01_B2TCntl	POWER'MGMT'ENABLE(1)	POWER'MGMT'PRESET	PWR	STATUS	1	1	F-2140/01
F-2202	PE02_B1Ifilt	POWER'MGMT'ENABLE(2)	POWER'MGMT'PRESET	PWR	STATUS	1	2	F-2140/02
F-2203	PE03_B2Ifilt	POWER'MGMT'ENABLE(3)	POWER'MGMT'PRESET	PWR	STATUS	1	3	F-2140/03
F-2204	PE04_B1ChCnt	POWER'MGMT'ENABLE(4)	POWER'MGMT'PRESET	PWR	STATUS	1	4	F-2140/04
F-2205	PE05_B2ChCnt	POWER'MGMT'ENABLE(5)	POWER'MGMT'PRESET	PWR	STATUS	1	5	F-2140/05
F-2206	PE06_B1ChRtR	POWER'MGMT'ENABLE(6)	POWER'MGMT'PRESET	PWR	STATUS	1	6	F-2140/06
F-2207	PE07_B2ChRtR	POWER'MGMT'ENABLE(7)	POWER'MGMT'PRESET	PWR	STATUS	1	7	F-2140/07
F-2208	PE08_BCR_Sw1	POWER'MGMT'ENABLE(8)	POWER'MGMT'PRESET	PWR	STATUS	1	8	F-2140/08
F-2209	PE09_BCR_Sw2	POWER'MGMT'ENABLE(9)	POWER'MGMT'PRESET	PWR	STATUS	1	9	F-2140/09
F-2210	PE10_CntAirt	POWER'MGMT'ENABLE(10)	POWER'MGMT'PRESET	PWR	STATUS	1	10	F-2140/10
F-2211	PE11_TImVerf	POWER'MGMT'ENABLE(11)	POWER'MGMT'PRESET	PWR	STATUS	1	11	F-2140/11

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2212	PE12_IScript	POWER'MGMT'ENABLE(12)	POWER'MGMT'PRESET	PWR	STATUS	1	12	F-2140/12
F-2213	PE13_EScript	POWER'MGMT'ENABLE(13)	POWER'MGMT'PRESET	PWR	STATUS	1	13	F-2140/13
F-2220	PF00_B1B2Low	POWER'FLAGS(0)	POWER'MGMT'CPL	PWR	STATUS	1	0	F-2145/00
F-2221	PF01_B1LoSOC	POWER'FLAGS(1)	POWER'MGMTCPL	PWR	STATUS	1	1	F-2145/01
F-2222	PF02_B1HiDcg	POWER'FLAGS(2)	POWER'MGMTCPL	PWR	STATUS	1	2	F-2145/02
F-2223	PF03_B1cdrHi	POWER'FLAGS(3)	POWER'MGMTCPL	PWR	STATUS	1	3	F-2145/03
F-2224	PF04_B1cdrLo	POWER'FLAGS(4)	POWER'MGMTCPL	PWR	STATUS	1	4	F-2145/04
F-2225	PF05_B1T3rdW	POWER'FLAGS(5)	POWER'MGMTCPL	PWR	STATUS	1	5	F-2145/05
F-2226	PF06_B1T2ndW	POWER'FLAGS(6)	POWER'MGMTCPL	PWR	STATUS	1	6	F-2145/06
F-2227	PF07_B1T1stW	POWER'FLAGS(7)	POWER'MGMTCPL	PWR	STATUS	1	7	F-2145/07
F-2228	PF08_B1B2Chg	POWER'FLAGS(8)	POWER'MGMTCPL	PWR	STATUS	1	8	F-2145/08
F-2229	PF09_B2LoSOC	POWER'FLAGS(9)	POWER'MGMTCPL	PWR	STATUS	1	9	F-2145/09
F-2230	PF10_B2HiDcg	POWER'FLAGS(10)	POWER'MGMTCPL	PWR	STATUS	1	10	F-2145/10
F-2231	PF11_B2cdrHi	POWER'FLAGS(11)	POWER'MGMTCPL	PWR	STATUS	1	11	F-2145/11
F-2232	PF12_B2cdrLo	POWER'FLAGS(12)	POWER'MGMTCPL	PWR	STATUS	1	12	F-2145/12
F-2233	PF13_B2T3rdW	POWER'FLAGS(13)	POWER'MGMTCPL	PWR	STATUS	1	13	F-2145/13
F-2234	PF14_B2T2ndW	POWER'FLAGS(14)	POWER'MGMTCPL	PWR	STATUS	1	14	F-2145/14
F-2235	PF15_B2T1stW	POWER'FLAGS(15)	POWER'MGMTCPL	PWR	STATUS	1	15	F-2145/15
F-0342	PIDTRQ_X	TORQ(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0343	PIDTRQ_Y	TORQ(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0344	PIDTRQ_Z	TORQ(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0287	PID_INT_X	PID'INT'TERM(0)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0288	PID_INT_Y	PID'INT'TERM(1)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0289	PID_INT_Z	PID'INT'TERM(2)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-1110	POBimgCIU138	BUFFER'IMAGE(1)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1111	POBimgCIU21A	BUFFER'IMAGE(36)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1112	POBimgCIU22A	BUFFER'IMAGE(37)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1113	POBimgCIU232	BUFFER'IMAGE(38)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1114	POBimgCIU234	BUFFER'IMAGE(39)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1115	POBimgCIU246	BUFFER'IMAGE(40)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1116	POBimgCIU24A	BUFFER'IMAGE(41)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1117	POBimgCIU262	BUFFER'IMAGE(42)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1118	POBimgCIU292	BUFFER'IMAGE(43)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1119	POBimgCIU294	BUFFER'IMAGE(44)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1120	POBimgCIU298	BUFFER'IMAGE(45)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1121	POBimgCIU2A2	BUFFER'IMAGE(46)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1122	POBimgCIUA12	BUFFER'IMAGE(47)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1123	POBimgCIUAA0	BUFFER'IMAGE(48)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1124	POBimgCIUAC0	BUFFER'IMAGE(49)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1130	POBimgCIX138	BUFFER'IMAGE(2)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1131	POBimgCIX20E	BUFFER'IMAGE(3)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1132	POBimgCIX216	BUFFER'IMAGE(4)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1133	POBimgCIX21C	BUFFER'IMAGE(5)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1134	POBimgCIX22C	BUFFER'IMAGE(6)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1135	POBimgCIX232	BUFFER'IMAGE(7)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1136	POBimgCIX24C	BUFFER'IMAGE(8)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1137	POBimgCIX254	BUFFER'IMAGE(9)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1138	POBimgCIX258	BUFFER'IMAGE(10)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1139	POBimgCIX270	BUFFER'IMAGE(11)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1140	POBimgCIX286	BUFFER'IMAGE(12)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1141	POBimgCIX28A	BUFFER'IMAGE(13)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1142	POBimgCIX28C	BUFFER'IMAGE(14)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1143	POBimgCIX2A4	BUFFER'IMAGE(15)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1144	POBimgCIX2A8	BUFFER'IMAGE(16)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1145	POBimgCIX2C2	BUFFER'IMAGE(17)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1146	POBimgCIX2C4	BUFFER'IMAGE(18)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1147	POBimgCIX2C8	BUFFER'IMAGE(19)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1148	POBimgCIXA06	BUFFER'IMAGE(20)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1149	POBimgCIXA0A	BUFFER'IMAGE(21)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1150	POBimgCIXA0C	BUFFER'IMAGE(22)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1151	POBimgCIXA14	BUFFER'IMAGE(23)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1152	POBimgCIXA18	BUFFER'IMAGE(24)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1153	POBimgCIXA22	BUFFER'IMAGE(25)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1154	POBimgCIXA24	BUFFER'IMAGE(26)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1155	POBimgCIXA28	BUFFER'IMAGE(27)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1156	POBimgCIXA42	BUFFER'IMAGE(28)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1157	POBimgCIXA44	BUFFER'IMAGE(29)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1158	POBimgCIXA48	BUFFER'IMAGE(30)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1159	POBimgCIXA60	BUFFER'IMAGE(31)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1160	POBimgCIXA82	BUFFER'IMAGE(32)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1161	POBimgCIXA84	BUFFER'IMAGE(33)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1162	POBimgCIXA88	BUFFER'IMAGE(34)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1163	POBimgCIXA90	BUFFER'IMAGE(35)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-0290	POS_ERR_X	POS'ERR(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0291	POS_ERR_Y	POSERR(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0292	POS_ERR_Z	POS'ERR(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0293	POS_INTERR_X	POS'SUM(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0294	POS_INTERR_Y	POS'SUM(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0295	POS_INTERR_Z	POS'SUM(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-2280	POWER_TIME	POWERTIME	CYCEEXEC'CPL	PWR	UNSIGNED	16	0	
F-0297	PROP_SUN_X	PROP'SUN(0)	AACS2'CPL	AACS	SIGNED	16	0	
F-0298	PROP_SUN_Y	PROP'SUN(1)	AACS2'CPL	AACS	SIGNED	16	0	
F-0299	PROP_SUN_Z	PROP'SUN(2)	AACS2'CPL	AACS	SIGNED	16	0	
F-2240	PS00_MC_Cmds	POWER'STATUS(0)	POWER'MGMT'CPL	PWR	STATUS	1	0	F-2150/00
F-2241	PS01_B1_LwVT	POWER'STATUS(1)	POWER'MGMT'CPL	PWR	STATUS	1	1	F-2150/01
F-2242	PS02_B1_CRR	POWER'STATUS(2)	POWER'MGMT'CPL	PWR	STATUS	1	2	F-2150/02
F-2243	PS03_B1_Itlm	POWER'STATUS(3)	POWER'MGMT'CPL	PWR	STATUS	1	3	F-2150/03
F-2244	PS04_B1_DTC	POWER'STATUS(4)	POWER'MGMT'CPL	PWR	STATUS	1	4	F-2150/04
F-2245	PS05_B1_BCR	POWER'STATUS(5)	POWER'MGMT'CPL	PWR	STATUS	1	5	F-2150/05
F-2246	PS06_B1_VT	POWER'STATUS(6)	POWER'MGMT'CPL	PWR	STATUS	1	6	F-2150/06
F-2247	PS07_B1_Ttlm	POWER'STATUS(7)	POWER'MGMT'CPL	PWR	STATUS	1	7	F-2150/07
F-2248	PS08_SUN_ON	POWER'STATUS(8)	POWER'MGMT'CPL	PWR	STATUS	1	8	F-2150/08
F-2249	PS09_B2_LwVT	POWER'STATUS(9)	POWER'MGMT'CPL	PWR	STATUS	1	9	F-2150/09
F-2250	PS10_B2_CRR	POWER'STATUS(10)	POWER'MGMT'CPL	PWR	STATUS	1	10	F-2150/10
F-2251	PS11_B2_Itlm	POWER'STATUS(11)	POWER'MGMT'CPL	PWR	STATUS	1	11	F-2150/11
F-2252	PS12_B2_DTC	POWER'STATUS(12)	POWER'MGMT'CPL	PWR	STATUS	1	12	F-2150/12
F-2253	PS13_B2_BCR	POWER'STATUS(13)	POWER'MGMT'CPL	PWR	STATUS	1	13	F-2150/13
F-2254	PS14_B2_VT	POWER'STATUS(14)	POWER'MGMT'CPL	PWR	STATUS	1	14	F-2150/14

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2255	PS15_B2_TtIm	POWER'STATUS(15)	POWER'MGMT'CPL	PWR	STATUS	1	15	F-2150/15
F-2101	PSE_CMDSENT1	PSE'CMD'SENT(1)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2102	PSE_CMDSENT2	PSE'CMD'SENT(2)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2103	PSE_CMDSENT3	PSE'CMD'SENT(3)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2104	PSE_CMDSENT4	PSE'CMD'SENT(4)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2105	PSE_CMDSENT5	PSE'CMD'SENT(5)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2106	PSE_CMDSENT6	PSE'CMD'SENT(6)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2107	PSE_CMDSENT7	PSE'CMD'SENT(7)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2108	PSE_CMDSENT8	PSE'CMD'SENT(8)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2110	PSE_LAST_CMD	LASTPSE'CMD	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2111	PSE_QFULL_CT	PSE'QUE'FULL'COUNT	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2131	PWR_DATA_W01	POWER'DATA	SUBCOM'CPL	PWR	DIGITAL	16	0	
F-2132	PWR_DATA_W07	POWER'DATA	SUBCOM'CPL	PWR	DIGITAL	16	0	
F-2133	PWR_DATA_W08	POWER'DATA	SUBCOM'CPL	PWR	DIGITAL	16	0	
F-2134	PWR_DATA_W09	POWER'DATA	SUBCOM'CPL	PWR	DIGITAL	16	0	
F-2135	PWR_DATA_W10	POWER'DATA	SUBCOM'CPL	PWR	DIGITAL	16	0	
F-2140	PWR_ENA_WORD	POWER'MGMT'ENABLE	POWER'MGMT'PRESET	PWR	DIGITAL	16	0	F-2140
F-2145	PWR_FLGS_WRD	POWER'FLAGS	POWER'MGMT'CPL	PWR	DIGITAL	16	0	F-2145
F-2150	PWR_STAT_WRD	POWER'STATUS	POWER'MGMT'CPL	PWR	DIGITAL	16	0	F-2150
F-0301	QUAT_A2B_1	QUAT'B'FROM'A(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0302	QUAT_A2B_2	QUAT'B'FROM'A(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0303	QUAT_A2B_3	QUAT'B'FROM'A(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0305	QUAT_CORR_1	Q'B'FROM'E'CORR'FOR'A10(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0306	QUAT_CORR_2	Q'B'FROM'E'CORR'FOR'A10(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0307	QUAT_CORR_3	Q'B'FROM'E'CORR'FOR'A10(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0308	QUAT_CORR_4	Q'B'FROM'E'CORR'FOR'A10(3)	STAREX'CPL	AACS	SIGNED	16	0	
F-0311	QUAT_E2L_1	QTRN'L'FROM'E(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0312	QUAT_E2L_2	QTRN'L'FROM'E(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0313	QUAT_E2L_3	QTRN'L'FROM'E(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0314	QUAT_E2L_4	QTRN'L'FROM'E(3)	STAREX'CPL	AACS	SIGNED	16	0	
F-0315	QUAT_F_I2B_1	TLM'QTRN'B'FROM'E(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0316	QUAT_F_I2B_2	TLM'QTRN'B'FROM'E(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0317	QUAT_F_I2B_3	TLM'QTRN'B'FROM'E(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0318	QUAT_F_I2B_4	TLM'QTRN'B'FROM'E(3)	AACS10'CPL	AACS	SIGNED	16	0	
F-0321	QUAT_I2B_1	QUAT'B'FROM'I'BU(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0322	QUAT_I2B_2	QUAT'B'FROM'I'BU(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0323	QUAT_I2B_3	QUAT'B'FROM'I'BU(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0324	QUAT_I2B_4	QUAT'B'FROM'I'BU(3)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-1348	RDMN_SW_SUM1	SWITCH'SUMMARY	REDMAN'CPL	CDH	DIGITAL	16	0	F-1348
F-1349	RDMN_SW_SUM2	SWITCH'SUMMARY	REDMAN'CPL	CDH	DIGITAL	16	0	F-1349
F-1170	RDM_ABSNTDAT	ERROR'DATA'ABSENT'COUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1171	RDM_AUTENSCP	AUTO'SCP'SWITCH'ENABLE	REDMAN'CPL	CDH	STATUS	4	12	
F-1172	RDM_BADMSGCT	REDMSG'BADTYPE'COUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1180	RDM_CE_CT_20	CONSEC'ERROR'COUNT(20)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1181	RDM_CE_CT_21	CONSEC'ERROR'COUNT(21)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1182	RDM_CE_CT_22	CONSEC'ERROR'COUNT(22)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1183	RDM_CE_CT_23	CONSEC'ERROR'COUNT(23)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1184	RDM_CE_CT_24	CONSEC'ERROR'COUNT(24)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1185	RDM_CE_CT_25	CONSEC'ERROR'COUNT(25)	REDMAN'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1186	RDM_CE_CT_26	CONSECERROR'COUNT(26)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1187	RDM_CE_CT_27	CONSECERROR'COUNT(27)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1188	RDM_CE_CT_28	CONSECERROR'COUNT(28)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1189	RDM_CE_CT_29	CONSECERROR'COUNT(29)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1190	RDM_CE_CT_30	CONSECERROR'COUNT(30)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1191	RDM_CE_CT_31	CONSECERROR'COUNT(31)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1192	RDM_CE_CT_32	CONSECERROR'COUNT(32)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1193	RDM_CE_CT_33	CONSECERROR'COUNT(33)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1194	RDM_CE_CT_34	CONSECERROR'COUNT(34)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1195	RDM_CE_CT_35	CONSECERROR'COUNT(35)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1196	RDM_CE_CT_36	CONSECERROR'COUNT(36)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1197	RDM_CE_CT_37	CONSECERROR'COUNT(37)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1198	RDM_CE_CT_38	CONSECERROR'COUNT(38)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1199	RDM_CE_CT_39	CONSECERROR'COUNT(39)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1200	RDM_CE_CT_40	CONSECERROR'COUNT(40)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1201	RDM_CE_CT_41	CONSECERROR'COUNT(41)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1202	RDM_CE_CT_42	CONSECERROR'COUNT(42)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1203	RDM_CE_CT_43	CONSECERROR'COUNT(43)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1204	RDM_CE_CT_44	CONSECERROR'COUNT(44)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1205	RDM_CE_CT_45	CONSECERROR'COUNT(45)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1206	RDM_CE_CT_46	CONSECERROR'COUNT(46)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1207	RDM_CE_CT_47	CONSECERROR'COUNT(47)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1208	RDM_CE_CT_48	CONSECERROR'COUNT(48)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1209	RDM_CE_CT_49	CONSECERROR'COUNT(49)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1210	RDM_CE_CT_50	CONSECERROR'COUNT(50)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1211	RDM_CE_CT_51	CONSECERROR'COUNT(51)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1212	RDM_CE_CT_52	CONSECERROR'COUNT(52)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1213	RDM_CE_CT_53	CONSECERROR'COUNT(53)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1214	RDM_CE_CT_54	CONSECERROR'COUNT(54)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1215	RDM_CE_CT_55	CONSECERROR'COUNT(55)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1216	RDM_CE_CT_56	CONSECERROR'COUNT(56)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1217	RDM_CE_CT_57	CONSECERROR'COUNT(57)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1218	RDM_CE_CT_58	CONSECERROR'COUNT(58)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1219	RDM_CE_CT_59	CONSECERROR'COUNT(59)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1220	RDM_CE_CT_60	CONSECERROR'COUNT(60)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1221	RDM_CE_CT_61	CONSECERROR'COUNT(61)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1222	RDM_CE_CT_62	CONSECERROR'COUNT(62)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1223	RDM_CE_CT_63	CONSECERROR'COUNT(63)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1224	RDM_CE_CT_64	CONSECERROR'COUNT(64)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1225	RDM_CE_CT_65	CONSECERROR'COUNT(65)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1226	RDM_CE_CT_66	CONSECERROR'COUNT(66)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1227	RDM_CE_CT_67	CONSECERROR'COUNT(67)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1228	RDM_CE_CT_68	CONSECERROR'COUNT(68)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1229	RDM_CE_CT_69	CONSECERROR'COUNT(69)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1230	RDM_CE_CT_70	CONSECERROR'COUNT(70)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1231	RDM_CE_CT_71	CONSECERROR'COUNT(71)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1232	RDM_CE_CT_72	CONSECERROR'COUNT(72)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1233	RDM_CE_CT_73	CONSECERROR'COUNT(73)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1234	RDM_CE_CT_74	CONSECERROR'COUNT(74)	REDMAN'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1236	RDM_CONTMODE	MAIN'DEVICE'CONFIG'INFO(2)	SMOEXECCPL	CDH	STATUS	4	12	
F-1722	RDM_DC1_EDF	MAIN'DEVICE'CONFIG'INFO(7)	REDMAN'CPL	AACS	STATUS	1	2	F-1237/02
F-1727	RDM_DC1_HGA	MAIN'DEVICE'CONFIG'INFO(8)	REDMAN'CPL	AACS	STATUS	1	7	F-1237/07
F-1728	RDM_DC1_MHSA	MAIN'DEVICE'CONFIG'INFO(4)	REDMAN'CPL	AACS	STATUS	1	8	F-1237/08
F-1724	RDM_DC1_PSE	MAIN'DEVICE'CONFIG'INFO(1)	REDMAN'CPL	AACS	STATUS	1	4	F-1237/04
F-1721	RDM_DC1_RPA	MAIN'DEVICE'CONFIG'INFO(6)	REDMAN'CPL	AACS	STATUS	1	1	F-1237/01
F-1726	RDM_DC1_SAM	MAIN'DEVICE'CONFIG'INFO(5)	REDMAN'CPL	AACS	STATUS	1	6	F-1237/06
F-1725	RDM_DC1_SAP	MAIN'DEVICE'CONFIG'INFO(10)	REDMAN'CPL	AACS	STATUS	1	5	F-1237/05
F-1729	RDM_DC1_SP09	MAIN'DEVICE'CONFIG'INFO(9)	REDMAN'CPL	AACS	STATUS	1	9	F-1237/09
F-1730	RDM_DC1_SP10	MAIN'DEVICE'CONFIG'INFO(11)	REDMAN'CPL	AACS	STATUS	1	10	F-1237/10
F-1731	RDM_DC1_SP11	MAIN'DEVICE'CONFIG'INFO(12)	REDMAN'CPL	AACS	STATUS	1	11	F-1237/11
F-1732	RDM_DC1_SP12	MAIN'DEVICE'CONFIG'INFO(13)	REDMAN'CPL	AACS	STATUS	1	12	F-1237/12
F-1733	RDM_DC1_SP13	MAIN'DEVICE'CONFIG'INFO(14)	REDMAN'CPL	AACS	STATUS	1	13	F-1237/13
F-1734	RDM_DC1_SP14	MAIN'DEVICE'CONFIG'INFO(15)	REDMAN'CPL	AACS	STATUS	1	14	F-1237/14
F-1735	RDM_DC1_SP15	MAIN'DEVICE'CONFIG'INFO(0)	REDMAN'CPL	AACS	STATUS	1	15	F-1237/15
F-1720	RDM_DC1_SSA	MAIN'DEVICE'CONFIG'INFO(3)	REDMAN'CPL	AACS	STATUS	1	0	F-1237/00
F-1723	RDM_DC1_XSU	MAIN'DEVICE'CONFIG'INFO(7)	REDMAN'CPL	AACS	STATUS	1	3	F-1237/03
F-1747	RDM_DC2_FRWA	MAIN'DEVICE'CONFIG'INFO(0)	REDMAN'CPL	AACS	STATUS	1	7	F-1238/07
F-1740	RDM_DC2_GYRO	MAIN'DEVICE'CONFIG'INFO(8)	REDMAN'CPL	AACS	STATUS	3	0	F-1238/00
F-1748	RDM_DC2_REA	MAIN'DEVICE'CONFIG'INFO(3)	REDMAN'CPL	AACS	STATUS	2	8	F-1238/08
F-1743	RDM_DC2_RWA	MAIN'DEVICE'CONFIG'INFO(10)	REDMAN'CPL	AACS	STATUS	4	3	F-1238/03
F-1750	RDM_DC2_SP10	MAIN'DEVICE'CONFIG'INFO(11)	REDMAN'CPL	AACS	STATUS	1	10	F-1238/10
F-1751	RDM_DC2_SP11	MAIN'DEVICE'CONFIG'INFO(12)	REDMAN'CPL	AACS	STATUS	1	11	F-1238/11
F-1752	RDM_DC2_SP12	MAIN'DEVICE'CONFIG'INFO(13)	REDMAN'CPL	AACS	STATUS	1	12	F-1238/12
F-1753	RDM_DC2_SP13	MAIN'DEVICE'CONFIG'INFO(14)	REDMAN'CPL	AACS	STATUS	1	13	F-1238/13
F-1754	RDM_DC2_SP14	MAIN'DEVICE'CONFIG'INFO(15)	REDMAN'CPL	AACS	STATUS	1	14	F-1238/14
F-1755	RDM_DC2_SP15	MAIN'DEVICE'CONFIG'INFO(0)	REDMAN'CPL	AACS	STATUS	1	15	F-1238/15
F-1237	RDM_DEV_CFG1	MAIN'DEVICE'CONFIG'INFO	REDMAN'CPL	AACS	DIGITAL	16	0	F-1237
F-1238	RDM_DEV_CFG2	MAIN'DEVICE'CONFIG'INFO	REDMAN'CPL	AACS	DIGITAL	16	0	F-1238
F-1240	RDM_EDFonTIM	EDF'INITIALIZATION'STARTTIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1250	RDM_GMSWREN	GYRO'SHORTRECOVERY'ENABLE	REDMAN'CPL	CDH	STATUS	4	12	
F-1251	RDM_GMWSRST	GYRO'SHORTRECOVERY'STARTTIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1252	RDM_GYRONTIM	GYROPOWER'ONTIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1253	RDM_GYROPWSH	GYROPOWER'ONTIME	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1254	RDM_GYRORCSH	GYRO'SHORTRECOVERY'STARTTIME	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1255	RDM_GYRO_CNF	ORIGINAL'CHANNEL'CONFIG	REDMAN'CPL	CDH	STATUS	4	12	
F-1256	RDM_GYscPHSE	GYRO'SHORTRECOVERY'PHASE	REDMAN'CPL	CDH	STATUS	4	12	
F-1260	RDM_IMURCOVT	MISSIED'IMU'INTRCVRY'STARTTIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1261	RDM_IMUTWMIS	MISSIED'IMU'INT'RCVRY'STARTTIME	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1262	RDM_IMU_STAT	EXPECTED'IMU'STATUS'WORD	REDMAN'CPL	CDH	DIGITAL	16	0	
F-1270	RDM_LETIME20	TIME'OF'LAST'ERROR(20)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1271	RDM_LETIME21	TIME'OF'LAST'ERROR(21)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1272	RDM_LETIME22	TIME'OF'LAST'ERROR(22)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1273	RDM_LETIME23	TIME'OF'LAST'ERROR(23)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1274	RDM_LETIME24	TIME'OF'LAST'ERROR(24)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1275	RDM_LETIME25	TIME'OF'LAST'ERROR(25)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1276	RDM_LETIME26	TIME'OF'LAST'ERROR(26)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1277	RDM_LETIME27	TIME'OF'LAST'ERROR(27)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1278	RDM_LETIME28	TIME'OF'LAST'ERROR(28)	REDMAN'CPL	CDH	UNSIGNED	32	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1279	RDM_LETIME29	TIME'OF'LAST'ERROR(29)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1280	RDM_LETIME30	TIME'OF'LAST'ERROR(30)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1281	RDM_LETIME31	TIME'OF'LAST'ERROR(31)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1282	RDM_LETIME32	TIME'OF'LAST'ERROR(32)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1283	RDM_LETIME33	TIME'OF'LAST'ERROR(33)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1284	RDM_LETIME34	TIME'OF'LAST'ERROR(34)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1285	RDM_LETIME35	TIME'OF'LAST'ERROR(35)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1286	RDM_LETIME36	TIME'OF'LAST'ERROR(36)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1287	RDM_LETIME37	TIME'OF'LAST'ERROR(37)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1288	RDM_LETIME38	TIME'OF'LAST'ERROR(38)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1289	RDM_LETIME39	TIME'OF'LAST'ERROR(39)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1290	RDM_LETIME40	TIME'OF'LAST'ERROR(40)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1291	RDM_LETIME41	TIME'OF'LAST'ERROR(41)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1292	RDM_LETIME42	TIME'OF'LAST'ERROR(42)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1293	RDM_LETIME43	TIME'OF'LAST'ERROR(43)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1294	RDM_LETIME44	TIME'OF'LAST'ERROR(44)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1295	RDM_LETIME45	TIME'OF'LAST'ERROR(45)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1296	RDM_LETIME46	TIME'OF'LAST'ERROR(46)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1297	RDM_LETIME47	TIME'OF'LAST'ERROR(47)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1298	RDM_LETIME48	TIME'OF'LAST'ERROR(48)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1299	RDM_LETIME49	TIME'OF'LAST'ERROR(49)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1300	RDM_LETIME50	TIME'OF'LAST'ERROR(50)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1301	RDM_LETIME51	TIME'OF'LAST'ERROR(51)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1302	RDM_LETIME52	TIME'OF'LAST'ERROR(52)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1303	RDM_LETIME53	TIME'OF'LAST'ERROR(53)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1304	RDM_LETIME54	TIME'OF'LAST'ERROR(54)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1305	RDM_LETIME55	TIME'OF'LAST'ERROR(55)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1306	RDM_LETIME56	TIME'OF'LAST'ERROR(56)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1307	RDM_LETIME57	TIME'OF'LAST'ERROR(57)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1308	RDM_LETIME58	TIME'OF'LAST'ERROR(58)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1309	RDM_LETIME59	TIME'OF'LAST'ERROR(59)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1310	RDM_LETIME60	TIME'OF'LAST'ERROR(60)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1311	RDM_LETIME61	TIME'OF'LAST'ERROR(61)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1312	RDM_LETIME62	TIME'OF'LAST'ERROR(62)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1313	RDM_LETIME63	TIME'OF'LAST'ERROR(63)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1314	RDM_LETIME64	TIME'OF'LAST'ERROR(64)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1315	RDM_LETIME65	TIME'OF'LAST'ERROR(65)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1316	RDM_LETIME66	TIME'OF'LAST'ERROR(66)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1317	RDM_LETIME67	TIME'OF'LAST'ERROR(67)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1318	RDM_LETIME68	TIME'OF'LAST'ERROR(68)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1319	RDM_LETIME69	TIME'OF'LAST'ERROR(69)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1320	RDM_LETIME70	TIME'OF'LAST'ERROR(70)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1321	RDM_LETIME71	TIME'OF'LAST'ERROR(71)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1322	RDM_LETIME72	TIME'OF'LAST'ERROR(72)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1323	RDM_LETIME73	TIME'OF'LAST'ERROR(73)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1324	RDM_LETIME74	TIME'OF'LAST'ERROR(74)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1328	RDM_NEEDDATA	FOLLOWUPREQ'DATA'COUNT	REDMANCPL	CDH	UNSIGNED	16	0	
F-1330	RDM_RWA_CNFG	ORIGINAL'RWA'CONFIG	REDMANCPL	CDH	STATUS	4	12	
F-1331	RDM_RWA_FREZ	FREEZE'RWA'CONFIG	REDMANCPL	CDH	STATUS	4	12	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1340	RDM_SIDE_EDF	CURRENTEDFSIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1341	RDM_SIDE_HGA	CURRENTHGA'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1342	RDM_SIDE_MHS	CURRENTMHSASIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1343	RDM_SIDE_PSE	CURRENTPSE'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1339	RDM_SIDE_RPA	CURRENTRPA'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1344	RDM_SIDE_SAM	CURRENTSAM'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1345	RDM_SIDE_SAP	CURRENTSAP'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1346	RDM_SIDE_SSA	CURRENTSSA'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1347	RDM_SIDE_XSU	CURRENTXSU'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1350	RDM_TE_CT_20	REDMAN'TOTAL'ERROR'COUNT(20)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1351	RDM_TE_CT_21	REDMAN'TOTAL'ERROR'COUNT(21)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1352	RDM_TE_CT_22	REDMAN'TOTAL'ERROR'COUNT(22)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1353	RDM_TE_CT_23	REDMAN'TOTAL'ERROR'COUNT(23)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1354	RDM_TE_CT_24	REDMAN'TOTAL'ERROR'COUNT(24)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1355	RDM_TE_CT_25	REDMAN'TOTAL'ERROR'COUNT(25)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1356	RDM_TE_CT_26	REDMAN'TOTAL'ERROR'COUNT(26)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1357	RDM_TE_CT_27	REDMAN'TOTAL'ERROR'COUNT(27)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1358	RDM_TE_CT_28	REDMAN'TOTAL'ERROR'COUNT(28)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1359	RDM_TE_CT_29	REDMAN'TOTAL'ERROR'COUNT(29)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1360	RDM_TE_CT_30	REDMAN'TOTAL'ERROR'COUNT(30)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1361	RDM_TE_CT_31	REDMAN'TOTAL'ERROR'COUNT(31)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1362	RDM_TE_CT_32	REDMAN'TOTAL'ERROR'COUNT(32)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1363	RDM_TE_CT_33	REDMAN'TOTAL'ERROR'COUNT(33)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1364	RDM_TE_CT_34	REDMAN'TOTAL'ERROR'COUNT(34)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1365	RDM_TE_CT_35	REDMAN'TOTAL'ERROR'COUNT(35)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1366	RDM_TE_CT_36	REDMAN'TOTAL'ERROR'COUNT(36)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1367	RDM_TE_CT_37	REDMAN'TOTAL'ERROR'COUNT(37)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1368	RDM_TE_CT_38	REDMAN'TOTAL'ERROR'COUNT(38)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1369	RDM_TE_CT_39	REDMAN'TOTAL'ERROR'COUNT(39)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1370	RDM_TE_CT_40	REDMAN'TOTAL'ERROR'COUNT(40)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1371	RDM_TE_CT_41	REDMAN'TOTAL'ERROR'COUNT(41)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1372	RDM_TE_CT_42	REDMAN'TOTAL'ERROR'COUNT(42)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1373	RDM_TE_CT_43	REDMAN'TOTAL'ERROR'COUNT(43)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1374	RDM_TE_CT_44	REDMAN'TOTAL'ERROR'COUNT(44)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1375	RDM_TE_CT_45	REDMAN'TOTAL'ERROR'COUNT(45)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1376	RDM_TE_CT_46	REDMAN'TOTAL'ERROR'COUNT(46)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1377	RDM_TE_CT_47	REDMAN'TOTAL'ERROR'COUNT(47)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1378	RDM_TE_CT_48	REDMAN'TOTAL'ERROR'COUNT(48)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1379	RDM_TE_CT_49	REDMAN'TOTAL'ERROR'COUNT(49)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1380	RDM_TE_CT_50	REDMAN'TOTAL'ERROR'COUNT(50)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1381	RDM_TE_CT_51	REDMAN'TOTAL'ERROR'COUNT(51)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1382	RDM_TE_CT_52	REDMAN'TOTAL'ERROR'COUNT(52)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1383	RDM_TE_CT_53	REDMAN'TOTAL'ERROR'COUNT(53)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1384	RDM_TE_CT_54	REDMAN'TOTAL'ERROR'COUNT(54)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1385	RDM_TE_CT_55	REDMAN'TOTAL'ERROR'COUNT(55)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1386	RDM_TE_CT_56	REDMAN'TOTAL'ERROR'COUNT(56)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1387	RDM_TE_CT_57	REDMAN'TOTAL'ERROR'COUNT(57)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1388	RDM_TE_CT_58	REDMAN'TOTAL'ERROR'COUNT(58)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1389	RDM_TE_CT_59	REDMAN'TOTAL'ERROR'COUNT(59)	REDMAN'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1390	RDM_TE_CT_60	REDMAN'TOTAL'ERROR'COUNT(60)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1391	RDM_TE_CT_61	REDMAN'TOTAL'ERROR'COUNT(61)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1392	RDM_TE_CT_62	REDMAN'TOTAL'ERROR'COUNT(62)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1393	RDM_TE_CT_63	REDMAN'TOTAL'ERROR'COUNT(63)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1394	RDM_TE_CT_64	REDMAN'TOTAL'ERROR'COUNT(64)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1395	RDM_TE_CT_65	REDMAN'TOTAL'ERROR'COUNT(65)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1396	RDM_TE_CT_66	REDMAN'TOTAL'ERROR'COUNT(66)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1397	RDM_TE_CT_67	REDMAN'TOTAL'ERROR'COUNT(67)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1398	RDM_TE_CT_68	REDMAN'TOTAL'ERROR'COUNT(68)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1399	RDM_TE_CT_69	REDMAN'TOTAL'ERROR'COUNT(69)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1400	RDM_TE_CT_70	REDMAN'TOTAL'ERROR'COUNT(70)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1401	RDM_TE_CT_71	REDMAN'TOTAL'ERROR'COUNT(71)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1402	RDM_TE_CT_72	REDMAN'TOTAL'ERROR'COUNT(72)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1403	RDM_TE_CT_73	REDMAN'TOTAL'ERROR'COUNT(73)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1404	RDM_TE_CT_74	REDMAN'TOTAL'ERROR'COUNT(74)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1405	RDM_TE_CT_75	REDMAN'TOTAL'ERROR'COUNT(75)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1408	RDM_XS_ERRS	TOOMANY'FOLLOWUP'COUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1651	RDS1_SW_B11	SWITCH'SUMMARY(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1348/11
F-1652	RDS1_SW_B12	SWITCH'SUMMARY(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1348/12
F-1653	RDS1_SW_B13	SWITCH'SUMMARY(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1348/13
F-1654	RDS1_SW_B14	SWITCH'SUMMARY(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1348/14
F-1655	RDS1_SW_B15	SWITCH'SUMMARY(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1348/15
F-1640	RDS1_SW_BUS	SWITCH'SUMMARY(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1348/00
F-1643	RDS1_SW_EDF	SWITCH'SUMMARY(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1348/03
F-1650	RDS1_SW_HGA	SWITCH'SUMMARY(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1348/10
F-1642	RDS1_SW_IMU	SWITCH'SUMMARY(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1348/02
F-1646	RDS1_SW_MOT	SWITCH'SUMMARY(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1348/06
F-1647	RDS1_SW_PSE	SWITCH'SUMMARY(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1348/07
F-1645	RDS1_SW_RPA	SWITCH'SUMMARY(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1348/05
F-1649	RDS1_SW_SAM	SWITCH'SUMMARY(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1348/09
F-1648	RDS1_SW_SAP	SWITCH'SUMMARY(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1348/08
F-1641	RDS1_SW_SSA	SWITCH'SUMMARY(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1348/01
F-1644	RDS1_SW_XSU	SWITCH'SUMMARY(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1348/04
F-1708	RDS2_REA1ISO	SWITCH'SUMMARY(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1349/08
F-1709	RDS2_REA2ISO	SWITCH'SUMMARY(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1349/09
F-1701	RDS2_SPARE01	SWITCH'SUMMARY(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1349/01
F-1703	RDS2_SPARE03	SWITCH'SUMMARY(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1349/03
F-1711	RDS2_SPARE11	SWITCH'SUMMARY(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1349/11
F-1712	RDS2_SPARE12	SWITCH'SUMMARY(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1349/12
F-1713	RDS2_SPARE13	SWITCH'SUMMARY(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1349/13
F-1714	RDS2_SPARE14	SWITCH'SUMMARY(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1349/14
F-1715	RDS2_SPARE15	SWITCH'SUMMARY(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1349/15
F-1705	RDS2_SW2REA	SWITCH'SUMMARY(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1349/05
F-1706	RDS2_SW2SUNA	SWITCH'SUMMARY(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1349/06
F-1707	RDS2_SWREA	SWITCH'SUMMARY(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1349/07
F-1700	RDS2_TNKOP1L	SWITCH'SUMMARY(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1349/00
F-1702	RDS2_TNKOP2L	SWITCH'SUMMARY(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1349/02
F-1704	RDS2_TNKUPL	SWITCH'SUMMARY(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1349/04
F-1710	RDS2_TWTAFIL	SWITCH'SUMMARY(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1349/10

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0327	RTEsmRAWBD_X	RAW'BODY'RATES(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0328	RTEsmRAWBD_Y	RAW'BODY'RATES(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0329	RTEsmRAWBD_Z	RAW'BODY'RATES(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0330	RTE_CMD_X	COM'RATE	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0331	RTE_CMD_Y	COM'RATE	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0332	RTE_CMD_Z	COM'RATE	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0333	RTE_FLTBDY_X	TLM'FIL'BODY'RATES(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0334	RTE_FLTBDY_Y	TLM'FIL'BODY'RATES(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0335	RTE_FLTBDY_Z	TLM'FIL'BODY'RATES(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0336	RTE_INTERR_X	RATE'SUM(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0337	RTE_INTERR_Y	RATE'SUM(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0338	RTE_INTERR_Z	RATE'SUM(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0339	RTE_RAWBOD_X	RAW'BODY'RATES(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0340	RTE_RAWBOD_Y	RAW'BODY'RATES(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0341	RTE_RAWBOD_Z	RAW'BODY'RATES(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0604	RWA_PID_INT	ATT'ENABS(4)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	4	F-0005/04
F-0348	RWA_RAW_S	RWA'RAW'WORD(3)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0348
F-0345	RWA_RAW_X	RWA'RAW'WORD(0)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0345
F-0346	RWA_RAW_Y	RWA'RAW'WORD(1)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0346
F-0347	RWA_RAW_Z	RWA'RAW'WORD(2)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0347
F-0350	RWA_SPD_S	WHL'SPD(3)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0351	RWA_SPD_X	WHL'SPD(0)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0352	RWA_SPD_Y	WHL'SPD(1)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0353	RWA_SPD_Z	WHL'SPD(2)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0791	RWA_S_ID	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0348/01
F-0794	RWA_S_PWRLIM	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0348/04
F-0793	RWA_S_PWR_ST	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0348/03
F-0795	RWA_S_SPDMAG	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0348/05
F-0790	RWA_S_SPDsgn	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0348/00
F-0355	RWA_WHLTRQ_S	WHL'TORQ(3)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0356	RWA_WHLTRQ_X	WHL'TORQ(0)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0357	RWA_WHLTRQ_Y	WHL'TORQ(1)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0358	RWA_WHLTRQ_Z	WHL'TORQ(2)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0761	RWA_X_ID	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0345/01
F-0764	RWA_X_PWRLIM	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0345/04
F-0763	RWA_X_PWR_ST	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0345/03
F-0765	RWA_X_SPDMAG	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0345/05
F-0760	RWA_X_SPDsgn	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0345/00
F-0771	RWA_Y_ID	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0346/01
F-0774	RWA_Y_PWRLIM	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0346/04
F-0773	RWA_Y_PWR_ST	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0346/03
F-0775	RWA_Y_SPDMAG	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0346/05
F-0770	RWA_Y_SPDsgn	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0346/00
F-0781	RWA_Z_ID	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0347/01
F-0784	RWA_Z_PWRLIM	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0347/04
F-0783	RWA_Z_PWR_ST	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0347/03
F-0785	RWA_Z_SPDMAG	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0347/05
F-0780	RWA_Z_SPDsgn	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0347/00
F-0360	SAM_AZ_ANG	SAM'AZI'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0361	SAM_AZ_CMD	SAM'AZI'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0362	SAM_AZ_POS	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0363	SAM_AZ_TRG	SAM'AZI'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0365	SAM_BMTRX_0	MTRX'B'FROM'SAM(0)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0366	SAM_BMTRX_1	MTRX'B'FROM'SAM(1)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0367	SAM_BMTRX_2	MTRX'B'FROM'SAM(2)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0368	SAM_BMTRX_3	MTRX'B'FROM'SAM(3)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0369	SAM_BMTRX_4	MTRX'B'FROM'SAM(4)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0370	SAM_BMTRX_5	MTRX'B'FROM'SAM(5)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0371	SAM_BMTRX_6	MTRX'B'FROM'SAM(6)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0372	SAM_BMTRX_7	MTRX'B'FROM'SAM(7)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0373	SAM_BMTRX_8	MTRX'B'FROM'SAM(8)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0375	SAM_CNTRL_ST	SAM'CONTROL'STATUS	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0377	SAM_EL_ANG	SAMELE'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0378	SAM_EL_CMD	SAMELE'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0379	SAM_EL_POS	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0380	SAM_EL_TRG	SAMELETARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0381	SAM_NORM_X	SAM'NORMAL(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0382	SAM_NORM_Y	SAM'NORMAL(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0383	SAM_NORM_Z	SAM'NORMAL(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0385	SAM_STATS	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0385
F-0800	SAM_STATS_00	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0385/00
F-0801	SAM_STATS_01	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0385/01
F-0802	SAM_STATS_02	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0385/02
F-0803	SAM_STATS_03	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	3	F-0385/03
F-0805	SAM_STATS_05	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0385/05
F-0806	SAM_STATS_06	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0385/06
F-0807	SAM_STATS_07	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	2	7	F-0385/07
F-0809	SAM_STATS_09	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0385/09
F-0810	SAM_STATS_10	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0385/10
F-0811	SAM_STATS_11	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	11	F-0385/11
F-0813	SAM_STATS_13	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0385/13
F-0814	SAM_STATS_14	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0385/14
F-0815	SAM_STATS_15	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	1	15	F-0385/15
F-0388	SAM_TIMEOUT	SAMSIB'TIMEOUT	CYCEEXEC'CPL	AACS	STATUS	4	12	
F-0390	SAP_AZ_ANG	SAP'AZI'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0391	SAP_AZ_CMD	SAP'AZI'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0392	SAP_AZ_POS	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0393	SAP_AZ_TRG	SAP'AZI'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0395	SAP_BMTRX_0	MTRX'B'FROM'SAP(0)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0396	SAP_BMTRX_1	MTRX'B'FROM'SAP(1)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0397	SAP_BMTRX_2	MTRX'B'FROM'SAP(2)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0398	SAP_BMTRX_3	MTRX'B'FROM'SAP(3)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0399	SAP_BMTRX_4	MTRX'B'FROM'SAP(4)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0400	SAP_BMTRX_5	MTRX'B'FROM'SAP(5)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0401	SAP_BMTRX_6	MTRX'B'FROM'SAP(6)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0402	SAP_BMTRX_7	MTRX'B'FROM'SAP(7)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0403	SAP_BMTRX_8	MTRX'B'FROM'SAP(8)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0405	SAP_CNTRL_ST	SAP'CONTROL'STATUS	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0407	SAP_EL_ANG	SAP'ELE'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0408	SAP_EL_CMD	SAP'ELE'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0409	SAP_EL_POS	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0410	SAP_EL_TRG	SAP'ELETARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0411	SAP_NORM_X	SAP'NORMAL(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0412	SAP_NORM_Y	SAP'NORMAL(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0413	SAP_NORM_Z	SAP'NORMAL(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0415	SAP_STATS	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0415
F-0820	SAP_STATS_00	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0415/00
F-0821	SAP_STATS_01	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0415/01
F-0822	SAP_STATS_02	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0415/02
F-0823	SAP_STATS_03	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	3	F-0415/03
F-0825	SAP_STATS_05	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0415/05
F-0826	SAP_STATS_06	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0415/06
F-0827	SAP_STATS_07	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	2	7	F-0415/07
F-0829	SAP_STATS_09	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0415/09
F-0830	SAP_STATS_10	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0415/10
F-0831	SAP_STATS_11	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	11	F-0415/11
F-0833	SAP_STATS_13	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0415/13
F-0834	SAP_STATS_14	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0415/14
F-0835	SAP_STATS_15	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	1	15	F-0415/15
F-0418	SAP_TIMEOUT	SAP'SIB'TIMEOUT	CYCEEXECPL	AACS	STATUS	4	12	
F-1410	SCP_DATAFAUL	TLM'DATA'READ'FAULT'COUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1411	SCP_DUMPFAUL	TLM'DUMP'READ'FAULTCOUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1412	SCP_EMRTLMNO	EMERGENCY'TLM'VERSION	TELEMETRY'TABLES'PRESET	CDH	UNSIGNED	16	0	
F-1413	SCP_ENGTLMNO	ENGINEERING'TLM'VERSION	TELEMETRY'TABLES'PRESET	CDH	UNSIGNED	16	0	
F-1414	SCP_FRAME_ID	MINOR'FRAME'NUMBER	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-2121	SCSC_DAY_CT	SCSC'DAY'CNT	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2122	SCSC_NTE_CT	SCSC'NITE'CNT	POWER'MGMTCPL	PWR	UNSIGNED	16	0	
F-0606	SEARCH_AUTO	ATT'ENABS(6)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	6	F-0005/06
F-0420	SELT_BRATE_X	BODY'RATE(0)	SELTS'CPL	AACS	SIGNED	16	0	
F-0421	SELT_BRATE_Y	BODY'RATE(1)	SELTS'CPL	AACS	SIGNED	16	0	
F-0422	SELT_BRATE_Z	BODY'RATE(2)	SELTS'CPL	AACS	SIGNED	16	0	
F-0423	SELT_DYINV0	INV'INERTIA'DYADIC(0)	SELTS'PRESET	AACS	SIGNED	16	0	
F-0424	SELT_DYINV4	INV'INERTIA'DYADIC(4)	SELTS'PRESET	AACS	SIGNED	16	0	
F-0425	SELT_DYINV8	INV'INERTIA'DYADIC(8)	SELTS'PRESET	AACS	SIGNED	16	0	
F-0426	SELT_MHSATS	MHSAT'TEST'SET'ON	SELTS'PRESET	AACS	DIGITAL	16	0	
F-0427	SELT_PTCH_ER	SELTS'PITCH	SELTS'CPL	AACS	SIGNED	16	0	
F-0428	SELT_Q_A2B_1	QUAT'BFROMA(0)	SELTS'CPL	AACS	SIGNED	16	0	
F-0429	SELT_Q_A2B_2	QUAT'BFROMA(1)	SELTS'CPL	AACS	SIGNED	16	0	
F-0430	SELT_Q_A2B_3	QUAT'BFROMA(2)	SELTS'CPL	AACS	SIGNED	16	0	
F-0431	SELT_Q_R2B_1	QUAT'BFROMR(0)	SELTS'CPL	AACS	SIGNED	16	0	
F-0432	SELT_Q_R2B_2	QUAT'BFROMR(1)	SELTS'CPL	AACS	SIGNED	16	0	
F-0433	SELT_Q_R2B_3	QUAT'BFROMR(2)	SELTS'CPL	AACS	SIGNED	16	0	
F-0434	SELT_Q_R2B_4	QUAT'BFROMR(3)	SELTS'CPL	AACS	SIGNED	16	0	
F-0435	SELT_ROLL_ER	SELTS'ROLL	SELTS'CPL	AACS	SIGNED	16	0	
F-0436	SELT_YAW_ER	SELTS'YAW	SELTS'CPL	AACS	SIGNED	16	0	
F-1420	SMOEX_ENABL	SMOEXEC'ENABLES	SMOEXEC'PRESET	CDH	DIGITAL	16	0	
F-1421	SMOEX_PKD_ST	PACKED'SMOEXEC'STATE	SMOEXEC'CPL	CDH	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2123	SOLAR_DAY_CT	SOLA'DAY'CNT	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2124	SOLAR_NTE_CT	SOLA'NITE'CNT	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-0873	SSA_AUTO_DET	TELEM'NEW'SSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	3	13	F-0442/13
F-0870	SSA_CMD_DET	TELEM'NEW'SSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	3	10	F-0442/10
F-0438	SSA_DOT_PRD	SSA'VEC'DOTPRDCT	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0868	SSA_MODE_SEL	TELEM'NEW'SSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	1	8	F-0442/08
F-0611	SSA_MODE_SWI	ATT'ENABS(11)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	11	F-0005/11
F-0439	SSA_PSUN_DIR	PROPSUNDIR	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0442	SSA_RAW_DET	TELEM'NEW'SSA'STATUS	CYCEEXEC'CPL	AACS	DIGITAL	16	0	F-0442
F-0860	SSA_RAW_D_00	TELEM'NEW'SSA'STATUS	CYCEEXEC'CPL	AACS	UNSIGNED	8	0	F-0442/00
F-0440	SSA_RAW_RET	TELEM'RETICLE	CYCEEXEC'CPL	AACS	DIGITAL	16	0	F-0440
F-0840	SSA_RET_A_GC	TELEM'RETICLE	CYCEEXEC'CPL	AACS	UNSIGNED	8	0	F-0440/00
F-0848	SSA_RET_B_GC	TELEM'RETICLE	CYCEEXEC'CPL	AACS	UNSIGNED	8	8	F-0440/08
F-0444	SSA_STATUS	SSA'STATUS	AACS2'SSA'CPL	AACS	STATUS	4	12	
F-0446	SSA_SUNHDF_X	RAW'SUN'HEAD'FRAME(0)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0447	SSA_SUNHDF_Y	RAW'SUN'HEAD'FRAME(1)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0869	SSA_SUN_SEEN	TELEM'NEW'SSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	1	9	F-0442/09
F-0747	STAR_UPDATE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	7	F-0283/07
F-0448	STIME	STIME	STAREX'CPL	AACS	SIGNED	16	0	
F-0490	STRX_ATGAINX	S'ATT'GAIN(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0491	STRX_ATGAINY	S'ATT'GAIN(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0492	STRX_ATGAINZ	S'ATT'GAIN(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0495	STRX_BSGAINX	S'BIAS'GAIN(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0496	STRX_BSGAINY	S'BIAS'GAIN(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0497	STRX_BSGAINZ	S'BIAS'GAIN(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0550	STRX_CAI Sang	ANGLE'BP'FROM'L	STAREX'CPL	AACS	SIGNED	16	0	
F-0450	STRX_CMRESET	CUM'SISRESETCNT	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0551	STRX_CORTEST	CORR'TEST	STAREX'CPL	AACS	SIGNED	16	0	
F-0552	STRX_DOTLOS	STAR'DOT'LOS	STAREX'CPL	AACS	SIGNED	16	0	
F-0553	STRX_DOTPROD	STAR'DOT'PROD	STAREX'CPL	AACS	SIGNED	16	0	
F-0451	STRX_HIRATIO	HIGHEST'RATIO	STAREX'CPL	AACS	SIGNED	16	0	
F-0452	STRX_IDTRNNO	NUM'IDENT'TRANS	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0454	STRX_MAXBIN	MAXBIN	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0554	STRX_MB_CNTS	MAXBIN'COUNTS	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0455	STRX_MULSTAR	CONS'MULT'CAND	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0555	STRX_MVEC_X	MEAS'VEC(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0556	STRX_MVEC_Y	MEAS'VEC(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0557	STRX_MVEC_Z	MEAS'VEC(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0558	STRX_NB_CNTS	NEXBIN'COUNTS	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0456	STRX_NEXTBIN	NEXBIN	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0559	STRX_NOIZVAR	MEAS'NOISE'VAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0457	STRX_PULSECT	PULSE'SLIT'COUNT	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0560	STRX_SC_SLIT	SUCCESS'SLIT	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0458	STRX_SLIT_ID	SLIT'ID	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0459	STRX_STAR_ID	STAR'ID'NO	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0460	STRX_STATE	STAREX'STATE	STAREX'CPL	AACS	STATUS	4	12	
F-0461	STRX_S_RESET	SIS'RESET'COUNT	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0561	STRX_TRANSTS	TRANSITS'PER'SEC	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0462	STRX_UNIDSTR	CONS'UNID'TRANS	STAREX'CPL	AACS	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0463	STRX_VALTRNS	NUM'VALIDTRANS	STAREXCPL	AACS	UNSIGNED	16	0	
F-0464	STRX_WORD	STAREXSTATUS	STAREXCPL	AACS	DIGITAL	16	0	
F-0470	SUNVEC_RAW_X	RAW'SUN'VECTOR(0)	AACSB10'CPL	AACS	SIGNED	16	0	
F-0471	SUNVEC_RAW_Y	RAW'SUN'VECTOR(1)	AACSB10'CPL	AACS	SIGNED	16	0	
F-0472	SUNVEC_RAW_Z	RAW'SUN'VECTOR(2)	AACSB10'CPL	AACS	SIGNED	16	0	
F-0603	SUN_AVOID	ATT'ENABS(3)	AACSB2'GLOBAL'PRESET	AACS	STATUS	1	3	F-0005/03
F-0475	SUN_CLOCK	SUNCLOCKANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0753	SUN_DIF_EPH	PACKED'ATT'STATUS	AACSB2'GLOBAL'CPL	AACS	STATUS	1	13	F-0283/13
F-0746	SUN_FILTER	PACKED'ATT'STATUS	AACSB2'GLOBAL'CPL	AACS	STATUS	1	6	F-0283/06
F-0743	SUN_MON_CHK	PACKED'ATT'STATUS	AACSB2'GLOBAL'CPL	AACS	STATUS	1	3	F-0283/03
F-0601	SUN_MON_EPH	ATT'ENABS(1)	AACSB2'GLOBAL'PRESET	AACS	STATUS	1	1	F-0005/01
F-0752	SUN_MON_LIM	PACKED'ATT'STATUS	AACSB2'GLOBAL'CPL	AACS	STATUS	1	12	F-0283/12
F-0602	SUN_MON_THR	ATT'ENABS(2)	AACSB2'GLOBAL'PRESET	AACS	STATUS	1	2	F-0005/02
F-0749	SUN_ON_ARRAY	PACKED'ATT'STATUS	AACSB2'GLOBAL'CPL	AACS	STATUS	1	9	F-0283/09
F-0476	SUN_SUBMODE	SUNCONTROL'SUBMODE	AACSB2'SUN'CNTRL'CPL	AACS	STATUS	4	12	
F-0477	SUN_SUBM_SM	SUNCONTROL'SUBMODE	SM'AACSB2'CPL	AACS	STATUS	4	12	
F-0480	SYST_MOM_X	SYSMOM	AACSB2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0481	SYST_MOM_Y	SYSMOM	AACSB2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0482	SYST_MOM_Z	SYSMOM	AACSB2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0493	S_ATT_PROD_0	S'ATT'PROD(0)		AACS	SIGNED	16	0	
F-0498	S_BIAS_PROD0	S'BIAS'PROD(0)		AACS	SIGNED	16	0	
F-1430	TC_ACTV_SCRP	ACTIVE'SCRIPT'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1431	TC_CMD_TIME	COMMANDTIME	TIMEDCMD'CPL	CDH	UNSIGNED	32	0	
F-1432	TC_DISCRETES	TIMEDCMD'DISCRETES	TIMEDCMD'PRESET	CDH	DIGITAL	16	0	
F-1433	TC_HEAD_ACTV	ACTIVE'LISTHEAD	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1434	TC_INVLPLMS	INVALID'PULSTERM'MSG'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1435	TC_MAXACTSCR	MAX'ACTIVE'SCRIPTS	TIMEDCMD'PRESET	CDH	UNSIGNED	16	0	
F-1436	TC_MAX_ADDR	MAX'SCRIPT'ADDRESS	TIMEDCMD'CPL	CDH	DIGITAL	16	0	
F-1437	TC_NCTOFFS	NON'CONTROL'TIME'OFFSET	TIMEDCMD'PRESET	CDH	UNSIGNED	16	0	
F-1438	TC_PDS_CMDEX	STORED'PDS'CMD'EXECUTED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1439	TC_PD_ISINIT	PULSE'DISCRETES'INITIATED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1440	TC_PD_ISTERM	PULSE'DISCRETE'TERMINATED'COUN	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1441	TC_SBUS_EXCT	STORED'BUS'CMD'EXECUTED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1442	TC_SBUS_RJCT	STORED'BUS'CMD'REJECTED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1443	TC_SCMD_DATA	STRD'CMD'DATA	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1444	TC_SCMD_OPCODE	STRD'CMD'OPCODE	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1445	TC_SCMD_SORS	STRD'CMD'SOURCE	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1446	TC_SCRIPT_ADR	SCRIPTBUFFER'ADDRESS	TIMEDCMD'PRESET	CDH	DIGITAL	16	0	
F-1447	TC_SCRIPT_SIZ	SCRIPTBUFFER'SIZE	TIMEDCMD'PRESET	CDH	UNSIGNED	16	0	
F-1448	TC_UNXMSGTCT	TIMEDCMD'UNEXPECTED'MSGTYPE'CO	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-3207	TD1_BEAM_UP	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	7	F-3040/07
F-3210	TD1_MOToutOK	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	10	F-3040/10
F-3209	TD1_MOT_CHKD	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	9	F-3040/09
F-3204	TD1_MOT_EXC	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	4	F-3040/04
F-3213	TD1_PDSnotOK	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	13	F-3040/13
F-3205	TD1_RPA_BEAM	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	5	F-3040/05
F-3211	TD1_RPA_CHKD	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	11	F-3040/11
F-3201	TD1_SEL_MOT	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	1	F-3040/01
F-3202	TD1_SEL_RPA	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	2	F-3040/02

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-3203	TD1_SEL_XSU	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	3	F-3040/03
F-3214	TD1_SPARE14	TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	14	F-3040/14
F-3215	TD1_SPARE15	TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	15	F-3040/15
F-3206	TD1_TLCM_CMD	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	6	F-3040/06
F-3208	TD1_TLCM_SUB	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	8	F-3040/08
F-3200	TD1_UPL_ANT	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	0	F-3040/00
F-3212	TD1_USO_ENAB	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	12	F-3040/12
F-3230	TD2_BEAMcmON	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	10	F-3042/10
F-3223	TD2_DNL_ANT	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	2	3	F-3042/03
F-3221	TD2_PWR_MGMT	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	1	F-3042/01
F-3225	TD2_RPA1_H_I	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	5	F-3042/05
F-3226	TD2_RPA2_H_I	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	6	F-3042/06
F-3232	TD2_SPARE12	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	12	F-3042/12
F-3233	TD2_SPARE13	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	13	F-3042/13
F-3234	TD2_SPARE14	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	14	F-3042/14
F-3235	TD2_SPARE15	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	15	F-3042/15
F-3229	TD2_TRNoFIL	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	9	F-3042/09
F-3231	TD2_TRNonFIL	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	11	F-3042/11
F-3227	TD2_TWTA1sHV	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	7	F-3042/07
F-3228	TD2_TWTA2sHV	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	8	F-3042/08
F-3222	TD2_TWTApnEN	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	2	F-3042/02
F-3220	TD2_TWTA_ST	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	0	F-3042/00
F-3248	TDP_MOTequST	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	8	F-3046/08
F-3241	TDP_MOTexcTL	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	1	F-3046/01
F-3240	TDP_MOTrcvTL	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	0	F-3046/00
F-3243	TDP_PDS_TLM	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	3	F-3046/03
F-3252	TDP_RFinSW_S	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	12	F-3046/12
F-3244	TDP_RFinSW_T	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	4	F-3046/04
F-3254	TDP_RFouSW_S	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	14	F-3046/14
F-3245	TDP_RFouSW_T	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	5	F-3046/05
F-3250	TDP_RPAequST	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	10	F-3046/10
F-3242	TDP_RPA_TLM	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	2	F-3046/02
F-3246	TDP_SPARE06	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	UNSIGNED	1	6	F-3046/06
F-3247	TDP_SPARE07	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	UNSIGNED	1	7	F-3046/07
F-0521	THrOnT_01	TOTAL'THR'TIME(1)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0522	THrOnT_02	TOTAL'THR'TIME(2)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0523	THrOnT_03	TOTAL'THR'TIME(3)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0524	THrOnT_04	TOTAL'THR'TIME(4)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0525	THrOnT_05	TOTAL'THR'TIME(5)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0526	THrOnT_06	TOTAL'THR'TIME(6)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0527	THrOnT_07	TOTAL'THR'TIME(7)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0528	THrOnT_08	TOTAL'THR'TIME(8)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0529	THrOnT_09	TOTAL'THR'TIME(9)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0530	THrOnT_10	TOTAL'THR'TIME(10)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0531	THrOnT_11	TOTAL'THR'TIME(11)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0532	THrOnT_12	TOTAL'THR'TIME(12)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0535	THrOnT_ME	TOTAL'THR'TIME(0)	MANUVR'THRTIM'CPL	AACS	FLOAT	32	0	
F-0514	THR_SM_01_02	TLM'ACCUM(1)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0515	THR_SM_03_04	TLM'ACCUM(3)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0516	THR_SM_05_06	TLM'ACCUM(5)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0517	THR_SM_07_08	TLM'ACCUM(7)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0518	THR_SM_09_11	TLM'ACCUM(9)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0519	THR_SM_12_10	TLM'ACCUM(11)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-3040	TLCM_DSW1	TELECOM'DISCRETES	TELECOM'CPL	TLCM	DIGITAL	16	0	F-3040
F-3042	TLCM_DSW2	MORE'TELECOM'DISCRETES	TELECOM'CPL	TLCM	DIGITAL	16	0	F-3042
F-3044	TLCM_MODE	TELECOM'MODE	TELECOM'CPL	TLCM	STATUS	3	13	
F-3046	TLCM_PARM	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	DIGITAL	16	0	F-3046
F-3050	TLCM_SEQ_TD	TELECOM'CMD'SEQ'TIME'DELAY	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-3051	TLCM_SUBCOM1	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3052	TLCM_SUBCOM2	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3053	TLCM_SUBCOM3	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3054	TLCM_SUBCOM4	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3055	TLCM_SUBCOM5	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-0892	UNLSEQ_STATE	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	STATUS	4	12	F-0277/12
F-3060	UPLK_TIMEOUT	UPLINK'TIMEOUT	TELECOM'INIT	TLCM	UNSIGNED	16	0	
F-1773	UPLS_BUF_RDY	UPLINK'STATUS(13)	UPLINK'CPL	CDH	STATUS	1	13	F-1465/13
F-1760	UPLS_CIUCARM	UPLINK'STATUS(0)	UPLINK'CPL	CDH	STATUS	1	0	F-1465/00
F-1762	UPLS_CIUCEXE	UPLINK'STATUS(2)	UPLINK'CPL	CDH	STATUS	1	2	F-1465/02
F-1761	UPLS_CIUCREJ	UPLINK'STATUS(1)	UPLINK'CPL	CDH	STATUS	1	1	F-1465/01
F-1767	UPLS_DATA_FR	UPLINK'STATUS(7)	UPLINK'CPL	CDH	STATUS	1	7	F-1465/07
F-1763	UPLS_DBLE_ERR	UPLINK'STATUS(3)	UPLINK'CPL	CDH	STATUS	1	3	F-1465/03
F-1765	UPLS_DSTCODE	UPLINK'STATUS(5)	UPLINK'CPL	CDH	STATUS	2	5	F-1465/05
F-1775	UPLS_PICK_A	UPLINK'STATUS(15)	UPLINK'CPL	CDH	STATUS	1	15	F-1465/15
F-1774	UPLS_PICK_B	UPLINK'STATUS(14)	UPLINK'CPL	CDH	STATUS	1	14	F-1465/14
F-1764	UPLS_SNG_ERR	UPLINK'STATUS(4)	UPLINK'CPL	CDH	STATUS	1	4	F-1465/04
F-1768	UPLS_SPARE08	UPLINK'STATUS(8)	UPLINK'CPL	CDH	STATUS	1	8	F-1465/08
F-1769	UPLS_SPARE09	UPLINK'STATUS(9)	UPLINK'CPL	CDH	STATUS	1	9	F-1465/09
F-1770	UPLS_SPARE10	UPLINK'STATUS(10)	UPLINK'CPL	CDH	STATUS	1	10	F-1465/10
F-1771	UPLS_SPARE11	UPLINK'STATUS(11)	UPLINK'CPL	CDH	STATUS	1	11	F-1465/11
F-1772	UPLS_SPARE12	UPLINK'STATUS(12)	UPLINK'CPL	CDH	STATUS	1	12	F-1465/12
F-1450	UPL_CIUARMCT	CIU'COMMAND'ARMED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1451	UPL_CIUEXCNT	CIUCOMMAND'EXECUTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1452	UPL_CIUREJECT	CIU'COMMAND'REJECTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1453	UPL_CMDEXTIM	UPLINK'COMMAND'EXECUTIONTIME	UPLINK'CPL	CDH	UNSIGNED	32	0	
F-1454	UPL_CMDSEQNO	COMMAND'SEQUENCE'NUMBER	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1455	UPL_CRCERRCT	CRCERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1456	UPL_DOUBERCT	DOUBLE'ERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1457	UPL_FMTERRCT	FORMATERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1458	UPL_INTRPTCT	UPLINK'INTERRUPTCOUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1459	UPL_RECVDCNT	FRAMES'RECEIVED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1460	UPL_SCPEXCNT	SCPCOMMAND'EXECUTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1461	UPL_SCPPREJCT	SCPCOMMAND'REJECTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1462	UPL_SEQERRQCT	SEQUENCE'ERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1463	UPL_SINGERCT	SINGLE'ERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1465	UPL_STATUS	UPLINK'STATUS	UPLINK'CPL	CDH	DIGITAL	16	0	F-1465
F-1464	UPL_UNXMSGCT	UNEXPECTED'MSG'TYPE'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-2155	VERIFY_STAT	VERIFY'STATUS	POWER'MGMT'CPL	PWR	DIGITAL	16	0	F-2155
F-2260	VS00_B1_VT	VERIFY'STAT(0)	POWER'MGMT'CPL	PWR	STATUS	1	0	F-2155/00

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2261	VS01_B2_VT	VERIFY'STAT(1)	POWER'MGMT'CPL	PWR	STATUS	1	1	F-2155/01
F-2262	VS02_B1B2_VT	VERIFY'STAT(2)	POWER'MGMT'CPL	PWR	STATUS	1	2	F-2155/02
F-2263	VS03_B1_CR	VERIFY'STAT(3)	POWER'MGMT'CPL	PWR	STATUS	1	3	F-2155/03
F-2264	VS04_B2_CR	VERIFY'STAT(4)	POWER'MGMT'CPL	PWR	STATUS	1	4	F-2155/04
F-2265	VS05_B1B2_CR	VERIFY'STAT(5)	POWER'MGMT'CPL	PWR	STATUS	1	5	F-2155/05
F-2266	VS06_MC_BVR	VERIFY'STAT(6)	POWER'MGMT'CPL	PWR	STATUS	1	6	F-2155/06
F-2267	VS07_CHGPATH	VERIFY'STAT(7)	POWER'MGMT'CPL	PWR	STATUS	1	7	F-2155/07
F-2268	VS08_B1_VT	VERIFY'STAT(8)	POWER'MGMT'CPL	PWR	STATUS	1	8	F-2155/08
F-2269	VS09_B2_VT	VERIFY'STAT(9)	POWER'MGMT'CPL	PWR	STATUS	1	9	F-2155/09
F-2270	VS10_B1B2_VT	VERIFY'STAT(10)	POWER'MGMT'CPL	PWR	STATUS	1	10	F-2155/10
F-2271	VS11_B1_CR	VERIFY'STAT(11)	POWER'MGMT'CPL	PWR	STATUS	1	11	F-2155/11
F-2272	VS12_B2_CR	VERIFY'STAT(12)	POWER'MGMT'CPL	PWR	STATUS	1	12	F-2155/12
F-2273	VS13_B1B2_CR	VERIFY'STAT(13)	POWER'MGMT'CPL	PWR	STATUS	1	13	F-2155/13
F-2274	VS14_MC_BVR	VERIFY'STAT(14)	POWER'MGMT'CPL	PWR	STATUS	1	14	F-2155/14
F-2275	VS15_CHGPATH	VERIFY'STAT(15)	POWER'MGMT'CPL	PWR	STATUS	1	15	F-2155/15
F-3100	XSU_CMD_WORD	XSUCMDWORD	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-2575	XSU_MSG_ENAB	XSUMSG'ENABLE	THERMAL'CPL	THRML	DIGITAL	16	0	
F-3101	XSU_Q_COUNT	XSU'QUE'COUNT	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-3102	XSU_Q_FULL	XSU'QUE'FULL'COUNT	TELECOM'CPL	TLCM	UNSIGNED	16	0	

Appendix D3

SCP Telemetry Index (By Flight Software Name)

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Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1433	TC_HEAD_ACTV	ACTIVE'LIST'HEAD	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1430	TC_ACTV_SCRIPT	ACTIVE'SCRIPT'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-0550	STRX_CAISSANG	ANGLE'BP'FROM'L	STAREX'CPL	AACS	SIGNED	16	0	
F-0005	ATT_ENABLES	ATT'ENABS	AACS2'GLOBAL'PRESET	AACS	DIGITAL	16	0	F-0005
F-0600	BU_MODE_ENA	ATT'ENABS(0)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	0	F-0005/00
F-0601	SUN_MON_EPH	ATT'ENABS(1)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	1	F-0005/01
F-0610	CSAbu_HAS_BU	ATT'ENABS(10)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	10	F-0005/10
F-0611	SSA_MODE_SWI	ATT'ENABS(11)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	11	F-0005/11
F-0612	ATT_ENAB_12	ATT'ENABS(12)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	12	F-0005/12
F-0613	ATT_ENAB_13	ATT'ENABS(13)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	13	F-0005/13
F-0614	ATT_ENAB_14	ATT'ENABS(14)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	14	F-0005/14
F-0615	ATT_ENAB_15	ATT'ENABS(15)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	15	F-0005/15
F-0602	SUN_MON_THR	ATT'ENABS(2)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	2	F-0005/02
F-0603	SUN_AVOID	ATT'ENABS(3)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	3	F-0005/03
F-0604	RWA_PID_INT	ATT'ENABS(4)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	4	F-0005/04
F-0605	ANS_AUTO_ENA	ATT'ENABS(5)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	5	F-0005/05
F-0606	SEARCH_AUTO	ATT'ENABS(6)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	6	F-0005/06
F-0607	MAP_EPHEM	ATT'ENABS(7)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	7	F-0005/07
F-0608	CHK_NEW_EPH	ATT'ENABS(8)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	8	F-0005/08
F-0609	MHSA_DER_ATT	ATT'ENABS(9)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	9	F-0005/09
F-0000	AACS_STATE	ATTITUDE'CNTRL'STATE	AACS2'GLOBAL'CPL	AACS	STATUS	4	12	
F-1000	AUDIT_Q_CNT	AUDITQUE'DEScriptor	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1001	AUDIT_Q_LOST	AUDITQUE'DEScriptor	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1002	AUDIT_Q_W1	AUDITQUE'MSG'TYPE	AUDITQUE'CPL	CDH	UNSIGNED	16	0	
F-1003	AUDIT_Q_W2-3	AUDITQUE'TIMETAG	AUDITQUE'CPL	CDH	UNSIGNED	32	0	
F-1171	RDM_AUTENSCP	AUTOSCP'SWITCH'ENABLE	REDMAN'CPL	CDH	STATUS	4	12	
F-1008	AUTOENAB_1	AUTONOMOUS'ENABLE	REDMAN'CPL	CDH	DIGITAL	16	0	F-1008
F-1009	AUTOENAB_2	AUTONOMOUS'ENABLE	REDMAN'CPL	CDH	DIGITAL	16	0	F-1009
F-1500	AUTOEN1_BUS	AUTONOMOUS'ENABLE(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1008/00
F-1660	AUTOEN2_MHSA	AUTONOMOUS'ENABLE(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1009/00
F-1501	AUTOEN1_CLK	AUTONOMOUS'ENABLE(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1008/01
F-1661	AUTOEN2_CSA	AUTONOMOUS'ENABLE(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1009/01
F-1510	AUTOEN1_MOT	AUTONOMOUS'ENABLE(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1008/10
F-1670	AUTOEN2_SP10	AUTONOMOUS'ENABLE(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1009/10
F-1511	AUTOEN1_PSE	AUTONOMOUS'ENABLE(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1008/11
F-1671	AUTOEN2_SP11	AUTONOMOUS'ENABLE(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1009/11
F-1512	AUTOEN1_SAP	AUTONOMOUS'ENABLE(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1008/12
F-1672	AUTOEN2_SP12	AUTONOMOUS'ENABLE(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1009/12
F-1513	AUTOEN1_HGA	AUTONOMOUS'ENABLE(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1008/13
F-1673	AUTOEN2_SP13	AUTONOMOUS'ENABLE(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1009/13
F-1514	AUTOEN1_SAM	AUTONOMOUS'ENABLE(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1008/14
F-1674	AUTOEN2_SP14	AUTONOMOUS'ENABLE(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1009/14
F-1515	AUTOEN1_ATT	AUTONOMOUS'ENABLE(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1008/15
F-1675	AUTOEN2_SP15	AUTONOMOUS'ENABLE(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1009/15
F-1502	AUTOEN1_SSA	AUTONOMOUS'ENABLE(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1008/02
F-1662	AUTOEN2_TANK	AUTONOMOUS'ENABLE(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1009/02
F-1503	AUTOEN1_RWA	AUTONOMOUS'ENABLE(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1008/03
F-1663	AUTOEN2_REA	AUTONOMOUS'ENABLE(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1009/03
F-1504	AUTOEN1_IMU	AUTONOMOUS'ENABLE(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1008/04

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1664	AUTOEN2_SP04	AUTONOMOUS'ENABLE(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1009/04
F-1505	AUTOEN1_GYR	AUTONOMOUS'ENABLE(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1008/05
F-1665	AUTOEN2_SP05	AUTONOMOUS'ENABLE(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1009/05
F-1506	AUTOEN1_DTC	AUTONOMOUS'ENABLE(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1008/06
F-1666	AUTOEN2_SP06	AUTONOMOUS'ENABLE(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1009/06
F-1507	AUTOEN1_EDF	AUTONOMOUS'ENABLE(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1008/07
F-1667	AUTOEN2_SP07	AUTONOMOUS'ENABLE(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1009/07
F-1508	AUTOEN1_XSU	AUTONOMOUS'ENABLE(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1008/08
F-1668	AUTOEN2_SP08	AUTONOMOUS'ENABLE(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1009/08
F-1509	AUTOEN1_TWT	AUTONOMOUS'ENABLE(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1008/09
F-1669	AUTOEN2_SP09	AUTONOMOUS'ENABLE(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1009/09
F-2013	BAT1_TMP_AVE	AVRG'TEMP(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2063	BAT2_TMP_AVE	AVRG'TEMP(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-0170	GYbiasCOR_X	B'GYRO'BIAS'CORR(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0171	GYbiasCOR_Y	B'GYRO'BIAS'CORR(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0172	GYbiasCOR_Z	B'GYRO'BIAS'CORR(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-2020	BAT1_BD_I_CT	BAD'CURR'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2070	BAT2_BD_I_CT	BAD'CURR'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2500	BSC_EM-X_T1	BAD'SUBCOM'CNTRS(0)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2501	BSC_EM+X_T1	BAD'SUBCOM'CNTRS(1)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2510	BSC_THR_CL4T	BAD'SUBCOM'CNTRS(10)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2511	BSC_NTOtnkT1	BAD'SUBCOM'CNTRS(11)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2512	BSC_NTOtnkT2	BAD'SUBCOM'CNTRS(12)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2513	BSC_HYtnk1T1	BAD'SUBCOM'CNTRS(13)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2514	BSC_HYtnk1T2	BAD'SUBCOM'CNTRS(14)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2515	BSC_HYtnk2T1	BAD'SUBCOM'CNTRS(15)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2516	BSC_HYtnk2T2	BAD'SUBCOM'CNTRS(16)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2517	BSC_PRCNT1_T	BAD'SUBCOM'CNTRS(17)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2518	BSC_PRCNT2_T	BAD'SUBCOM'CNTRS(18)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2519	BSC_SUPVC3_T	BAD'SUBCOM'CNTRS(19)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2502	BSC_EM+Y_T1	BAD'SUBCOM'CNTRS(2)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2520	BSC_SUPVC4_T	BAD'SUBCOM'CNTRS(20)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2521	BSC_SUPVC1_T	BAD'SUBCOM'CNTRS(21)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2522	BSC_SUPVC2_T	BAD'SUBCOM'CNTRS(22)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2523	BSC_TWtencIT	BAD'SUBCOM'CNTRS(23)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2524	BSC_HGAgim1T	BAD'SUBCOM'CNTRS(24)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2525	BSC_HGAgim2T	BAD'SUBCOM'CNTRS(25)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2526	BSC_SA-Ygm1T	BAD'SUBCOM'CNTRS(26)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2527	BSC_SA-Ygm2T	BAD'SUBCOM'CNTRS(27)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2528	BSC_SA+Ygm1T	BAD'SUBCOM'CNTRS(28)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2529	BSC_SA+Ygm2T	BAD'SUBCOM'CNTRS(29)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2503	BSC_BAT1_T1	BAD'SUBCOM'CNTRS(3)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2530	BSC_ME_VLVT1	BAD'SUBCOM'CNTRS(30)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2531	BSC_MHSA_H_T	BAD'SUBCOM'CNTRS(31)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2532	BSC_CSA_T	BAD'SUBCOM'CNTRS(32)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2533	BSC_XSU_T	BAD'SUBCOM'CNTRS(33)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2534	BSC_IMU_BLKT	BAD'SUBCOM'CNTRS(34)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2504	BSC_BAT1_T2	BAD'SUBCOM'CNTRS(4)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2505	BSC_BAT2_T1	BAD'SUBCOM'CNTRS(5)	THERMAL'CPL	THRM	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2506	BSC_BAT2_T2	BAD'SUBCOM'CNTRS(6)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2507	BSC_THR_CL1T	BAD'SUBCOM'CNTRS(7)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2508	BSC_THR_CL2T	BAD'SUBCOM'CNTRS(8)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2509	BSC_THR_CL3T	BAD'SUBCOM'CNTRS(9)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-0057	CT_SUN_BADCK	BAD'SUN'CHECK'COUNT	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-2021	BAT1_BD_T_CT	BAD'TEMP'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2071	BAT2_BD_T_CT	BAD'TEMP'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2001	BAT1_ASOC	BATT'ASOC(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2051	BAT2_ASOC	BATT'ASOC(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2002	BAT1_TSOC	BATT'TSOC(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2052	BAT2_TSOC	BATT'TSOC(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2025	BAT1_DAY_CT	BCUR'DAY'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2075	BAT2_DAY_CT	BCUR'DAY'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2026	BAT1_NTE_CT	BCUR'NITE'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2076	BAT2_NTE_CT	BCUR'NITE'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-0006	BIAS_CNVG_X	BIAS'STATUS	STAREX'CPL	AACS	DIGITAL	16	0	
F-0007	BIAS_CNVG_Y	BIAS'STATUS	STAREX'CPL	AACS	DIGITAL	16	0	
F-0008	BIAS_CNVG_Z	BIAS'STATUS	STAREX'CPL	AACS	DIGITAL	16	0	
F-0420	SELT_BRATE_X	BODY'RATE(0)	SELTS'CPL	AACS	SIGNED	16	0	
F-0421	SELT_BRATE_Y	BODY'RATE(1)	SELTS'CPL	AACS	SIGNED	16	0	
F-0422	SELT_BRATE_Z	BODY'RATE(2)	SELTS'CPL	AACS	SIGNED	16	0	
F-1110	POBimgCIU138	BUFFER'IMAGE(1)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1138	POBimgCIX258	BUFFER'IMAGE(10)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1139	POBimgCIX270	BUFFER'IMAGE(11)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1140	POBimgCIX286	BUFFER'IMAGE(12)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1141	POBimgCIX28A	BUFFER'IMAGE(13)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1142	POBimgCIX28C	BUFFER'IMAGE(14)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1143	POBimgCIX2A4	BUFFER'IMAGE(15)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1144	POBimgCIX2A8	BUFFER'IMAGE(16)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1145	POBimgCIX2C2	BUFFER'IMAGE(17)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1146	POBimgCIX2C4	BUFFER'IMAGE(18)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1147	POBimgCIX2C8	BUFFER'IMAGE(19)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1130	POBimgCIX138	BUFFER'IMAGE(2)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1148	POBimgCIXA06	BUFFER'IMAGE(20)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1149	POBimgCIXA0A	BUFFER'IMAGE(21)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1150	POBimgCIXA0C	BUFFER'IMAGE(22)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1151	POBimgCIXA14	BUFFER'IMAGE(23)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1152	POBimgCIXA18	BUFFER'IMAGE(24)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1153	POBimgCIXA22	BUFFER'IMAGE(25)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1154	POBimgCIXA24	BUFFER'IMAGE(26)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1155	POBimgCIXA28	BUFFER'IMAGE(27)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1156	POBimgCIXA42	BUFFER'IMAGE(28)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1157	POBimgCIXA44	BUFFER'IMAGE(29)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1131	POBimgCIX20E	BUFFER'IMAGE(3)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1158	POBimgCIXA48	BUFFER'IMAGE(30)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1159	POBimgCIXA60	BUFFER'IMAGE(31)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1160	POBimgCIXA82	BUFFER'IMAGE(32)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1161	POBimgCIXA84	BUFFER'IMAGE(33)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1162	POBimgCIXA88	BUFFER'IMAGE(34)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1163	POBimgCIXA90	BUFFER'IMAGE(35)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1111	POBimgCIU21A	BUFFER'IMAGE(36)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1112	POBimgCIU22A	BUFFER'IMAGE(37)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1113	POBimgCIU232	BUFFER'IMAGE(38)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1114	POBimgCIU234	BUFFER'IMAGE(39)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1132	POBimgCIX216	BUFFER'IMAGE(4)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1115	POBimgCIU246	BUFFER'IMAGE(40)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1116	POBimgCIU24A	BUFFER'IMAGE(41)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1117	POBimgCIU262	BUFFER'IMAGE(42)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1118	POBimgCIU292	BUFFER'IMAGE(43)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1119	POBimgCIU294	BUFFER'IMAGE(44)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1120	POBimgCIU298	BUFFER'IMAGE(45)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1121	POBimgCIU2A2	BUFFER'IMAGE(46)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1122	POBimgCIUA12	BUFFER'IMAGE(47)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1123	POBimgCIUAA0	BUFFER'IMAGE(48)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1124	POBimgCIUAC0	BUFFER'IMAGE(49)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1133	POBimgCIX21C	BUFFER'IMAGE(5)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1134	POBimgCIX22C	BUFFER'IMAGE(6)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1135	POBimgCIX232	BUFFER'IMAGE(7)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1136	POBimgCIX24C	BUFFER'IMAGE(8)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1137	POBimgCIX254	BUFFER'IMAGE(9)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-0003	ACC_BIAS_+Z	CAL'ACC'BIAS(0)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0001	ACC_BIAS_-X	CAL'ACC'BIAS(1)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0002	ACC_BIAS_-Y	CAL'ACC'BIAS(2)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0004	ACC_BIAS_+S	CAL'ACC'BIAS(3)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-2003	BAT1_CDRATIO	CD'RATIO(0)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2053	BAT2_CDRATIO	CD'RATIO(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2007	BAT1_CHG_I	CHRG'CURR(0)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2057	BAT2_CHG_I	CHRG'CURR(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-1096	M_PHASE_BUFF	CIU'CHECK'INPUT	CYCEEXEC'CPL	CDH	DIGITAL	16	0	F-1096
F-1450	UPL_CIUARMCT	CIU'COMMAND'ARMED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1451	UPL_CIUEXCNT	CIU'COMMAND'EXECUTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1452	UPL_CIUREJECT	CIU'COMMAND'REJECTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1024	CIU_FLAGS	CIU'FLAG'WORD	CYCEEXEC'CPL	CDH	DIGITAL	16	0	F-1024
F-1520	CIUFL_2Hz	CIU'FLAG'WORD(0)	CYCEEXEC'CPL	CDH	STATUS	1	0	F-1024/00
F-1521	CIUFL_SSA1	CIU'FLAG'WORD(1)	CYCEEXEC'CPL	CDH	STATUS	1	1	F-1024/01
F-1530	CIUFL_MEok	CIU'FLAG'WORD(10)	CYCEEXEC'CPL	CDH	STATUS	1	10	F-1024/10
F-1531	CIUFL_HEok	CIU'FLAG'WORD(11)	CYCEEXEC'CPL	CDH	STATUS	1	11	F-1024/11
F-1532	CIUFL_BUSSel	CIU'FLAG'WORD(12)	CYCEEXEC'CPL	CDH	STATUS	1	12	F-1024/12
F-1533	CIUFL_CNTmod	CIU'FLAG'WORD(13)	CYCEEXEC'CPL	CDH	STATUS	1	13	F-1024/13
F-1534	CIUFL_MARSIC	CIU'FLAG'WORD(14)	CYCEEXEC'CPL	CDH	STATUS	1	14	F-1024/14
F-1535	CIUFL_DESR_B	CIU'FLAG'WORD(15)	CYCEEXEC'CPL	CDH	STATUS	1	15	F-1024/15
F-1522	CIUFL_SSA2	CIU'FLAG'WORD(2)	CYCEEXEC'CPL	CDH	STATUS	1	2	F-1024/02
F-1523	CIUFL_QTHz	CIU'FLAG'WORD(3)	CYCEEXEC'CPL	CDH	STATUS	1	3	F-1024/03
F-1524	CIUFL_HEcntl	CIU'FLAG'WORD(4)	CYCEEXEC'CPL	CDH	STATUS	1	4	F-1024/04
F-1525	CIUFL_IO_X	CIU'FLAG'WORD(5)	CYCEEXEC'CPL	CDH	STATUS	1	5	F-1024/05
F-1526	CIUFL_EDF1ok	CIU'FLAG'WORD(6)	CYCEEXEC'CPL	CDH	STATUS	1	6	F-1024/06
F-1527	CIUFL_EDF2ok	CIU'FLAG'WORD(7)	CYCEEXEC'CPL	CDH	STATUS	1	7	F-1024/07
F-1528	CIUFL_MEcntl	CIU'FLAG'WORD(8)	CYCEEXEC'CPL	CDH	STATUS	1	8	F-1024/08

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1529	CIUFL_MHSA1P	CIU'FLAG'WORD(9)	CYCEEXEC'CPL	CDH	STATUS	1	9	F-1024/09
F-1026	CIX_FLAGS	CIX'FLAG'WORD	CYCEEXEC'CPL	CDH	DIGITAL	16	0	F-1026
F-1540	CIXFL_ECHO0	CIX'FLAG'WORD(0)	CYCEEXEC'CPL	CDH	STATUS	1	0	F-1026/00
F-1541	CIXFL_01	CIX'FLAG'WORD(1)	CYCEEXEC'CPL	CDH	STATUS	1	1	F-1026/01
F-1550	CIXFL_10	CIX'FLAG'WORD(10)	CYCEEXEC'CPL	CDH	STATUS	1	10	F-1026/10
F-1551	CIXFL_11	CIX'FLAG'WORD(11)	CYCEEXEC'CPL	CDH	STATUS	1	11	F-1026/11
F-1552	CIXFL_BUSSel	CIX'FLAG'WORD(12)	CYCEEXEC'CPL	CDH	STATUS	1	12	F-1026/12
F-1553	CIXFL_13	CIX'FLAG'WORD(13)	CYCEEXEC'CPL	CDH	STATUS	1	13	F-1026/13
F-1554	CIXFL_14	CIX'FLAG'WORD(14)	CYCEEXEC'CPL	CDH	STATUS	1	14	F-1026/14
F-1555	CIXFL_DESR_B	CIX'FLAG'WORD(15)	CYCEEXEC'CPL	CDH	STATUS	1	15	F-1026/15
F-1542	CIXFL_02	CIX'FLAG'WORD(2)	CYCEEXEC'CPL	CDH	STATUS	1	2	F-1026/02
F-1543	CIXFL_03	CIX'FLAG'WORD(3)	CYCEEXEC'CPL	CDH	STATUS	1	3	F-1026/03
F-1544	CIXFL_HEcntl	CIX'FLAG'WORD(4)	CYCEEXEC'CPL	CDH	STATUS	1	4	F-1026/04
F-1545	CIXFL_IO_X	CIX'FLAG'WORD(5)	CYCEEXEC'CPL	CDH	STATUS	1	5	F-1026/05
F-1546	CIXFL_06	CIX'FLAG'WORD(6)	CYCEEXEC'CPL	CDH	STATUS	1	6	F-1026/06
F-1547	CIXFL_07	CIX'FLAG'WORD(7)	CYCEEXEC'CPL	CDH	STATUS	1	7	F-1026/07
F-1548	CIXFL_MEcntl	CIX'FLAG'WORD(8)	CYCEEXEC'CPL	CDH	STATUS	1	8	F-1026/08
F-1549	CIXFL_09	CIX'FLAG'WORD(9)	CYCEEXEC'CPL	CDH	STATUS	1	9	F-1026/09
F-0330	RTE_CMD_X	COM'RATE	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0331	RTE_CMD_Y	COM'RATE	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0332	RTE_CMD_Z	COM'RATE	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-3010	CMD_LOSS_TMR	COMMAND'LOSSTIMER	TELECOM'INIT	TLCM	UNSIGNED	16	0	
F-1454	UPL_CMDSEQNO	COMMAND'SEQUENCE'NUMBER	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1431	TC_CMD_TIME	COMMAND'TIME	TIMEDCMD'CPL	CDH	UNSIGNED	32	0	
F-0455	STRX_MULSTAR	CONS'MULT'CAND	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0462	STRX_UNIDSTR	CONS'UNID'TRANS	STAREX'CPL	AACS	UNSIGNED	16	0	
F-1180	RDM_CE_CT_20	CONSEC'ERROR'COUNT(20)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1181	RDM_CE_CT_21	CONSEC'ERROR'COUNT(21)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1182	RDM_CE_CT_22	CONSEC'ERROR'COUNT(22)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1183	RDM_CE_CT_23	CONSEC'ERROR'COUNT(23)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1184	RDM_CE_CT_24	CONSEC'ERROR'COUNT(24)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1185	RDM_CE_CT_25	CONSEC'ERROR'COUNT(25)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1186	RDM_CE_CT_26	CONSEC'ERROR'COUNT(26)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1187	RDM_CE_CT_27	CONSEC'ERROR'COUNT(27)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1188	RDM_CE_CT_28	CONSEC'ERROR'COUNT(28)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1189	RDM_CE_CT_29	CONSEC'ERROR'COUNT(29)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1190	RDM_CE_CT_30	CONSEC'ERROR'COUNT(30)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1191	RDM_CE_CT_31	CONSEC'ERROR'COUNT(31)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1192	RDM_CE_CT_32	CONSEC'ERROR'COUNT(32)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1193	RDM_CE_CT_33	CONSEC'ERROR'COUNT(33)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1194	RDM_CE_CT_34	CONSEC'ERROR'COUNT(34)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1195	RDM_CE_CT_35	CONSEC'ERROR'COUNT(35)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1196	RDM_CE_CT_36	CONSEC'ERROR'COUNT(36)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1197	RDM_CE_CT_37	CONSEC'ERROR'COUNT(37)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1198	RDM_CE_CT_38	CONSEC'ERROR'COUNT(38)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1199	RDM_CE_CT_39	CONSEC'ERROR'COUNT(39)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1200	RDM_CE_CT_40	CONSEC'ERROR'COUNT(40)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1201	RDM_CE_CT_41	CONSEC'ERROR'COUNT(41)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1202	RDM_CE_CT_42	CONSEC'ERROR'COUNT(42)	REDMAN'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1203	RDM_CE_CT_43	CONSECERROR'COUNT(43)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1204	RDM_CE_CT_44	CONSECERROR'COUNT(44)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1205	RDM_CE_CT_45	CONSECERROR'COUNT(45)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1206	RDM_CE_CT_46	CONSECERROR'COUNT(46)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1207	RDM_CE_CT_47	CONSECERROR'COUNT(47)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1208	RDM_CE_CT_48	CONSECERROR'COUNT(48)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1209	RDM_CE_CT_49	CONSECERROR'COUNT(49)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1210	RDM_CE_CT_50	CONSECERROR'COUNT(50)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1211	RDM_CE_CT_51	CONSECERROR'COUNT(51)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1212	RDM_CE_CT_52	CONSECERROR'COUNT(52)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1213	RDM_CE_CT_53	CONSECERROR'COUNT(53)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1214	RDM_CE_CT_54	CONSECERROR'COUNT(54)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1215	RDM_CE_CT_55	CONSECERROR'COUNT(55)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1216	RDM_CE_CT_56	CONSECERROR'COUNT(56)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1217	RDM_CE_CT_57	CONSECERROR'COUNT(57)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1218	RDM_CE_CT_58	CONSECERROR'COUNT(58)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1219	RDM_CE_CT_59	CONSECERROR'COUNT(59)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1220	RDM_CE_CT_60	CONSECERROR'COUNT(60)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1221	RDM_CE_CT_61	CONSECERROR'COUNT(61)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1222	RDM_CE_CT_62	CONSECERROR'COUNT(62)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1223	RDM_CE_CT_63	CONSECERROR'COUNT(63)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1224	RDM_CE_CT_64	CONSECERROR'COUNT(64)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1225	RDM_CE_CT_65	CONSECERROR'COUNT(65)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1226	RDM_CE_CT_66	CONSECERROR'COUNT(66)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1227	RDM_CE_CT_67	CONSECERROR'COUNT(67)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1228	RDM_CE_CT_68	CONSECERROR'COUNT(68)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1229	RDM_CE_CT_69	CONSECERROR'COUNT(69)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1230	RDM_CE_CT_70	CONSECERROR'COUNT(70)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1231	RDM_CE_CT_71	CONSECERROR'COUNT(71)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1232	RDM_CE_CT_72	CONSECERROR'COUNT(72)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1233	RDM_CE_CT_73	CONSECERROR'COUNT(73)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1234	RDM_CE_CT_74	CONSECERROR'COUNT(74)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1236	RDM_CONTMODE	CONTMODE'FLAGS	SMOEXEC'CPL	CDH	STATUS	4	12	
F-3000	BEAM_DELAY	CONTINGENCY'BEAM'ON'DELAY	TELECOMPRESET	TLCM	UNSIGNED	16	0	
F-0055	CT_CNTRL_ST	CONTROL'STATE'COUNT	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0551	STRX_CORTEST	CORR'TEST	STAREX'CPL	AACS	SIGNED	16	0	
F-0010	COVAR_11(0)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0011	COVAR_11(1)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0012	COVAR_11(2)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0013	COVAR_11(3)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0014	COVAR_11(4)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0015	COVAR_11(5)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0016	COVAR_11(6)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0017	COVAR_11(7)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0018	COVAR_11(8)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0020	COVAR_12(0)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0021	COVAR_12(1)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0022	COVAR_12(2)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0023	COVAR_12(3)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0024	COVAR_12(4)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0025	COVAR_12(5)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0026	COVAR_12(6)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0027	COVAR_12(7)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0028	COVAR_12(8)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0030	COVAR_22(0)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0031	COVAR_22(1)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0032	COVAR_22(2)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0033	COVAR_22(3)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0034	COVAR_22(4)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0035	COVAR_22(5)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0036	COVAR_22(6)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0037	COVAR_22(7)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0038	COVAR_22(8)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-2030	BAT1_CP_CMD	CP'CMD(0)	POWER'MGMT'CPL	PWR	STATUS	4	12	
F-2080	BAT2_CP_CMD	CP'CMD(1)	POWER'MGMT'CPL	PWR	STATUS	4	12	
F-2031	BAT1_CP_TLM	CP'TLM(0)	POWER'MGMT'CPL	PWR	STATUS	4	12	
F-2081	BAT2_CP_TLM	CP'TLM(1)	POWER'MGMT'CPL	PWR	STATUS	4	12	
F-2032	BAT1_CR_CMD	CR'CMD(0)	POWER'MGMT'CPL	PWR	STATUS	2	14	
F-2082	BAT2_CR_CMD	CR'CMD(1)	POWER'MGMT'CPL	PWR	STATUS	2	14	
F-2033	BAT1_CR_TLM	CR'TLM(0)	POWER'MGMT'CPL	PWR	STATUS	2	14	
F-2083	BAT2_CR_TLM	CR'TLM(1)	POWER'MGMT'CPL	PWR	STATUS	2	14	
F-1455	UPL_CRCERRCT	CRC'ERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-0051	CSAwDNONZERO	CSAWRDNZ	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0450	STRX_CMRESET	CUM'SISRESETCNT	STAREXCPL	AACS	UNSIGNED	16	0	
F-1340	RDM_SIDE_EDF	CURRENT'EDFSIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1341	RDM_SIDE_HGA	CURRENT'HGA'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1342	RDM_SIDE_MHS	CURRENT'MHSA'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1343	RDM_SIDE_PSE	CURRENTPSE'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1339	RDM_SIDE_RPA	CURRENTRPA'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1344	RDM_SIDE_SAM	CURRENTSAM'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1345	RDM_SIDE_SAP	CURRENTSAP'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1346	RDM_SIDE_SSA	CURRENTSSA'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1347	RDM_SIDE_XSU	CURRENTXSU'SIDE	REDMAN'CPL	CDH	STATUS	4	12	
F-1031	CV_Q_COUNT	CVQUE'DEScriptor	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1030	CV_DATA_WORD	CVWORD	TELEMETRY'CPL	CDH	DIGITAL	16	0	
F-1010	CE_DISCRETE	CYCEEXEC'DISCRETE	CYCEEXEC'PRESET	CDH	STATUS	1	0	
F-2009	BAT1_DCH_I	DCHG'CURR(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2059	BAT2_DCH_I	DCHG'CURR(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2022	BAT1_HI_D_CT	DCHG'HI'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2072	BAT2_HI_D_CT	DCHG'HI'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-1034	DEVDEAD_1	DEVICE'DEAD'FLAG	REDMAN'CPL	CDH	DIGITAL	16	0	F-1034
F-1035	DEVDEAD_2	DEVICE'DEAD'FLAG	REDMAN'CPL	CDH	DIGITAL	16	0	F-1035
F-1560	DVDEAD1_BUS	DEVICE'DEAD'FLAG(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1034/00
F-1680	DVDEAD2_MHSA	DEVICE'DEAD'FLAG(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1035/00
F-1561	DVDEAD1_CLK	DEVICE'DEAD'FLAG(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1034/01
F-1681	DVDEAD2_CSA	DEVICE'DEAD'FLAG(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1035/01
F-1570	DVDEAD1_MOT	DEVICE'DEAD'FLAG(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1034/10
F-1690	DVDEAD2_SP10	DEVICE'DEAD'FLAG(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1035/10

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1571	DVDEAD1_PSE	DEVICE'DEAD'FLAG(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1034/11
F-1691	DVDEAD2_SP11	DEVICE'DEAD'FLAG(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1035/11
F-1572	DVDEAD1_SAP	DEVICE'DEAD'FLAG(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1034/12
F-1692	DVDEAD2_SP12	DEVICE'DEAD'FLAG(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1035/12
F-1573	DVDEAD1_HGA	DEVICE'DEAD'FLAG(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1034/13
F-1693	DVDEAD2_SP13	DEVICE'DEAD'FLAG(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1035/13
F-1574	DVDEAD1_SAM	DEVICE'DEAD'FLAG(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1034/14
F-1694	DVDEAD2_SP14	DEVICE'DEAD'FLAG(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1035/14
F-1575	DVDEAD1_AACS	DEVICE'DEAD'FLAG(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1034/15
F-1695	DVDEAD2_SP15	DEVICE'DEAD'FLAG(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1035/15
F-1562	DVDEAD1_SSA	DEVICE'DEAD'FLAG(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1034/02
F-1682	DVDEAD2_TANK	DEVICE'DEAD'FLAG(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1035/02
F-1563	DVDEAD1_RWA	DEVICE'DEAD'FLAG(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1034/03
F-1683	DVDEAD2_REA	DEVICE'DEAD'FLAG(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1035/03
F-1564	DVDEAD1_IMU	DEVICE'DEAD'FLAG(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1034/04
F-1684	DVDEAD2_SP04	DEVICE'DEAD'FLAG(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1035/04
F-1565	DVDEAD1_GYRO	DEVICE'DEAD'FLAG(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1034/05
F-1685	DVDEAD2_SP05	DEVICE'DEAD'FLAG(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1035/05
F-1566	DVDEAD1_DTC	DEVICE'DEAD'FLAG(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1034/06
F-1686	DVDEAD2_SP06	DEVICE'DEAD'FLAG(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1035/06
F-1567	DVDEAD1_EDF	DEVICE'DEAD'FLAG(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1034/07
F-1687	DVDEAD2_SP07	DEVICE'DEAD'FLAG(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1035/07
F-1568	DVDEAD1_XSU	DEVICE'DEAD'FLAG(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1034/08
F-1688	DVDEAD2_SP08	DEVICE'DEAD'FLAG(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1035/08
F-1569	DVDEAD1_RPA	DEVICE'DEAD'FLAG(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1034/09
F-1689	DVDEAD2_SP09	DEVICE'DEAD'FLAG(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1035/09
F-1004	AUDIT_Q_W4	DIAGNOSTIC'DATA'1	AUDITQUE'CPL	CDH	DIGITAL	16	0	
F-1005	AUDIT_Q_W5	DIAGNOSTIC'DATA'2	AUDITQUE'CPL	CDH	DIGITAL	16	0	
F-2004	BAT1_CDR_DN	DN'CD'RATIO(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2054	BAT2_CDR_DN	DN'CD'RATIO(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-0065	DOTPROD_MULT	DOTPROD'MULT	STAREX'CPL	AACS	SIGNED	16	0	
F-1456	UPL_DOUBERCT	DOUBLE'ERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1040	EDF_ERROR_CT	EDFERROR'COUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1041	EDF_ERR_CNT1	EDFERROR'MATRIX	SUBCOM'CPL	CDH	UNSIGNED	16	0	
F-1042	EDF_ERR_CNT2	EDFERROR'MATRIX	SUBCOM'CPL	CDH	UNSIGNED	16	0	
F-1043	EDF_ERR_MAT1	EDFERROR'MATRIX	SUBCOM'CPL	CDH	DIGITAL	16	0	
F-1044	EDF_ERR_MAT2	EDFERROR'MATRIX	SUBCOM'CPL	CDH	DIGITAL	16	0	
F-1045	EDF_FINISH	EDF'INITIALIZATION'START'TIME	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1240	RDM_EDFonTIM	EDF'INITIALIZATION'START'TIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1046	EDF_INTER_CT	EDF'INTERRUPT'COUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1047	EDF_PKT_0	EDF'SUBCOM'PACKET	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1048	EDF_PKT_1	EDF'SUBCOM'PACKET	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-0274	MOM_EMERG_WT	EM'THRUSTER'WARM'UPTIME	AACS2'MOMUNL'PRESET	AACS	UNSIGNED	16	0	
F-1412	SCP_EMRTLMNO	EMERGENCYTLM'VERSION	TELEMETRY'TABLES'PRESET	CDH	UNSIGNED	16	0	
F-1413	SCP_ENGTLMNO	ENGINEERINGTLM'VERSION	TELEMETRY'TABLES'PRESET	CDH	UNSIGNED	16	0	
F-0071	EPH_ANG_NODE	EPHEM'ANGLE(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0070	EPH_ANG_INCL	EPHEM'ANGLE(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0072	EPH_ANG_ORBT	EPHEM'ANGLE(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0074	EPH_EARTH_BX	EPHEM'EARTH'B'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0075	EPH_EARTH_BY	EPHEM'EARTH'B'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0076	EPH_EARTH_BZ	EPHEM'EARTH'B'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0077	EPH_EARTH_IX	EPHEM'EARTH'I'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0078	EPH_EARTH_IY	EPHEM'EARTH'I'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0079	EPH_EARTH_IZ	EPHEM'EARTH'I'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0080	EPH_PITCH	EPHEM'PITCH'CORRECTION	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0085	EPH_SUN_BX	EPHEM'SUN'B'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0086	EPH_SUN_BY	EPHEM'SUN'B'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0087	EPH_SUN_BZ	EPHEM'SUN'B'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0090	EPH_SUN_IX	EPHEM'SUN'I'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0091	EPH_SUN_IY	EPHEM'SUN'I'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0092	EPH_SUN_IZ	EPHEM'SUN'I'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0094	EQ_CROSS	EQCR'TIME'TO'NODE	AACS2'EPHEM'CPL	AACS	UNSIGNED	16	0	
F-1170	RDM_ABSNTDAT	ERROR'DATA'ABSENT'COUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1262	RDM_IMU_STAT	EXPECTED'IMU'STATUS'WORD	REDMAN'CPL	CDH	DIGITAL	16	0	
F-2008	BAT1_CHG_I_F	FILT'CHRG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2058	BAT2_CHG_I_F	FILT'CHRG(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2010	BAT1_DCH_I_F	FILT'DCHG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2060	BAT2_DCH_I_F	FILT'DCHG(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-0100	FILT_SUN_X	FILT'SUN(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0101	FILT_SUN_Y	FILT'SUN(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0102	FILT_SUN_Z	FILT'SUN(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-1062	EIS_FLPT_OF	FLOFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1063	EIS_FLPT_UF	FLUFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1328	RDM_NEEDDATA	FOLLOW'UP'REQ'DATA'COUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1457	UPL_FMTERRCT	FORMATERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1459	UPL_RECVDCNT	FRAMES'RECEIVED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1331	RDM_RWA_FREZ	FREEZE'RWA'CONFIG	REDMAN'CPL	CDH	STATUS	4	12	
F-1061	EIS_FIXPT_OF	FXOFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1011	CE_GND_ENT_T	GND'STATE'ENTRY'TIME	CYCEEXEC'CPL	CDH	UNSIGNED	32	0	
F-2014	BAT1_TMP_GRD	GRAD'TEMP(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2064	BAT2_TMP_GRD	GRAD'TEMP(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-0105	GYR_BL_EST_X	GYRO'BIAS'EST(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0106	GYR_BL_EST_Y	GYRO'BIAS'EST(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0107	GYR_BL_EST_Z	GYRO'BIAS'EST(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-1252	RDM_GYRONTIM	GYRO'POWER'ONTIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1253	RDM_GYROPWSH	GYRO'POWER'ONTIME	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1250	RDM_GMSWREN	GYRO'SHORTRECOVERY'ENABLE	REDMAN'CPL	CDH	STATUS	4	12	
F-1256	RDM_GYscPHSE	GYRO'SHORTRECOVERY'PHASE	REDMAN'CPL	CDH	STATUS	4	12	
F-1251	RDM_GMWSRST	GYRO'SHORTRECOVERY'START'TIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1254	RDM_GYRORCSH	GYRO'SHORTRECOVERY'START'TIME	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-0190	HGA_AZ_ANG	HGA'AZI'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0191	HGA_AZ_CMD	HGA'AZI'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0193	HGA_AZ_TRG	HGA'AZI'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0194	HGA_CNTRL_ST	HGA'CONTROL'STATUS	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0195	HGA_EL_ANG	HGA'ELE'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0196	HGA_EL_CMD	HGA'ELE'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0198	HGA_EL_TRG	HGA'ELE'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0192	HGA_AZ_POS	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0197	HGA_EL_POS	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0200	HGA_STATS	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0200
F-0620	HGA_STATS_00	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0200/00
F-0621	HGA_STATS_01	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0200/01
F-0622	HGA_STATS_02	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0200/02
F-0623	HGA_STATS_03	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	3	F-0200/03
F-0625	HGA_STATS_05	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0200/05
F-0626	HGA_STATS_06	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0200/06
F-0627	HGA_STATS_07	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	2	7	F-0200/07
F-0629	HGA_STATS_09	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0200/09
F-0630	HGA_STATS_10	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0200/10
F-0631	HGA_STATS_11	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	11	F-0200/11
F-0633	HGA_STATS_13	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0200/13
F-0634	HGA_STATS_14	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0200/14
F-0635	HGA_STATS_15	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	1	15	F-0200/15
F-0201	HGA_TIMEOUT	HGA'SIBTIMEOUT	CYCEXECCPL	AACS	STATUS	4	12	
F-2023	BAT1_HI_T_CT	HI'TEMP'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2073	BAT2_HI_T_CT	HI'TEMP'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-0451	STRX_HIRATIO	HIGHESTRATIO	STAREXCPL	AACS	SIGNED	16	0	
F-1064	EIS_IIL_EXEC	ILLEXEC'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-0541	IMU_DRIFT_1	IMU'DRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0542	IMU_DRIFT_2	IMU'DRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0543	IMU_DRIFT_3	IMU'DRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0544	IMU_DRIFT_4	IMU'DRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0545	IMU_DRIFT_5	IMU'DRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0546	IMU_DRIFT_6	IMU'DRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0205	IMU_CHK_FROZ	IMU'FROZEN'CHK'ENABLED	AACS10'PRESET	AACS	STATUS	1	0	
F-0206	IMU_CHK_STAT	IMU'STATUS'CHK'ENABLED	AACS10'PRESET	AACS	STATUS	1	0	
F-0220	IMUstatMASK	IMU'STATUSWORD'MASK	AACS10'PRESET	AACS	DIGITAL	16	0	
F-0270	MOM_DYAD_0	INERTIA'DYADIC(0)	AACS2'MOMUNL'PRESET	AACS	SIGNED	16	0	
F-0271	MOM_DYAD_4	INERTIA'DYADIC(4)	AACS2'MOMUNL'PRESET	AACS	SIGNED	16	0	
F-0272	MOM_DYAD_8	INERTIA'DYADIC(8)	AACS2'MOMUNL'PRESET	AACS	SIGNED	16	0	
F-1080	INT_CMDEX_CT	INTERNAL'CMDS'EXECUTED'COUNT	CMDEX'DATA'CPL	CDH	UNSIGNED	16	0	
F-1081	INT_CMDRJ_CT	INTERNAL'CMDS'REJECTED'COUNT	CMDEX'DATA'CPL	CDH	UNSIGNED	16	0	
F-2005	BAT1_INT_CHG	INTG'CHRG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2055	BAT2_INT_CHG	INTG'CHRG(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2006	BAT1_INT_DCH	INTG'DCHG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2056	BAT2_INT_DCH	INTG'DCHG(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-0423	SELT_DYINV0	INV'INERTIA'DYADIC(0)	SELTS'PRESET	AACS	SIGNED	16	0	
F-0424	SELT_DYINV4	INV'INERTIA'DYADIC(4)	SELTS'PRESET	AACS	SIGNED	16	0	
F-0425	SELT_DYINV8	INV'INERTIA'DYADIC(8)	SELTS'PRESET	AACS	SIGNED	16	0	
F-1434	TC_INVLPLMS	INVALID'PULSTERM'MSG'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-0223	ISH_slewRATE	ISH'CNTRL'PARAMS	AACS2'MISC'CNTRL'PRESET	AACS	SIGNED	16	0	
F-2040	BAT1_LAST_I	LAST'CURRTLM(0)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2090	BAT2_LAST_I	LAST'CURRTLM(1)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2110	PSE_LAST_CMD	LAST'PSE'CMD	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2041	BAT1_LAST_T	LAST'TEMP'TLM(0)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2091	BAT2_LAST_T	LAST'TEMP'TLM(1)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-3020	LGA_CYCLE	LGA'CYCLE'PERIOD	TELECOMPRESET	TLCM	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-3021	LGA_TIMER	LGA'CYCLE'TIMER	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-1066	EIS_LVL0_ERR	LVL0ISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1237	RDM_DEV_CFG1	MAIN'DEVICE'CONFIG'INFO	REDMAN'CPL	AACS	DIGITAL	16	0	F-1237
F-1238	RDM_DEV_CFG2	MAIN'DEVICE'CONFIG'INFO	REDMAN'CPL	AACS	DIGITAL	16	0	F-1238
F-1720	RDM_DC1_SSA	MAIN'DEVICE'CONFIG'INFO(0)	REDMAN'CPL	AACS	STATUS	1	0	F-1237/00
F-1740	RDM_DC2_GYRO	MAIN'DEVICE'CONFIG'INFO(0)	REDMAN'CPL	AACS	STATUS	3	0	F-1238/00
F-1721	RDM_DC1_RPA	MAIN'DEVICE'CONFIG'INFO(1)	REDMAN'CPL	AACS	STATUS	1	1	F-1237/01
F-1730	RDM_DC1_SP10	MAIN'DEVICE'CONFIG'INFO(10)	REDMAN'CPL	AACS	STATUS	1	10	F-1237/10
F-1750	RDM_DC2_SP10	MAIN'DEVICE'CONFIG'INFO(10)	REDMAN'CPL	AACS	STATUS	1	10	F-1238/10
F-1731	RDM_DC1_SP11	MAIN'DEVICE'CONFIG'INFO(11)	REDMAN'CPL	AACS	STATUS	1	11	F-1237/11
F-1751	RDM_DC2_SP11	MAIN'DEVICE'CONFIG'INFO(11)	REDMAN'CPL	AACS	STATUS	1	11	F-1238/11
F-1732	RDM_DC1_SP12	MAIN'DEVICE'CONFIG'INFO(12)	REDMAN'CPL	AACS	STATUS	1	12	F-1237/12
F-1752	RDM_DC2_SP12	MAIN'DEVICE'CONFIG'INFO(12)	REDMAN'CPL	AACS	STATUS	1	12	F-1238/12
F-1733	RDM_DC1_SP13	MAIN'DEVICE'CONFIG'INFO(13)	REDMAN'CPL	AACS	STATUS	1	13	F-1237/13
F-1753	RDM_DC2_SP13	MAIN'DEVICE'CONFIG'INFO(13)	REDMAN'CPL	AACS	STATUS	1	13	F-1238/13
F-1734	RDM_DC1_SP14	MAIN'DEVICE'CONFIG'INFO(14)	REDMAN'CPL	AACS	STATUS	1	14	F-1237/14
F-1754	RDM_DC2_SP14	MAIN'DEVICE'CONFIG'INFO(14)	REDMAN'CPL	AACS	STATUS	1	14	F-1238/14
F-1735	RDM_DC1_SP15	MAIN'DEVICE'CONFIG'INFO(15)	REDMAN'CPL	AACS	STATUS	1	15	F-1237/15
F-1755	RDM_DC2_SP15	MAIN'DEVICE'CONFIG'INFO(15)	REDMAN'CPL	AACS	STATUS	1	15	F-1238/15
F-1722	RDM_DC1_EDF	MAIN'DEVICE'CONFIG'INFO(2)	REDMAN'CPL	AACS	STATUS	1	2	F-1237/02
F-1723	RDM_DC1_XSU	MAIN'DEVICE'CONFIG'INFO(3)	REDMAN'CPL	AACS	STATUS	1	3	F-1237/03
F-1743	RDM_DC2_RWA	MAIN'DEVICE'CONFIG'INFO(3)	REDMAN'CPL	AACS	STATUS	4	3	F-1238/03
F-1724	RDM_DC1_PSE	MAIN'DEVICE'CONFIG'INFO(4)	REDMAN'CPL	AACS	STATUS	1	4	F-1237/04
F-1725	RDM_DC1_SAP	MAIN'DEVICE'CONFIG'INFO(5)	REDMAN'CPL	AACS	STATUS	1	5	F-1237/05
F-1726	RDM_DC1_SAM	MAIN'DEVICE'CONFIG'INFO(6)	REDMAN'CPL	AACS	STATUS	1	6	F-1237/06
F-1727	RDM_DC1_HGA	MAIN'DEVICE'CONFIG'INFO(7)	REDMAN'CPL	AACS	STATUS	1	7	F-1237/07
F-1747	RDM_DC2_FRWA	MAIN'DEVICE'CONFIG'INFO(7)	REDMAN'CPL	AACS	STATUS	1	7	F-1238/07
F-1728	RDM_DC1_MHSA	MAIN'DEVICE'CONFIG'INFO(8)	REDMAN'CPL	AACS	STATUS	1	8	F-1237/08
F-1748	RDM_DC2_REA	MAIN'DEVICE'CONFIG'INFO(8)	REDMAN'CPL	AACS	STATUS	2	8	F-1238/08
F-1729	RDM_DC1_SP09	MAIN'DEVICE'CONFIG'INFO(9)	REDMAN'CPL	AACS	STATUS	1	9	F-1237/09
F-0227	MANUVR_FLAG	MANUVR'FLAGS	MANUVR'VARSCPL	AACS	DIGITAL	16	0	
F-0228	MANUVR_STATE	MANUVR'STATE	MANUVR'VARSCPL	AACS	STATUS	4	12	
F-0056	CT_MAP_LOST	MAP'LOST'COUNT	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-1435	TC_MAXACTSCR	MAX'ACTIVE'SCRIPTS	TIMEDCMD'PRESET	CDH	UNSIGNED	16	0	
F-3030	PDS_MAXnotOK	MAX'CONSEC'PDS'NOT'OK	TELECOM'PRESET	TLCM	UNSIGNED	16	0	
F-1012	CE_GND_MAX_T	MAX'GND'STATE'TIME	CYCEEXEC'CPL	CDH	UNSIGNED	32	0	
F-1436	TC_MAX_ADDR	MAX'SCRIPT'ADDRESS	TIMEDCMD'CPL	CDH	DIGITAL	16	0	
F-0454	STRX_MAXBIN	MAXBIN	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0554	STRX_MB_CNTS	MAXBIN'COUNTS	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0559	STRX_NOIZVAR	MEAS'NOISE'VAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0555	STRX_MVEC_X	MEAS'VEC(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0556	STRX_MVEC_Y	MEAS'VEC(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0557	STRX_MVEC_Z	MEAS'VEC(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-1090	MCHK_ITTR_CT	MEMCHK'ITERATIONS	MEMCHK'CPL	CDH	UNSIGNED	32	0	
F-1092	MEOK_WORD	MEOK'INHIBIT'WORD	CYCEEXEC'CPL	CDH	DIGITAL	16	0	F-1092
F-1580	MEOK_OFFL	MEOK'INHIBIT'WORD(0)	CYCEEXEC'CPL	CDH	STATUS	1	0	F-1092/00
F-1581	MEOK_ERR	MEOK'INHIBIT'WORD(1)	CYCEEXEC'CPL	CDH	STATUS	1	1	F-1092/01
F-1590	MEOK_SPARES	MEOK'INHIBIT'WORD(10)	CYCEEXEC'CPL	CDH	UNSIGNED	6	10	F-1092/10
F-1582	MEOK_REQ	MEOK'INHIBIT'WORD(2)	CYCEEXEC'CPL	CDH	STATUS	1	2	F-1092/02

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1583	MEOK_QUER	MEOK'INHIBIT'WORD(3)	CYCEEXEC'CPL	CDH	STATUS	1	3	F-1092/03
F-1584	MEOK_ROUT	MEOK'INHIBIT'WORD(4)	CYCEEXEC'CPL	CDH	STATUS	1	4	F-1092/04
F-1585	MEOK_UOUT	MEOK'INHIBIT'WORD(5)	CYCEEXEC'CPL	CDH	STATUS	1	5	F-1092/05
F-1586	MEOK_TOUT	MEOK'INHIBIT'WORD(6)	CYCEEXEC'CPL	CDH	STATUS	1	6	F-1092/06
F-1587	MEOK_POUT	MEOK'INHIBIT'WORD(7)	CYCEEXEC'CPL	CDH	STATUS	1	7	F-1092/07
F-1588	MEOK_WKUP	MEOK'INHIBIT'WORD(8)	CYCEEXEC'CPL	CDH	STATUS	1	8	F-1092/08
F-1589	MEOK_STAK	MEOK'INHIBIT'WORD(9)	CYCEEXEC'CPL	CDH	STATUS	1	9	F-1092/09
F-1069	EIS_MER_PgOF	MERR'OFFSETADDRESS	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-1068	EIS_MER_PAGE	MERR'PAGENUMBER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1067	EIS_MACH_ERR	MERRISR COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-0231	MHSA_A-S_Q1	MHSA'A'MIN'S'DATA(0)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0232	MHSA_A-S_Q2	MHSA'A'MIN'S'DATA(1)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0233	MHSA_A-S_Q3	MHSA'A'MIN'S'DATA(2)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0234	MHSA_A-S_Q4	MHSA'A'MIN'S'DATA(3)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0235	MHSA_B-S_Q1	MHSA'B'MIN'S'DATA(0)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0236	MHSA_B-S_Q2	MHSA'B'MIN'S'DATA(1)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0237	MHSA_B-S_Q3	MHSA'B'MIN'S'DATA(2)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0238	MHSA_B-S_Q4	MHSA'B'MIN'S'DATA(3)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0241	MHSA_DETA_Q1	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0242	MHSA_DETA_Q2	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0243	MHSA_DETA_Q3	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0244	MHSA_DETA_Q4	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0245	MHSA_DETB_Q1	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0246	MHSA_DETB_Q2	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0247	MHSA_DETB_Q3	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0248	MHSA_DETB_Q4	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0251	MHSA_DETS_Q1	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0252	MHSA_DETS_Q2	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0253	MHSA_DETS_Q3	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0254	MHSA_DETS_Q4	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0426	SELT_MHSATS	MHSA'TEST'SET'ON	SELTS'PRESET	AACS	DIGITAL	16	0	
F-1094	MINISEQ_STAT	MINI'SEQ'STATUS	MINI'SEQ'CPL	CDH	DIGITAL	16	0	F-1094
F-1600	MINISEQ_ACTV	MINI'SEQ'STATUS(0)	MINI'SEQ'CPL	CDH	STATUS	1	0	F-1094/00
F-1601	MINISEQ_CMDE	MINI'SEQ'STATUS(1)	MINI'SEQ'CPL	CDH	STATUS	1	1	F-1094/01
F-1602	MINISEQ_TAGE	MINI'SEQ'STATUS(2)	MINI'SEQ'CPL	CDH	STATUS	1	2	F-1094/02
F-1603	MINISEQ_CNTE	MINI'SEQ'STATUS(3)	MINI'SEQ'CPL	CDH	STATUS	1	3	F-1094/03
F-1604	MINISEQ_COMP	MINI'SEQ'STATUS(4)	MINI'SEQ'CPL	CDH	STATUS	1	4	F-1094/04
F-1605	MINISEQ_05	MINI'SEQ'STATUS(5)	MINI'SEQ'CPL	CDH	UNSIGNED	3	5	F-1094/05
F-1608	MINISEQ_CEXC	MINI'SEQ'STATUS(8)	MINI'SEQ'CPL	CDH	UNSIGNED	8	8	F-1094/08
F-1414	SCP_FRAME_ID	MINOR'FRAME NUMBER	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1260	RDM_IMURCOVT	MISS'DIMU'INT'RCVRY'START'TIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1261	RDM_IMUTWMIS	MISS'DIMU'INT'RCVRY'START'TIME	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1620	MP_MGS_SEP1	MISSION'PHASE'BUFFER(0)	SMOEXEC'CPL	CDH	STATUS	1	0	F-1096/00
F-1621	MP_MPR3	MISSION'PHASE'BUFFER(1)	SMOEXEC'CPL	CDH	STATUS	1	1	F-1096/01
F-1630	MP_MGS_SEP4	MISSION'PHASE'BUFFER(10)	SMOEXEC'CPL	CDH	STATUS	1	10	F-1096/10
F-1631	MP_LIFTOFF2	MISSION'PHASE'BUFFER(11)	SMOEXEC'CPL	CDH	STATUS	1	11	F-1096/11
F-1632	MP_POB_ECHO3	MISSION'PHASE'BUFFER(12)	SMOEXEC'CPL	CDH	STATUS	1	12	F-1096/12
F-1633	MP_SCP_ID	MISSION'PHASE'BUFFER(13)	SMOEXEC'CPL	CDH	STATUS	3	13	F-1096/13
F-1622	MP_POB_ECHO1	MISSION'PHASE'BUFFER(2)	SMOEXEC'CPL	CDH	STATUS	1	2	F-1096/02

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1623	MP_03	MISSION'PHASE'BUFFER(3)	SMOEXEC CPL	CDH	STATUS	1	3	F-1096/03
F-1624	MP_MGS_SEP2	MISSION'PHASE'BUFFER(4)	SMOEXEC CPL	CDH	STATUS	1	4	F-1096/04
F-1625	MP_MGS_SEP3	MISSION'PHASE'BUFFER(5)	SMOEXEC CPL	CDH	STATUS	1	5	F-1096/05
F-1626	MP_MPR2	MISSION'PHASE'BUFFER(6)	SMOEXEC CPL	CDH	STATUS	1	6	F-1096/06
F-1627	MP_POB_ECHO2	MISSION'PHASE'BUFFER(7)	SMOEXEC CPL	CDH	STATUS	1	7	F-1096/07
F-1628	MP_MPR1	MISSION'PHASE'BUFFER(8)	SMOEXEC CPL	CDH	STATUS	1	8	F-1096/08
F-1629	MP_LIFTOFF1	MISSION'PHASE'BUFFER(9)	SMOEXEC CPL	CDH	STATUS	1	9	F-1096/09
F-0268	MOI_STATUS	MOI'STATE	MANUVR'VARS'CPL	AACS	STATUS	4	12	
F-0276	MOM_PRESETS	MOM'UNL'ENABLE	AACS2'MOMUNL'PRESET	AACS	DIGITAL	16	0	F-0276
F-0720	MOM_PRESET_0	MOM'UNL'ENABLE	AACS2'MOMUNL'PRESET	AACS	STATUS	1	0	F-0276/00
F-0721	MOM_PRESET_1	MOM'UNL'ENABLE	AACS2'MOMUNL'PRESET	AACS	STATUS	1	1	F-0276/01
F-0277	MOM_UNL_STAT	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	DIGITAL	16	0	F-0277
F-0884	MOMUNL_AXIS	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	STATUS	4	4	F-0277/04
F-0888	MOMUNL_STATE	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	STATUS	4	8	F-0277/08
F-0892	UNLSEQ_STATE	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	STATUS	4	12	F-0277/12
F-3042	TLCM_DSW2	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	DIGITAL	16	0	F-3042
F-3220	TD2_TWTA_ST	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	0	F-3042/00
F-3221	TD2_PWR_MGMT	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	1	F-3042/01
F-3222	TD2_TWTApmEN	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	2	F-3042/02
F-3223	TD2_DNL_ANT	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	2	3	F-3042/03
F-3225	TD2_RPA1_H_I	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	5	F-3042/05
F-3226	TD2_RPA2_H_I	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	6	F-3042/06
F-3227	TD2_TWTA1sHV	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	7	F-3042/07
F-3228	TD2_TWTA2sHV	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	8	F-3042/08
F-3229	TD2_TRNofFIL	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	9	F-3042/09
F-3230	TD2_BEAMcmON	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	10	F-3042/10
F-3231	TD2_TRNonFIL	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	11	F-3042/11
F-3232	TD2_SPARE12	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	12	F-3042/12
F-3233	TD2_SPARE13	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	13	F-3042/13
F-3234	TD2_SPARE14	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	14	F-3042/14
F-3235	TD2_SPARE15	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	15	F-3042/15
F-0365	SAM_BMTRX_0	MTRX'B'FROM'SAM(0)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0366	SAM_BMTRX_1	MTRX'B'FROM'SAM(1)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0367	SAM_BMTRX_2	MTRX'B'FROM'SAM(2)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0368	SAM_BMTRX_3	MTRX'B'FROM'SAM(3)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0369	SAM_BMTRX_4	MTRX'B'FROM'SAM(4)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0370	SAM_BMTRX_5	MTRX'B'FROM'SAM(5)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0371	SAM_BMTRX_6	MTRX'B'FROM'SAM(6)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0372	SAM_BMTRX_7	MTRX'B'FROM'SAM(7)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0373	SAM_BMTRX_8	MTRX'B'FROM'SAM(8)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0395	SAP_BMTRX_0	MTRX'B'FROM'SAP(0)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0396	SAP_BMTRX_1	MTRX'B'FROM'SAP(1)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0397	SAP_BMTRX_2	MTRX'B'FROM'SAP(2)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0398	SAP_BMTRX_3	MTRX'B'FROM'SAP(3)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0399	SAP_BMTRX_4	MTRX'B'FROM'SAP(4)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0400	SAP_BMTRX_5	MTRX'B'FROM'SAP(5)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0401	SAP_BMTRX_6	MTRX'B'FROM'SAP(6)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0402	SAP_BMTRX_7	MTRX'B'FROM'SAP(7)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0403	SAP_BMTRX_8	MTRX'B'FROM'SAP(8)	AACS2'SSA'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0009	ATT_STAT_NEW	NEW'AACS'STATUS	AACS2'GLOBAL'PRESET	AACS	DIGITAL	16	0	F-0009
F-0900	ASN_CSAoffst	NEW'AACS'STATUS(0)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	0	F-0009/00
F-0901	ASN_NOM_ACT	NEW'AACS'STATUS(1)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	1	F-0009/01
F-0910	ASN_THR_SEL	NEW'AACS'STATUS(10)	AACS2'GLOBAL'PRESET	AACS	STATUS	2	10	F-0009/10
F-0912	ASN_SPARE_12	NEW'AACS'STATUS(12)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	12	F-0009/12
F-0913	ASN_SPARE_13	NEW'AACS'STATUS(13)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	13	F-0009/13
F-0914	ASN_SPARE_14	NEW'AACS'STATUS(14)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	14	F-0009/14
F-0915	ASN_SPARE_15	NEW'AACS'STATUS(15)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	15	F-0009/15
F-0902	ASN_CM_ACT	NEW'AACS'STATUS(2)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	2	F-0009/02
F-0903	ASN_THR_LEAK	NEW'AACS'STATUS(3)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	3	F-0009/03
F-0904	ASN_CNTR_FLT	NEW'AACS'STATUS(4)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	4	F-0009/04
F-0905	ASN_RWA_STIC	NEW'AACS'STATUS(5)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	5	F-0009/05
F-0906	ASN_SPARE_06	NEW'AACS'STATUS(6)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	6	F-0009/06
F-0907	ASN_SPARE_07	NEW'AACS'STATUS(7)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	7	F-0009/07
F-0908	ASN_EOD	NEW'AACS'STATUS(8)	AACS2'GLOBAL'PRESET	AACS	STATUS	2	8	F-0009/08
F-0456	STRX_NEXTBIN	NEXBIN	STAREXCPL	AACS	UNSIGNED	16	0	
F-0558	STRX_NB_CNTS	NEXBIN'COUNTS	STAREXCPL	AACS	UNSIGNED	16	0	
F-1437	TC_NCTOFFS	NON'CONTROL'TIME'OFFSET	TIMEDCMD'PRESET	CDH	UNSIGNED	16	0	
F-0452	STRX_IDTRNNO	NUM'IDENTTRANS	STAREXCPL	AACS	UNSIGNED	16	0	
F-0463	STRX_VALTRNS	NUM'VALIDTRANS	STAREXCPL	AACS	UNSIGNED	16	0	
F-0280	O_NORMAL_0	O'NORMAL(0)	STAREXCPL	AACS	SIGNED	16	0	
F-0281	O_NORMAL_1	O'NORMAL(1)	STAREXCPL	AACS	SIGNED	16	0	
F-0282	O_NORMAL_2	O'NORMAL(2)	STAREXCPL	AACS	SIGNED	16	0	
F-1255	RDM_GYRO_CNF	ORIGINAL'CHANNEL'CONFIG	REDMAN'CPL	CDH	STATUS	4	12	
F-1330	RDM_RWA_CNGF	ORIGINAL'RWA'CONFIG	REDMAN'CPL	CDH	STATUS	4	12	
F-2011	BAT1_TEMP_1	PACKA'TEMP(0)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2061	BAT2_TEMP_1	PACKA'TEMP(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2012	BAT1_TEMP_2	PACKB'TEMP(0)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-2062	BAT2_TEMP_2	PACKB'TEMP(1)	POWER'MGMTCPL	PWR	SIGNED	16	0	
F-0283	PACK_ATT	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0283
F-0740	INERT_REF	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0283/00
F-0741	BU_INERT_REF	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0283/01
F-0742	MHSA_USABLE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0283/02
F-0743	SUN_MON_CHK	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	3	F-0283/03
F-0744	MHSA_VIEW	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	4	F-0283/04
F-0745	MHSA_DATA	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0283/05
F-0746	SUN_FILTER	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0283/06
F-0747	STAR_UPDATE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	7	F-0283/07
F-0748	MNVR_ACTIVE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	8	F-0283/08
F-0749	SUN_ON_ARRAY	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0283/09
F-0750	NEW_MODE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0283/10
F-0751	LNCH_TACH_LK	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	11	F-0283/11
F-0752	SUN_MON_LIM	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	12	F-0283/12
F-0753	SUN_DIF_EPH	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0283/13
F-0754	PACK_ATT_14	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0283/14
F-0755	CM_REQ_PEND	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	15	F-0283/15
F-1421	SMOEX_PKD_ST	PACKED'SMOEXEC'STATE	SMOEXEC'CPL	CDH	DIGITAL	16	0	
F-1100	PDS_INTER	PDS'INTERRUPTCOUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1101	PDS_SENT	PDS'MESSAGES'SENT'COUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1102	PDS_SEQNO	PDS'SEQUENCENUMBER	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1103	PDS_TMOUT_CT	PDSTIMEOUT'COUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1104	PDS_TO_SEQNO	PDSTIMEOUT'SEQ'NUM	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1105	PDS_UNXMSGCT	PDS'UNEXPECTED'MSGTYPE'COUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-0287	PID_INT_X	PID'INT'TERM(0)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0288	PID_INT_Y	PID'INT'TERM(1)	MANUVR'VARSCPL	AACS	SIGNED	16	0	
F-0289	PID_INT_Z	PID'INT'TERM(2)	MANUVR'VARSCPL	AACS	SIGNED	16	0	
F-0262	MHSApitchC11	PITCH'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0263	MHSApitchC22	PITCH'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0260	MHSA_PITCH	PITCH'ERROR	AACS2'MHSA'CPL	AACS	SIGNED	16	0	
F-0290	POS_ERR_X	POS'ERR(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0291	POS_ERR_Y	POS'ERR(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0292	POS_ERR_Z	POS'ERR(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0293	POS_INTEERR_X	POS'SUM(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0294	POS_INTEERR_Y	POS'SUM(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0295	POS_INTEERR_Z	POS'SUM(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-2131	PWR_DATA_W01	POWER'DATA	SUBCOM'CPL	PWR	DIGITAL	16	0	
F-2132	PWR_DATA_W07	POWER'DATA	SUBCOM'CPL	PWR	DIGITAL	16	0	
F-2133	PWR_DATA_W08	POWER'DATA	SUBCOM'CPL	PWR	DIGITAL	16	0	
F-2134	PWR_DATA_W09	POWER'DATA	SUBCOM'CPL	PWR	DIGITAL	16	0	
F-2135	PWR_DATA_W10	POWER'DATA	SUBCOM'CPL	PWR	DIGITAL	16	0	
F-2145	PWR_FLGS_WRD	POWER'FLAGS	POWER'MGMT'CPL	PWR	DIGITAL	16	0	F-2145
F-2220	PF00_B1B2Low	POWER'FLAGS(0)	POWER'MGMT'CPL	PWR	STATUS	1	0	F-2145/00
F-2221	PF01_B1LoSOC	POWER'FLAGS(1)	POWER'MGMT'CPL	PWR	STATUS	1	1	F-2145/01
F-2230	PF10_B2HiDcg	POWER'FLAGS(10)	POWER'MGMT'CPL	PWR	STATUS	1	10	F-2145/10
F-2231	PF11_B2cdrHi	POWER'FLAGS(11)	POWER'MGMT'CPL	PWR	STATUS	1	11	F-2145/11
F-2232	PF12_B2cdrLo	POWER'FLAGS(12)	POWER'MGMT'CPL	PWR	STATUS	1	12	F-2145/12
F-2233	PF13_B2T3rdW	POWER'FLAGS(13)	POWER'MGMT'CPL	PWR	STATUS	1	13	F-2145/13
F-2234	PF14_B2T2ndW	POWER'FLAGS(14)	POWER'MGMT'CPL	PWR	STATUS	1	14	F-2145/14
F-2235	PF15_B2T1stW	POWER'FLAGS(15)	POWER'MGMT'CPL	PWR	STATUS	1	15	F-2145/15
F-2222	PF02_B1HiDcg	POWER'FLAGS(2)	POWER'MGMT'CPL	PWR	STATUS	1	2	F-2145/02
F-2223	PF03_B1cdrHi	POWER'FLAGS(3)	POWER'MGMT'CPL	PWR	STATUS	1	3	F-2145/03
F-2224	PF04_B1cdrLo	POWER'FLAGS(4)	POWER'MGMT'CPL	PWR	STATUS	1	4	F-2145/04
F-2225	PF05_B1T3rdW	POWER'FLAGS(5)	POWER'MGMT'CPL	PWR	STATUS	1	5	F-2145/05
F-2226	PF06_B1T2ndW	POWER'FLAGS(6)	POWER'MGMT'CPL	PWR	STATUS	1	6	F-2145/06
F-2227	PF07_B1T1stW	POWER'FLAGS(7)	POWER'MGMT'CPL	PWR	STATUS	1	7	F-2145/07
F-2228	PF08_B1B2Chg	POWER'FLAGS(8)	POWER'MGMT'CPL	PWR	STATUS	1	8	F-2145/08
F-2229	PF09_B2LoSOC	POWER'FLAGS(9)	POWER'MGMT'CPL	PWR	STATUS	1	9	F-2145/09
F-2140	PWR_ENA_WORD	POWER'MGMT'ENABLE	POWER'MGMTPRESET	PWR	DIGITAL	16	0	F-2140
F-2200	PE00_B1TCntl	POWER'MGMT'ENABLE(0)	POWER'MGMTPRESET	PWR	STATUS	1	0	F-2140/00
F-2201	PE01_B2TCntl	POWER'MGMT'ENABLE(1)	POWER'MGMTPRESET	PWR	STATUS	1	1	F-2140/01
F-2210	PE10_CntAlrt	POWER'MGMT'ENABLE(10)	POWER'MGMTPRESET	PWR	STATUS	1	10	F-2140/10
F-2211	PE11_TlmVerf	POWER'MGMT'ENABLE(11)	POWER'MGMTPRESET	PWR	STATUS	1	11	F-2140/11
F-2212	PE12_IScript	POWER'MGMT'ENABLE(12)	POWER'MGMTPRESET	PWR	STATUS	1	12	F-2140/12
F-2213	PE13_EScript	POWER'MGMT'ENABLE(13)	POWER'MGMTPRESET	PWR	STATUS	1	13	F-2140/13
F-2202	PE02_B1Ifilt	POWER'MGMT'ENABLE(2)	POWER'MGMTPRESET	PWR	STATUS	1	2	F-2140/02
F-2203	PE03_B2Ifilt	POWER'MGMT'ENABLE(3)	POWER'MGMTPRESET	PWR	STATUS	1	3	F-2140/03
F-2204	PE04_B1ChCnt	POWER'MGMT'ENABLE(4)	POWER'MGMTPRESET	PWR	STATUS	1	4	F-2140/04
F-2205	PE05_B2ChCnt	POWER'MGMT'ENABLE(5)	POWER'MGMTPRESET	PWR	STATUS	1	5	F-2140/05

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2206	PE06_B1ChRtR	POWER'MGMT'ENABLE(6)	POWER'MGMT'PRESET	PWR	STATUS	1	6	F-2140/06
F-2207	PE07_B2ChRtR	POWER'MGMT'ENABLE(7)	POWER'MGMT'PRESET	PWR	STATUS	1	7	F-2140/07
F-2208	PE08_BCR_Sw1	POWER'MGMT'ENABLE(8)	POWER'MGMT'PRESET	PWR	STATUS	1	8	F-2140/08
F-2209	PE09_BCR_Sw2	POWER'MGMT'ENABLE(9)	POWER'MGMT'PRESET	PWR	STATUS	1	9	F-2140/09
F-2150	PWR_STAT_WRD	POWER'STATUS	POWER'MGMTCPL	PWR	DIGITAL	16	0	F-2150
F-2240	PS00_MC_Cmds	POWER'STATUS(0)	POWER'MGMTCPL	PWR	STATUS	1	0	F-2150/00
F-2241	PS01_B1_LwVT	POWER'STATUS(1)	POWER'MGMTCPL	PWR	STATUS	1	1	F-2150/01
F-2250	PS10_B2_CRR	POWER'STATUS(10)	POWER'MGMTCPL	PWR	STATUS	1	10	F-2150/10
F-2251	PS11_B2_Itlm	POWER'STATUS(11)	POWER'MGMTCPL	PWR	STATUS	1	11	F-2150/11
F-2252	PS12_B2_DTC	POWER'STATUS(12)	POWER'MGMTCPL	PWR	STATUS	1	12	F-2150/12
F-2253	PS13_B2_BCR	POWER'STATUS(13)	POWER'MGMTCPL	PWR	STATUS	1	13	F-2150/13
F-2254	PS14_B2_VT	POWER'STATUS(14)	POWER'MGMTCPL	PWR	STATUS	1	14	F-2150/14
F-2255	PS15_B2_Ttlm	POWER'STATUS(15)	POWER'MGMTCPL	PWR	STATUS	1	15	F-2150/15
F-2242	PS02_B1_CRR	POWER'STATUS(2)	POWER'MGMTCPL	PWR	STATUS	1	2	F-2150/02
F-2243	PS03_B1_Itlm	POWER'STATUS(3)	POWER'MGMTCPL	PWR	STATUS	1	3	F-2150/03
F-2244	PS04_B1_DTC	POWER'STATUS(4)	POWER'MGMTCPL	PWR	STATUS	1	4	F-2150/04
F-2245	PS05_B1_BCR	POWER'STATUS(5)	POWER'MGMTCPL	PWR	STATUS	1	5	F-2150/05
F-2246	PS06_B1_VT	POWER'STATUS(6)	POWER'MGMTCPL	PWR	STATUS	1	6	F-2150/06
F-2247	PS07_B1_Ttlm	POWER'STATUS(7)	POWER'MGMTCPL	PWR	STATUS	1	7	F-2150/07
F-2248	PS08_SUN_ON	POWER'STATUS(8)	POWER'MGMTCPL	PWR	STATUS	1	8	F-2150/08
F-2249	PS09_B2_LwVT	POWER'STATUS(9)	POWER'MGMTCPL	PWR	STATUS	1	9	F-2150/09
F-2280	POWER_TIME	POWERTIME	CYCEEXEC'CPL	PWR	UNSIGNED	16	0	
F-2565	DTC_PRI_STAT	PRI'DTCS'OFF	THERMAL'CPL	THRM	DIGITAL	16	0	F-2565
F-2720	DPS_EM-X	PRI'DTCS'OFF(0)	THERMAL'CPL	THRM	STATUS	1	0	F-2565/00
F-2721	DPS_PRS_CL2	PRI'DTCS'OFF(1)	THERMAL'CPL	THRM	STATUS	1	1	F-2565/01
F-2730	DPS_MHSA	PRI'DTCS'OFF(10)	THERMAL'CPL	THRM	STATUS	1	10	F-2565/10
F-2731	DPS_CSA	PRI'DTCS'OFF(11)	THERMAL'CPL	THRM	STATUS	1	11	F-2565/11
F-2732	DPS_SA+Y_GIM	PRI'DTCS'OFF(12)	THERMAL'CPL	THRM	STATUS	1	12	F-2565/12
F-2733	DPS_EM+Y	PRI'DTCS'OFF(13)	THERMAL'CPL	THRM	STATUS	1	13	F-2565/13
F-2734	DPS_PRS_CL1	PRI'DTCS'OFF(14)	THERMAL'CPL	THRM	STATUS	1	14	F-2565/14
F-2735	DPS_EM+X	PRI'DTCS'OFF(15)	THERMAL'CPL	THRM	STATUS	1	15	F-2565/15
F-2722	DPS_BATTERY	PRI'DTCS'OFF(2)	THERMAL'CPL	THRM	STATUS	1	2	F-2565/02
F-2723	DPS_THR_ENCL	PRI'DTCS'OFF(3)	THERMAL'CPL	THRM	STATUS	1	3	F-2565/03
F-2724	DPS_PROP_TNK	PRI'DTCS'OFF(4)	THERMAL'CPL	THRM	STATUS	1	4	F-2565/04
F-2725	DPS_SUPVlVCL	PRI'DTCS'OFF(5)	THERMAL'CPL	THRM	STATUS	1	5	F-2565/05
F-2726	DPS_MAIN_ENG	PRI'DTCS'OFF(6)	THERMAL'CPL	THRM	STATUS	1	6	F-2565/06
F-2727	DPS_TWT_HGgm	PRI'DTCS'OFF(7)	THERMAL'CPL	THRM	STATUS	1	7	F-2565/07
F-2728	DPS_IMU_TCA	PRI'DTCS'OFF(8)	THERMAL'CPL	THRM	STATUS	1	8	F-2565/08
F-2729	DPS_SA-Y_GIM	PRI'DTCS'OFF(9)	THERMAL'CPL	THRM	STATUS	1	9	F-2565/09
F-0439	SSA_PSUN_DIR	PROPSUNDIR	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0297	PROP_SUN_X	PROPSUN(0)	AACS2'CPL	AACS	SIGNED	16	0	
F-0298	PROP_SUN_Y	PROPSUN(1)	AACS2'CPL	AACS	SIGNED	16	0	
F-0299	PROP_SUN_Z	PROPSUN(2)	AACS2'CPL	AACS	SIGNED	16	0	
F-2101	PSE_CMDSENT1	PSE'CMD'SENT(1)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2102	PSE_CMDSENT2	PSE'CMD'SENT(2)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2103	PSE_CMDSENT3	PSE'CMD'SENT(3)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2104	PSE_CMDSENT4	PSE'CMD'SENT(4)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2105	PSE_CMDSENT5	PSE'CMD'SENT(5)	POWER'MGMTCPL	PWR	DIGITAL	16	0	
F-2106	PSE_CMDSENT6	PSE'CMD'SENT(6)	POWER'MGMTCPL	PWR	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2107	PSE_CMDSENT7	PSE'CMD'SENT(7)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2108	PSE_CMDSENT8	PSE'CMD'SENT(8)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2111	PSE_QFULL_CT	PSE'QUE'FULL'COUNT	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-1439	TC_PD_ISINIT	PULSE'DISCRETES'INITIATED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1440	TC_PD_ISTERM	PULSE'DISCRETE TERMINATED'COUN	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-0457	STRX_PULSECT	PULSE'SLIT'COUNT	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0305	QUAT_CORR_1	Q'B'FROM'E'CORR'FOR'A10(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0306	QUAT_CORR_2	Q'B'FROM'E'CORR'FOR'A10(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0307	QUAT_CORR_3	Q'B'FROM'E'CORR'FOR'A10(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0308	QUAT_CORR_4	Q'B'FROM'E'CORR'FOR'A10(3)	STAREX'CPL	AACS	SIGNED	16	0	
F-0311	QUAT_E2L_1	QTRN'L'FROM'E'(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0312	QUAT_E2L_2	QTRN'L'FROM'E'(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0313	QUAT_E2L_3	QTRN'L'FROM'E'(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0314	QUAT_E2L_4	QTRN'L'FROM'E'(3)	STAREX'CPL	AACS	SIGNED	16	0	
F-0266	MHSA_QD_BAD	QUAD'DATA'BAD	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	F-0266
F-0700	MHSA_QD_B_00	QUAD'DATA'BAD(0)	AACS2'MHSA'CPL	AACS	STATUS	1	0	F-0266/00
F-0701	MHSA_QD_B_01	QUAD'DATA'BAD(1)	AACS2'MHSA'CPL	AACS	STATUS	1	1	F-0266/01
F-0702	MHSA_QD_B_02	QUAD'DATA'BAD(2)	AACS2'MHSA'CPL	AACS	STATUS	1	2	F-0266/02
F-0703	MHSA_QD_B_03	QUAD'DATA'BAD(3)	AACS2'MHSA'CPL	AACS	STATUS	1	3	F-0266/03
F-0267	MHSA_QD_VIEW	QUAD'VIEWSPACE	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	F-0267
F-0710	MHSA_QD_V_00	QUAD'VIEWSPACE(0)	AACS2'MHSA'CPL	AACS	STATUS	1	0	F-0267/00
F-0711	MHSA_QD_V_01	QUAD'VIEWSPACE(1)	AACS2'MHSA'CPL	AACS	STATUS	1	1	F-0267/01
F-0712	MHSA_QD_V_02	QUAD'VIEWSPACE(2)	AACS2'MHSA'CPL	AACS	STATUS	1	2	F-0267/02
F-0713	MHSA_QD_V_03	QUAD'VIEWSPACE(3)	AACS2'MHSA'CPL	AACS	STATUS	1	3	F-0267/03
F-0301	QUAT_A2B_1	QUAT'B'FROM'A(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0302	QUAT_A2B_2	QUAT'B'FROM'A(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0303	QUAT_A2B_3	QUAT'B'FROM'A(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0321	QUAT_I2B_1	QUAT'B'FROM'I'BU(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0322	QUAT_I2B_2	QUAT'B'FROM'I'BU(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0323	QUAT_I2B_3	QUAT'B'FROM'I'BU(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0324	QUAT_I2B_4	QUAT'B'FROM'I'BU(3)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0428	SELT_Q_A2B_1	QUAT'BFROMA(0)	SELTSCPL	AACS	SIGNED	16	0	
F-0429	SELT_Q_A2B_2	QUAT'BFROMA(1)	SELTSCPL	AACS	SIGNED	16	0	
F-0430	SELT_Q_A2B_3	QUAT'BFROMA(2)	SELTSCPL	AACS	SIGNED	16	0	
F-0431	SELT_Q_R2B_1	QUAT'BFROMR(0)	SELTSCPL	AACS	SIGNED	16	0	
F-0432	SELT_Q_R2B_2	QUATBFROMR(1)	SELTSCPL	AACS	SIGNED	16	0	
F-0433	SELT_Q_R2B_3	QUATBFROMR(2)	SELTSCPL	AACS	SIGNED	16	0	
F-0434	SELT_Q_R2B_4	QUATBFROMR(3)	SELTSCPL	AACS	SIGNED	16	0	
F-0336	RTE_INTERR_X	RATE'SUM(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0337	RTE_INTERR_Y	RATE'SUM(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0338	RTE_INTERR_Z	RATE'SUM(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0327	RTEsmRAWBD_X	RAW'BODY'RATES(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0339	RTE_RAWBOD_X	RAW'BODY'RATES(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0328	RTEsmRAWBD_Y	RAW'BODY'RATES(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0340	RTE_RAWBOD_Y	RAW'BODY'RATES(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0329	RTEsmRAWBD_Z	RAW'BODY'RATES(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0341	RTE_RAWBOD_Z	RAW'BODY'RATES(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0446	SSA_SUNHDF_X	RAW'SUN'HEAD'FRAME(0)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0447	SSA_SUNHDF_Y	RAW'SUN'HEAD'FRAME(1)	AACS2'SSA'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0470	SUNVEC_RAW_X	RAW'SUN'VECTOR(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0471	SUNVEC_RAW_Y	RAW'SUN'VECTOR(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0472	SUNVEC_RAW_Z	RAW'SUN'VECTOR(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-1172	RDM_BADMSGCT	REDMSG'BADTYPE'COUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1350	RDM_TE_CT_20	REDMAN'TOTAL'ERROR'COUNT(20)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1351	RDM_TE_CT_21	REDMAN'TOTAL'ERROR'COUNT(21)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1352	RDM_TE_CT_22	REDMAN'TOTAL'ERROR'COUNT(22)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1353	RDM_TE_CT_23	REDMAN'TOTAL'ERROR'COUNT(23)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1354	RDM_TE_CT_24	REDMAN'TOTAL'ERROR'COUNT(24)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1355	RDM_TE_CT_25	REDMAN'TOTAL'ERROR'COUNT(25)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1356	RDM_TE_CT_26	REDMAN'TOTAL'ERROR'COUNT(26)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1357	RDM_TE_CT_27	REDMAN'TOTAL'ERROR'COUNT(27)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1358	RDM_TE_CT_28	REDMAN'TOTAL'ERROR'COUNT(28)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1359	RDM_TE_CT_29	REDMAN'TOTAL'ERROR'COUNT(29)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1360	RDM_TE_CT_30	REDMAN'TOTAL'ERROR'COUNT(30)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1361	RDM_TE_CT_31	REDMAN'TOTAL'ERROR'COUNT(31)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1362	RDM_TE_CT_32	REDMAN'TOTAL'ERROR'COUNT(32)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1363	RDM_TE_CT_33	REDMAN'TOTAL'ERROR'COUNT(33)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1364	RDM_TE_CT_34	REDMAN'TOTAL'ERROR'COUNT(34)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1365	RDM_TE_CT_35	REDMAN'TOTAL'ERROR'COUNT(35)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1366	RDM_TE_CT_36	REDMAN'TOTAL'ERROR'COUNT(36)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1367	RDM_TE_CT_37	REDMAN'TOTAL'ERROR'COUNT(37)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1368	RDM_TE_CT_38	REDMAN'TOTAL'ERROR'COUNT(38)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1369	RDM_TE_CT_39	REDMAN'TOTAL'ERROR'COUNT(39)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1370	RDM_TE_CT_40	REDMAN'TOTAL'ERROR'COUNT(40)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1371	RDM_TE_CT_41	REDMAN'TOTAL'ERROR'COUNT(41)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1372	RDM_TE_CT_42	REDMAN'TOTAL'ERROR'COUNT(42)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1373	RDM_TE_CT_43	REDMAN'TOTAL'ERROR'COUNT(43)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1374	RDM_TE_CT_44	REDMAN'TOTAL'ERROR'COUNT(44)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1375	RDM_TE_CT_45	REDMAN'TOTAL'ERROR'COUNT(45)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1376	RDM_TE_CT_46	REDMAN'TOTAL'ERROR'COUNT(46)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1377	RDM_TE_CT_47	REDMAN'TOTAL'ERROR'COUNT(47)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1378	RDM_TE_CT_48	REDMAN'TOTAL'ERROR'COUNT(48)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1379	RDM_TE_CT_49	REDMAN'TOTAL'ERROR'COUNT(49)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1380	RDM_TE_CT_50	REDMAN'TOTAL'ERROR'COUNT(50)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1381	RDM_TE_CT_51	REDMAN'TOTAL'ERROR'COUNT(51)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1382	RDM_TE_CT_52	REDMAN'TOTAL'ERROR'COUNT(52)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1383	RDM_TE_CT_53	REDMAN'TOTAL'ERROR'COUNT(53)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1384	RDM_TE_CT_54	REDMAN'TOTAL'ERROR'COUNT(54)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1385	RDM_TE_CT_55	REDMAN'TOTAL'ERROR'COUNT(55)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1386	RDM_TE_CT_56	REDMAN'TOTAL'ERROR'COUNT(56)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1387	RDM_TE_CT_57	REDMAN'TOTAL'ERROR'COUNT(57)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1388	RDM_TE_CT_58	REDMAN'TOTAL'ERROR'COUNT(58)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1389	RDM_TE_CT_59	REDMAN'TOTAL'ERROR'COUNT(59)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1390	RDM_TE_CT_60	REDMAN'TOTAL'ERROR'COUNT(60)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1391	RDM_TE_CT_61	REDMAN'TOTAL'ERROR'COUNT(61)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1392	RDM_TE_CT_62	REDMAN'TOTAL'ERROR'COUNT(62)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1393	RDM_TE_CT_63	REDMAN'TOTAL'ERROR'COUNT(63)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1394	RDM_TE_CT_64	REDMAN'TOTAL'ERROR'COUNT(64)	REDMAN'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1395	RDM_TE_CT_65	REDMAN'TOTAL'ERROR'COUNT(65)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1396	RDM_TE_CT_66	REDMAN'TOTAL'ERROR'COUNT(66)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1397	RDM_TE_CT_67	REDMAN'TOTAL'ERROR'COUNT(67)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1398	RDM_TE_CT_68	REDMAN'TOTAL'ERROR'COUNT(68)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1399	RDM_TE_CT_69	REDMAN'TOTAL'ERROR'COUNT(69)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1400	RDM_TE_CT_70	REDMAN'TOTAL'ERROR'COUNT(70)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1401	RDM_TE_CT_71	REDMAN'TOTAL'ERROR'COUNT(71)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1402	RDM_TE_CT_72	REDMAN'TOTAL'ERROR'COUNT(72)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1403	RDM_TE_CT_73	REDMAN'TOTAL'ERROR'COUNT(73)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1404	RDM_TE_CT_74	REDMAN'TOTAL'ERROR'COUNT(74)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1405	RDM_TE_CT_75	REDMAN'TOTAL'ERROR'COUNT(75)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-0264	MHSARollC11	ROLL'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0265	MHSARollC22	ROLL'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0261	MHSA_ROLL	ROLLERROR	AACS2'MHSA'CPL	AACS	SIGNED	16	0	
F-1070	EIS_RT_FAULT	RUNTIME'FAULT'REGISTER	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-0760	RWA_X_SPDsgn	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0345/00
F-0761	RWA_X_ID	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0345/01
F-0763	RWA_X_PWR_ST	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0345/03
F-0764	RWA_X_PWRLIM	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0345/04
F-0765	RWA_X_SPDMAG	RWA'RAWWORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0345/05
F-0770	RWA_Y_SPDsgn	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0346/00
F-0771	RWA_Y_ID	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0346/01
F-0773	RWA_Y_PWR_ST	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0346/03
F-0774	RWA_Y_PWRLIM	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0346/04
F-0775	RWA_Y_SPDMAG	RWA'RAWWORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0346/05
F-0780	RWA_Z_SPDsgn	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0347/00
F-0781	RWA_Z_ID	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0347/01
F-0783	RWA_Z_PWR_ST	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0347/03
F-0784	RWA_Z_PWRLIM	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0347/04
F-0785	RWA_Z_SPDMAG	RWA'RAWWORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0347/05
F-0790	RWA_S_SPDsgn	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0348/00
F-0791	RWA_S_ID	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0348/01
F-0793	RWA_S_PWR_ST	RWA'RAWWORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0348/03
F-0794	RWA_S_PWRLIM	RWA'RAWWORD(0)	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0348/04
F-0795	RWA_S_SPDMAG	RWA'RAWWORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0348/05
F-0345	RWA_RAW_X	RWA'RAWWORD(1)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0345
F-0346	RWA_RAW_Y	RWA'RAWWORD(2)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0346
F-0347	RWA_RAW_Z	RWA'RAWWORD(3)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0347
F-0348	RWA_RAW_S	RWA'RAWWORD(0)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0348
F-0490	STRX_ATGAINX	S'ATT'GAIN(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0491	STRX_ATGAINY	S'ATT'GAIN(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0492	STRX_ATGAINZ	S'ATT'GAIN(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0493	S_ATT_PROD_0	S'ATT'PROD(0)		AACS	SIGNED	16	0	
F-0495	STRX_BSGAINX	S'BIAS'GAIN(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0496	STRX_BSGAINY	S'BIAS'GAIN(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0497	STRX_BSGAINZ	S'BIAS'GAIN(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0498	S_BIAS_PROD0	S'BIAS'PROD(0)		AACS	SIGNED	16	0	
F-0360	SAM_AZ_ANG	SAM'AZI'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0361	SAM_AZ_CMD	SAM'AZI'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0363	SAM_AZ_TRG	SAM'AZI'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0375	SAM_CNTRL_ST	SAM'CONTROL'STATUS	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0377	SAM_EL_ANG	SAMELE'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0378	SAM_EL_CMD	SAMELE'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0380	SAM_EL_TRG	SAMELE'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0381	SAM_NORM_X	SAM'NORMAL(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0382	SAM_NORM_Y	SAM'NORMAL(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0383	SAM_NORM_Z	SAM'NORMAL(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0362	SAM_AZ_POS	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0379	SAM_EL_POS	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0385	SAM_STATS	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0385
F-0800	SAM_STATS_00	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0385/00
F-0801	SAM_STATS_01	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0385/01
F-0802	SAM_STATS_02	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0385/02
F-0803	SAM_STATS_03	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	3	F-0385/03
F-0805	SAM_STATS_05	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0385/05
F-0806	SAM_STATS_06	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0385/06
F-0807	SAM_STATS_07	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	2	7	F-0385/07
F-0809	SAM_STATS_09	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0385/09
F-0810	SAM_STATS_10	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0385/10
F-0811	SAM_STATS_11	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	11	F-0385/11
F-0813	SAM_STATS_13	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0385/13
F-0814	SAM_STATS_14	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0385/14
F-0815	SAM_STATS_15	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	1	15	F-0385/15
F-0388	SAM_TIMEOUT	SAMSIB'TIMEOUT	CYCEEC'CPL	AACS	STATUS	4	12	
F-0390	SAP_AZ_ANG	SAP'AZI'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0391	SAP_AZ_CMD	SAP'AZI'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0393	SAP_AZ_TRG	SAP'AZI'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0405	SAP_CNTRL_ST	SAP'CONTROL'STATUS	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0407	SAP_EL_ANG	SAP'ELE'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0408	SAP_EL_CMD	SAP'ELE'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0410	SAP_EL_TRG	SAP'ELE'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0411	SAP_NORM_X	SAP'NORMAL(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0412	SAP_NORM_Y	SAP'NORMAL(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0413	SAP_NORM_Z	SAP'NORMAL(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0392	SAP_AZ_POS	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0409	SAP_EL_POS	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0415	SAP_STATS	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0415
F-0820	SAP_STATS_00	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0415/00
F-0821	SAP_STATS_01	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0415/01
F-0822	SAP_STATS_02	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0415/02
F-0823	SAP_STATS_03	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	3	F-0415/03
F-0825	SAP_STATS_05	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0415/05
F-0826	SAP_STATS_06	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0415/06
F-0827	SAP_STATS_07	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	2	7	F-0415/07
F-0829	SAP_STATS_09	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0415/09
F-0830	SAP_STATS_10	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0415/10
F-0831	SAP_STATS_11	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	11	F-0415/11
F-0833	SAP_STATS_13	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0415/13

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0834	SAP_STATS_14	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0415/14
F-0835	SAP_STATS_15	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	1	15	F-0415/15
F-0418	SAP_TIMEOUT	SAP'SIB'TIMEOUT	CYCEEXEC'CPL	AACS	STATUS	4	12	
F-1016	CE_SC_STATE	SC'STATE	CYCEEXEC'CPL	CDH	STATUS	4	12	
F-1013	CE_SCP10TIME	SCP'10'TIME	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1460	UPL_SCPEXCNT	SCP'COMMAND'EXECUTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1461	UPL_SCPREJECT	SCP'COMMAND'REJECTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1014	CE_SCP_ID	SCP'ID	CYCEEXEC'CPL	CDH	STATUS	4	12	
F-1015	CE_SCP_TIME	SCP'TIME	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1446	TC_SCRIPT_ADR	SCRIPTBUFFER'ADDRESS	TIMEDCMD'PRESET	CDH	DIGITAL	16	0	
F-1447	TC_SCRIPT_SIZ	SCRIPTBUFFER'SIZE	TIMEDCMD'PRESET	CDH	UNSIGNED	16	0	
F-2121	SCSC_DAY_CT	SCSC'DAY'CNT	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2122	SCSC_NTE_CT	SCSC'NITE'CNT	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-1071	EIS_SEF_ERRW	SEFERROR'REGISTER	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-1073	EIS_SEF_PgOF	SEFOFFSET'ADDRESS	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-1072	EIS_SEF_PAGE	SEFPAGE'NUMBER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1060	EIS_1BITERCT	SEFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-0427	SELT_PTCH_ER	SELTS'PITCH	SELTS'CPL	AACS	SIGNED	16	0	
F-0435	SELT_ROLL_ER	SELTS'ROLL	SELTS'CPL	AACS	SIGNED	16	0	
F-0436	SELT_YAW_ER	SELTS'YAW	SELTS'CPL	AACS	SIGNED	16	0	
F-1462	UPL_SEQERRCT	SEQUENCE'ERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1463	UPL_SINGERCT	SINGLE'ERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-0461	STRX_S_RESET	SIS'RESET'COUNT	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0458	STRX_SLIT_ID	SLIT'ID	STAREX'CPL	AACS	UNSIGNED	16	0	
F-1420	SMOEX_ENABLs	SMOEXEC'ENABLES	SMOEXEC'PRESET	CDH	DIGITAL	16	0	
F-2123	SOLAR_DAY_CT	SOLA'DAY'CNT	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2124	SOLAR_NTE_CT	SOLA'NITE'CNT	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-1049	EDF_SCLKTIME	SPACECRAFT'TIME	SUBCOM'CPL	CDH	UNSIGNED	32	0	
F-1074	EIS_SPR_INT	SPARISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-0444	SSA_STATUS	SSA'STATUS	AACS2'SSA'CPL	AACS	STATUS	4	12	
F-0438	SSA_DOT_PRD	SSA'VEC'DOTPRDCT	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0180	GYbiasEST_XA	ST'ST'BIASES(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0182	GYbiasEST_YA	ST'ST'BIASES(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0184	GYbiasEST_ZA	ST'ST'BIASES(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0181	GYbiasEST_XB	ST'ST'BIASES(3)	STAREX'CPL	AACS	SIGNED	16	0	
F-0183	GYbiasEST_YB	ST'ST'BIASES(4)	STAREX'CPL	AACS	SIGNED	16	0	
F-0185	GYbiasEST_ZB	ST'ST'BIASES(5)	STAREX'CPL	AACS	SIGNED	16	0	
F-0552	STRX_DOTLOS	STAR'DOT'LOS	STAREX'CPL	AACS	SIGNED	16	0	
F-0553	STRX_DOTPROD	STAR'DOT'PROD	STAREX'CPL	AACS	SIGNED	16	0	
F-0459	STRX_STAR_ID	STAR'ID'NO	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0460	STRX_STATE	STAREX'STATE	STAREX'CPL	AACS	STATUS	4	12	
F-0464	STRX_WORD	STAREX'STATUS	STAREX'CPL	AACS	DIGITAL	16	0	
F-0448	STIME	STIME	STAREX'CPL	AACS	SIGNED	16	0	
F-1441	TC_SBUS_EXCT	STORED'BUS'CMD'EXECUTED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1442	TC_SBUS_RJCT	STORED'BUS'CMD'REJECTED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1438	TC_PDS_CMDEX	STORED'PDS'CMD'EXECUTED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1443	TC_SCMD_DATA	STRD'CMD'DATA	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1444	TC_SCMD_OPCODE	STRD'CMD'OPCODE	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1445	TC_SCMD_SORS	STRD'CMD'SOURCE	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0560	STRX_SC_SLIT	SUCCESS'SLIT	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0475	SUN_CLOCK	SUNCLOCK'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0476	SUN_SUBMODE	SUN'CONTROL'SUBMODE	AACS2'SUN'CNTRL'CPL	AACS	STATUS	4	12	
F-0477	SUN_SUBM_SM	SUN'CONTROL'SUBMODE	SM'AACS2'CPL	AACS	STATUS	4	12	
F-1348	RDMN_SW_SUM1	SWITCH'SUMMARY	REDMAN'CPL	CDH	DIGITAL	16	0	F-1348
F-1349	RDMN_SW_SUM2	SWITCH'SUMMARY	REDMAN'CPL	CDH	DIGITAL	16	0	F-1349
F-1640	RDS1_SW_BUS	SWITCH'SUMMARY(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1348/00
F-1700	RDS2_TNKOP1L	SWITCH'SUMMARY(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1349/00
F-1641	RDS1_SW_SSA	SWITCH'SUMMARY(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1348/01
F-1701	RDS2_SPARE01	SWITCH'SUMMARY(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1349/01
F-1650	RDS1_SW_HGA	SWITCH'SUMMARY(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1348/10
F-1710	RDS2_TWTAFIL	SWITCH'SUMMARY(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1349/10
F-1651	RDS1_SW_B11	SWITCH'SUMMARY(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1348/11
F-1711	RDS2_SPARE11	SWITCH'SUMMARY(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1349/11
F-1652	RDS1_SW_B12	SWITCH'SUMMARY(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1348/12
F-1712	RDS2_SPARE12	SWITCH'SUMMARY(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1349/12
F-1653	RDS1_SW_B13	SWITCH'SUMMARY(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1348/13
F-1713	RDS2_SPARE13	SWITCH'SUMMARY(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1349/13
F-1654	RDS1_SW_B14	SWITCH'SUMMARY(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1348/14
F-1714	RDS2_SPARE14	SWITCH'SUMMARY(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1349/14
F-1655	RDS1_SW_B15	SWITCH'SUMMARY(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1348/15
F-1715	RDS2_SPARE15	SWITCH'SUMMARY(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1349/15
F-1642	RDS1_SW_IMU	SWITCH'SUMMARY(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1348/02
F-1702	RDS2_TNKOP2L	SWITCH'SUMMARY(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1349/02
F-1643	RDS1_SW_EDF	SWITCH'SUMMARY(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1348/03
F-1703	RDS2_SPARE03	SWITCH'SUMMARY(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1349/03
F-1644	RDS1_SW_XSU	SWITCH'SUMMARY(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1348/04
F-1704	RDS2_TNKUPL	SWITCH'SUMMARY(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1349/04
F-1645	RDS1_SW_RPA	SWITCH'SUMMARY(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1348/05
F-1705	RDS2_SW2REA	SWITCH'SUMMARY(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1349/05
F-1646	RDS1_SW_MOT	SWITCH'SUMMARY(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1348/06
F-1706	RDS2_SW2SUNA	SWITCH'SUMMARY(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1349/06
F-1647	RDS1_SW_PSE	SWITCH'SUMMARY(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1348/07
F-1707	RDS2_SW_REA	SWITCH'SUMMARY(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1349/07
F-1648	RDS1_SW_SAP	SWITCH'SUMMARY(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1348/08
F-1708	RDS2_REA1ISO	SWITCH'SUMMARY(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1349/08
F-1649	RDS1_SW_SAM	SWITCH'SUMMARY(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1348/09
F-1709	RDS2_REA2ISO	SWITCH'SUMMARY(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1349/09
F-0480	SYST_MOM_X	SYSTMOM	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0481	SYST_MOM_Y	SYSTMOM	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0482	SYST_MOM_Z	SYSTMOM	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-1017	CE_TASK_TOCT	TASKTIMEOUT'FI'COUNT	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-3050	TLCM_SEQ_TD	TELECOM'CMD'SEQTIME'DELAY	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-3046	TLCM_PARM	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	DIGITAL	16	0	F-3046
F-3240	TDP_MOTrcvTL	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	0	F-3046/00
F-3241	TDP_MOTexcTL	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	1	F-3046/01
F-3242	TDP_RPA_TLM	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	2	F-3046/02
F-3243	TDP_PDS_TLM	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	3	F-3046/03
F-3244	TDP_RFinSW_T	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	4	F-3046/04

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-3245	TDP_RFouSW_T	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	5	F-3046/05
F-3246	TDP_SPARE06	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	UNSIGNED	1	6	F-3046/06
F-3247	TDP_SPARE07	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	UNSIGNED	1	7	F-3046/07
F-3248	TDP_MOTequST	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	8	F-3046/08
F-3250	TDP_RPAequST	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	10	F-3046/10
F-3252	TDP_RFinSW_S	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	12	F-3046/12
F-3254	TDP_RFouSW_S	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	14	F-3046/14
F-3040	TLCM_DSW1	TELECOM'DISCRETES	TELECOM'CPL	TLCM	DIGITAL	16	0	F-3040
F-3200	TD1_UPL_ANT	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	0	F-3040/00
F-3201	TD1_SEL_MOT	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	1	F-3040/01
F-3202	TD1_SEL_RPA	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	2	F-3040/02
F-3203	TD1_SEL_XSU	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	3	F-3040/03
F-3204	TD1_MOT_EXC	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	4	F-3040/04
F-3205	TD1_RPA_BEAM	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	5	F-3040/05
F-3206	TD1_TLCM_CMD	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	6	F-3040/06
F-3207	TD1_BEAM_UP	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	7	F-3040/07
F-3208	TD1_TLCM_SUB	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	8	F-3040/08
F-3209	TD1_MOT_CHKD	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	9	F-3040/09
F-3210	TD1_MOToutOK	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	10	F-3040/10
F-3211	TD1_RPA_CHKD	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	11	F-3040/11
F-3212	TD1_USO_ENAB	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	12	F-3040/12
F-3213	TD1_PDSnotOK	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	13	F-3040/13
F-3214	TD1_SPARE14	TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	14	F-3040/14
F-3215	TD1_SPARE15	TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	15	F-3040/15
F-3044	TLCM_MODE	TELECOM'MODE	TELECOM'CPL	TLCM	STATUS	3	13	
F-3051	TLCM_SUBCOM1	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3052	TLCM_SUBCOM2	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3053	TLCM_SUBCOM3	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3054	TLCM_SUBCOM4	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3055	TLCM_SUBCOM5	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-0040	CSA_AS_1	TELEM'CSA(0)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0041	CSA_AS_2	TELEM'CSA(1)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0042	CSA_AS_3	TELEM'CSA(2)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0043	CSA_AS_4	TELEM'CSA(3)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0044	CSA_AS_5	TELEM'CSA(4)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0045	CSA_AS_6	TELEM'CSA(5)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0046	CSA_AS_7	TELEM'CSA(6)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0047	CSA_AS_8	TELEM'CSA(7)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0048	CSA_AS_9	TELEM'CSA(8)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0049	CSA_AS_10	TELEM'CSA(9)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0110	GY_X1_X3_1	TELEM'GYRO'X1(0)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0111	GY_X1_X3_2	TELEM'GYRO'X1(1)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0112	GY_X1_X3_3	TELEM'GYRO'X1(2)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0113	GY_X1_X3_4	TELEM'GYRO'X1(3)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0114	GY_X1_X3_5	TELEM'GYRO'X1(4)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0115	GY_X1_X3_6	TELEM'GYRO'X1(5)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0116	GY_X1_X3_7	TELEM'GYRO'X1(6)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0117	GY_X1_X3_8	TELEM'GYRO'X1(7)	CYCEEXECPL	AACS	DIGITAL	16	0	
F-0118	GY_X1_X3_9	TELEM'GYRO'X1(8)	CYCEEXECPL	AACS	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0119	GY_X1_X3_10	TELEM'GYRO'X1(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0120	GY_X3_AX_1	TELEM'GYRO'X3(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0121	GY_X3_AX_2	TELEM'GYRO'X3(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0122	GY_X3_AX_3	TELEM'GYRO'X3(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0123	GY_X3_AX_4	TELEM'GYRO'X3(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0124	GY_X3_AX_5	TELEM'GYRO'X3(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0125	GY_X3_AX_6	TELEM'GYRO'X3(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0126	GY_X3_AX_7	TELEM'GYRO'X3(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0127	GY_X3_AX_8	TELEM'GYRO'X3(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0128	GY_X3_AX_9	TELEM'GYRO'X3(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0129	GY_X3_AX_10	TELEM'GYRO'X3(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0130	GY_Y1_Y2_1	TELEM'GYRO'Y1(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0131	GY_Y1_Y2_2	TELEM'GYRO'Y1(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0132	GY_Y1_Y2_3	TELEM'GYRO'Y1(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0133	GY_Y1_Y2_4	TELEM'GYRO'Y1(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0134	GY_Y1_Y2_5	TELEM'GYRO'Y1(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0135	GY_Y1_Y2_6	TELEM'GYRO'Y1(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0136	GY_Y1_Y2_7	TELEM'GYRO'Y1(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0137	GY_Y1_Y2_8	TELEM'GYRO'Y1(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0138	GY_Y1_Y2_9	TELEM'GYRO'Y1(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0139	GY_Y1_Y2_10	TELEM'GYRO'Y1(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0140	GY_Y2_AY_1	TELEM'GYRO'Y2(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0141	GY_Y2_AY_2	TELEM'GYRO'Y2(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0142	GY_Y2_AY_3	TELEM'GYRO'Y2(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0143	GY_Y2_AY_4	TELEM'GYRO'Y2(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0144	GY_Y2_AY_5	TELEM'GYRO'Y2(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0145	GY_Y2_AY_6	TELEM'GYRO'Y2(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0146	GY_Y2_AY_7	TELEM'GYRO'Y2(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0147	GY_Y2_AY_8	TELEM'GYRO'Y2(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0148	GY_Y2_AY_9	TELEM'GYRO'Y2(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0149	GY_Y2_AY_10	TELEM'GYRO'Y2(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0150	GY_Z2_Z3_1	TELEM'GYRO'Z2(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0151	GY_Z2_Z3_2	TELEM'GYRO'Z2(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0152	GY_Z2_Z3_3	TELEM'GYRO'Z2(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0153	GY_Z2_Z3_4	TELEM'GYRO'Z2(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0154	GY_Z2_Z3_5	TELEM'GYRO'Z2(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0155	GY_Z2_Z3_6	TELEM'GYRO'Z2(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0156	GY_Z2_Z3_7	TELEM'GYRO'Z2(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0157	GY_Z2_Z3_8	TELEM'GYRO'Z2(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0158	GY_Z2_Z3_9	TELEM'GYRO'Z2(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0159	GY_Z2_Z3_10	TELEM'GYRO'Z2(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0160	GY_Z3_AZ_1	TELEM'GYRO'Z3(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0161	GY_Z3_AZ_2	TELEM'GYRO'Z3(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0162	GY_Z3_AZ_3	TELEM'GYRO'Z3(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0163	GY_Z3_AZ_4	TELEM'GYRO'Z3(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0164	GY_Z3_AZ_5	TELEM'GYRO'Z3(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0165	GY_Z3_AZ_6	TELEM'GYRO'Z3(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0166	GY_Z3_AZ_7	TELEM'GYRO'Z3(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0167	GY_Z3_AZ_8	TELEM'GYRO'Z3(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0168	GY_Z3_AZ_9	TELEM'GYRO'Z3(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0169	GY_Z3_AZ_10	TELEM'GYRO'Z3(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0210	IMU_ST_WD1	TELEM'IMU'STATUS	CYCEEXEC'CPL	AACS	DIGITAL	16	0	F-0210
F-0640	IMU_DCsupSEL	TELEM'IMU'STATUS(0,0)	CYCEEXEC'CPL	AACS	STATUS	1	0	F-0210/00
F-0641	IMU_ACsupSEL	TELEM'IMU'STATUS(0,1)	CYCEEXEC'CPL	AACS	STATUS	1	1	F-0210/01
F-0650	IMU_Xchn_SEL	TELEM'IMU'STATUS(0,10)	CYCEEXEC'CPL	AACS	STATUS	1	10	F-0210/10
F-0651	IMU_Zchn_SEL	TELEM'IMU'STATUS(0,11)	CYCEEXEC'CPL	AACS	STATUS	1	11	F-0210/11
F-0652	IMU_DATA_SEL	TELEM'IMU'STATUS(0,12)	CYCEEXEC'CPL	AACS	STATUS	1	12	F-0210/12
F-0653	IMU_G3_STAT	TELEM'IMU'STATUS(0,13)	CYCEEXEC'CPL	AACS	STATUS	1	13	F-0210/13
F-0654	IMU_G2_STAT	TELEM'IMU'STATUS(0,14)	CYCEEXEC'CPL	AACS	STATUS	1	14	F-0210/14
F-0655	IMU_G1_STAT	TELEM'IMU'STATUS(0,15)	CYCEEXEC'CPL	AACS	STATUS	1	15	F-0210/15
F-0642	CS_TRI_B_SEL	TELEM'IMU'STATUS(0,2)	CYCEEXEC'CPL	AACS	STATUS	1	2	F-0210/02
F-0643	CS_TRI_A_SEL	TELEM'IMU'STATUS(0,3)	CYCEEXEC'CPL	AACS	STATUS	1	3	F-0210/03
F-0644	IMU_TEST_SEL	TELEM'IMU'STATUS(0,4)	CYCEEXEC'CPL	AACS	STATUS	1	4	F-0210/04
F-0645	IMU_RATE_SEL	TELEM'IMU'STATUS(0,5)	CYCEEXEC'CPL	AACS	STATUS	1	5	F-0210/05
F-0646	IMU_STW1_06	TELEM'IMU'STATUS(0,6)	CYCEEXEC'CPL	AACS	UNSIGNED	1	6	F-0210/06
F-0647	IMU_STW1_07	TELEM'IMU'STATUS(0,7)	CYCEEXEC'CPL	AACS	UNSIGNED	1	7	F-0210/07
F-0648	IMU_FORMAT	TELEM'IMU'STATUS(0,8)	CYCEEXEC'CPL	AACS	STATUS	1	8	F-0210/08
F-0649	IMU_Ychn_SEL	TELEM'IMU'STATUS(0,9)	CYCEEXEC'CPL	AACS	STATUS	1	9	F-0210/09
F-0211	IMU_ST_WD2	TELEM'IMU'STATUS(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0212	IMU_ST_WD3	TELEM'IMU'STATUS(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0213	IMU_ST_WD4	TELEM'IMU'STATUS(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0214	IMU_ST_WD5	TELEM'IMU'STATUS(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0215	IMU_ST_WD6	TELEM'IMU'STATUS(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0216	IMU_ST_WD7	TELEM'IMU'STATUS(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0217	IMU_ST_WD8	TELEM'IMU'STATUS(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0218	IMU_ST_WD9	TELEM'IMU'STATUS(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0219	IMU_ST_WD10	TELEM'IMU'STATUS(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0442	SSA_RAW_DET	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	DIGITAL	16	0	F-0442
F-0860	SSA_RAW_D_00	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	UNSIGNED	8	0	F-0442/00
F-0868	SSA_MODE_SEL	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	1	8	F-0442/08
F-0869	SSA_SUN_SEEN	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	1	9	F-0442/09
F-0870	SSA_CMD_DET	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	3	10	F-0442/10
F-0873	SSA_AUTO_DET	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	3	13	F-0442/13
F-0440	SSA_RAW_RET	TELEM'RETICLE	CYCEEXEC'CPL	AACS	DIGITAL	16	0	F-0440
F-0840	SSA_RET_A_GC	TELEM'RETICLE	CYCEEXEC'CPL	AACS	UNSIGNED	8	0	F-0440/00
F-0848	SSA_RET_B_GC	TELEM'RETICLE	CYCEEXEC'CPL	AACS	UNSIGNED	8	8	F-0440/08
F-2570	DTC_WARN_FLG	THERM'DTC'STATUS	THERMAL'CPL	THRML	DIGITAL	16	0	F-2570
F-2740	DWF_EM-X	THERM'DTC'STATUS(0)	THERMAL'CPL	THRML	STATUS	1	0	F-2570/00
F-2741	DWF_PRS_CL2	THERM'DTC'STATUS(1)	THERMAL'CPL	THRML	STATUS	1	1	F-2570/01
F-2750	DWF_MHSA	THERM'DTC'STATUS(10)	THERMAL'CPL	THRML	STATUS	1	10	F-2570/10
F-2751	DWF_CSA	THERM'DTC'STATUS(11)	THERMAL'CPL	THRML	STATUS	1	11	F-2570/11
F-2752	DWF_SA+Y_GIM	THERM'DTC'STATUS(12)	THERMAL'CPL	THRML	STATUS	1	12	F-2570/12
F-2753	DWF_EM+Y	THERM'DTC'STATUS(13)	THERMAL'CPL	THRML	STATUS	1	13	F-2570/13
F-2754	DWF_PRS_CL1	THERM'DTC'STATUS(14)	THERMAL'CPL	THRML	STATUS	1	14	F-2570/14
F-2755	DWF_EM+X	THERM'DTC'STATUS(15)	THERMAL'CPL	THRML	STATUS	1	15	F-2570/15
F-2742	DWF_BATTERY	THERM'DTC'STATUS(2)	THERMAL'CPL	THRML	STATUS	1	2	F-2570/02
F-2743	DWF_THR_ENCL	THERM'DTC'STATUS(3)	THERMAL'CPL	THRML	STATUS	1	3	F-2570/03
F-2744	DWF_PROP_TNK	THERM'DTC'STATUS(4)	THERMAL'CPL	THRML	STATUS	1	4	F-2570/04

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2745	DWF_SUPvlvCL	THERM'DTC'STATUS(5)	THERMAL'CPL	THRM	STATUS	1	5	F-2570/05
F-2746	DWF_MAIN_ENG	THERM'DTC'STATUS(6)	THERMAL'CPL	THRM	STATUS	1	6	F-2570/06
F-2747	DWF_TWT_HGgm	THERM'DTC'STATUS(7)	THERMAL'CPL	THRM	STATUS	1	7	F-2570/07
F-2748	DWF_IMU_TCA	THERM'DTC'STATUS(8)	THERMAL'CPL	THRM	STATUS	1	8	F-2570/08
F-2749	DWF_SA-Y_GIM	THERM'DTC'STATUS(9)	THERMAL'CPL	THRM	STATUS	1	9	F-2570/09
F-2560	DTC_ENABLES	THERMAL'PARAMETERS	THERMAL'PRESET	THRM	DIGITAL	16	0	
F-0278	MOM_WARMUP_T	THRUSTER'WARM/UPTIME	AACS2'MOMUNL'PRESET	AACS	UNSIGNED	16	0	
F-1065	EIS_ISR_TIMA	TIMAIRS'COUNTER	ERROR'INTSTATS'CPL	CDH	UNSIGNED	16	0	
F-1018	CE_TIME_DIFF	TIME'DIFF	CYCEXECCPL	CDH	SIGNED	32	0	
F-1270	RDM_LETIME20	TIME'OF'LAST'ERROR(20)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1271	RDM_LETIME21	TIME'OF'LAST'ERROR(21)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1272	RDM_LETIME22	TIME'OF'LAST'ERROR(22)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1273	RDM_LETIME23	TIME'OF'LAST'ERROR(23)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1274	RDM_LETIME24	TIME'OF'LAST'ERROR(24)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1275	RDM_LETIME25	TIME'OF'LAST'ERROR(25)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1276	RDM_LETIME26	TIME'OF'LAST'ERROR(26)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1277	RDM_LETIME27	TIME'OF'LAST'ERROR(27)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1278	RDM_LETIME28	TIME'OF'LAST'ERROR(28)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1279	RDM_LETIME29	TIME'OF'LAST'ERROR(29)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1280	RDM_LETIME30	TIME'OF'LAST'ERROR(30)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1281	RDM_LETIME31	TIME'OF'LAST'ERROR(31)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1282	RDM_LETIME32	TIME'OF'LAST'ERROR(32)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1283	RDM_LETIME33	TIME'OF'LAST'ERROR(33)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1284	RDM_LETIME34	TIME'OF'LAST'ERROR(34)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1285	RDM_LETIME35	TIME'OF'LAST'ERROR(35)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1286	RDM_LETIME36	TIME'OF'LAST'ERROR(36)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1287	RDM_LETIME37	TIME'OF'LAST'ERROR(37)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1288	RDM_LETIME38	TIME'OF'LAST'ERROR(38)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1289	RDM_LETIME39	TIME'OF'LAST'ERROR(39)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1290	RDM_LETIME40	TIME'OF'LAST'ERROR(40)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1291	RDM_LETIME41	TIME'OF'LAST'ERROR(41)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1292	RDM_LETIME42	TIME'OF'LAST'ERROR(42)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1293	RDM_LETIME43	TIME'OF'LAST'ERROR(43)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1294	RDM_LETIME44	TIME'OF'LAST'ERROR(44)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1295	RDM_LETIME45	TIME'OF'LAST'ERROR(45)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1296	RDM_LETIME46	TIME'OF'LAST'ERROR(46)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1297	RDM_LETIME47	TIME'OF'LAST'ERROR(47)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1298	RDM_LETIME48	TIME'OF'LAST'ERROR(48)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1299	RDM_LETIME49	TIME'OF'LAST'ERROR(49)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1300	RDM_LETIME50	TIME'OF'LAST'ERROR(50)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1301	RDM_LETIME51	TIME'OF'LAST'ERROR(51)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1302	RDM_LETIME52	TIME'OF'LAST'ERROR(52)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1303	RDM_LETIME53	TIME'OF'LAST'ERROR(53)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1304	RDM_LETIME54	TIME'OF'LAST'ERROR(54)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1305	RDM_LETIME55	TIME'OF'LAST'ERROR(55)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1306	RDM_LETIME56	TIME'OF'LAST'ERROR(56)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1307	RDM_LETIME57	TIME'OF'LAST'ERROR(57)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1308	RDM_LETIME58	TIME'OF'LAST'ERROR(58)	REDMANCPL	CDH	UNSIGNED	32	0	
F-1309	RDM_LETIME59	TIME'OF'LAST'ERROR(59)	REDMANCPL	CDH	UNSIGNED	32	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1310	RDM_LETIME60	TIME'OF'LAST'ERROR(60)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1311	RDM_LETIME61	TIME'OF'LAST'ERROR(61)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1312	RDM_LETIME62	TIME'OF'LAST'ERROR(62)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1313	RDM_LETIME63	TIME'OF'LAST'ERROR(63)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1314	RDM_LETIME64	TIME'OF'LAST'ERROR(64)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1315	RDM_LETIME65	TIME'OF'LAST'ERROR(65)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1316	RDM_LETIME66	TIME'OF'LAST'ERROR(66)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1317	RDM_LETIME67	TIME'OF'LAST'ERROR(67)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1318	RDM_LETIME68	TIME'OF'LAST'ERROR(68)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1319	RDM_LETIME69	TIME'OF'LAST'ERROR(69)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1320	RDM_LETIME70	TIME'OF'LAST'ERROR(70)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1321	RDM_LETIME71	TIME'OF'LAST'ERROR(71)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1322	RDM_LETIME72	TIME'OF'LAST'ERROR(72)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1323	RDM_LETIME73	TIME'OF'LAST'ERROR(73)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1324	RDM_LETIME74	TIME'OF'LAST'ERROR(74)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1432	TC_DISCRETES	TIMEDCMD'DISCRETES	TIMEDCMD'PRESET	CDH	DIGITAL	16	0	
F-1448	TC_UNXMSGTCT	TIMEDCMD'UNEXPECTED'MSGTYPE'CO	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-0514	THR_SM_01_02	TLM'ACCUM(1)	SMAACS2'CPL	AACS	UNSIGNED	16	0	
F-0519	THR_SM_12_10	TLM'ACCUM(11)	SMAACS2'CPL	AACS	UNSIGNED	16	0	
F-0515	THR_SM_03_04	TLM'ACCUM(3)	SMAACS2'CPL	AACS	UNSIGNED	16	0	
F-0516	THR_SM_05_06	TLM'ACCUM(5)	SMAACS2'CPL	AACS	UNSIGNED	16	0	
F-0517	THR_SM_07_08	TLM'ACCUM(7)	SMAACS2'CPL	AACS	UNSIGNED	16	0	
F-0518	THR_SM_09_11	TLM'ACCUM(9)	SMAACS2'CPL	AACS	UNSIGNED	16	0	
F-1410	SCP_DATAFAUL	TLM'DATA'READ'FAULT'COUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1411	SCP_DUMPFAUL	TLM'DUMP'READ'FAULT'COUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-0333	RTE_FLTBODY_X	TLM'FIL'BODY'RATES(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0334	RTE_FLTBODY_Y	TLM'FIL'BODY'RATES(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0335	RTE_FLTBODY_Z	TLM'FIL'BODY'RATES(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0315	QUAT_F_I2B_1	TLM'QTRN'B'FROM'E(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0316	QUAT_F_I2B_2	TLM'QTRN'B'FROM'E(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0317	QUAT_F_I2B_3	TLM'QTRN'B'FROM'E(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0318	QUAT_F_I2B_4	TLM'QTRN'B'FROM'E(3)	AACS10'CPL	AACS	SIGNED	16	0	
F-1408	RDM_XS_ERRS	TOOMANY'FOLLOW'UP'COUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-0342	PIDTRQ_X	TORQ(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0343	PIDTRQ_Y	TORQ(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0344	PIDTRQ_Z	TORQ(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0061	DELTAV_X	TOTAL'DELTA'V(0)	MANUVR'VARSCPL	AACS	SIGNED	16	0	
F-0062	DELTAV_Y	TOTAL'DELTA'V(1)	MANUVR'VARSCPL	AACS	SIGNED	16	0	
F-0063	DELTAV_Z	TOTAL'DELTA'V(2)	MANUVR'VARSCPL	AACS	SIGNED	16	0	
F-0060	DELTAV_DUR	TOTAL'MANUVR'DURATION	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-1019	CE_TOT_MSG_L	TOTAL'MSGS'LOST'ERRORS	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-3031	PDS_notOK_CT	TOTAL'PDS'NOT'OK'COUNT	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-1020	CE_TOT_Q_ERR	TOTAL'QUEUE'ERRORS	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-0535	THRONT_ME	TOTAL'THR'TIME(0)	MANUVR'THRTIM'CPL	AACS	FLOAT	32	0	
F-0521	THRONT_01	TOTAL'THR'TIME(1)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0530	THRONT_10	TOTAL'THR'TIME(10)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0531	THRONT_11	TOTAL'THR'TIME(11)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0532	THRONT_12	TOTAL'THR'TIME(12)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0522	THRONT_02	TOTAL'THR'TIME(2)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0523	THrOnT_03	TOTAL'THR'TIME(3)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0524	THrOnT_04	TOTAL'THR'TIME(4)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0525	THrOnT_05	TOTAL'THR'TIME(5)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0526	THrOnT_06	TOTAL'THR'TIME(6)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0527	THrOnT_07	TOTAL'THR'TIME(7)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0528	THrOnT_08	TOTAL'THR'TIME(8)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0529	THrOnT_09	TOTAL'THR'TIME(9)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0561	STRX_TRANSITS	TRANSITS'PER'SEC	STAREX'CPL	AACS	UNSIGNED	16	0	
F-1464	UPL_UNXMSGCT	UNEXPECTED'MSGTYPE'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1453	UPL_CMDEXTIM	UPLINK'COMMAND'EXECUTION'TIME	UPLINK'CPL	CDH	UNSIGNED	32	0	
F-1458	UPL_INTRPTCT	UPLINK'INTERRUPT'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1465	UPL_STATUS	UPLINK'STATUS	UPLINK'CPL	CDH	DIGITAL	16	0	F-1465
F-1760	UPLS_CIUCARM	UPLINK'STATUS(0)	UPLINK'CPL	CDH	STATUS	1	0	F-1465/00
F-1761	UPLS_CIUCREJ	UPLINK'STATUS(1)	UPLINK'CPL	CDH	STATUS	1	1	F-1465/01
F-1770	UPLS_SPARE10	UPLINK'STATUS(10)	UPLINK'CPL	CDH	STATUS	1	10	F-1465/10
F-1771	UPLS_SPARE11	UPLINK'STATUS(11)	UPLINK'CPL	CDH	STATUS	1	11	F-1465/11
F-1772	UPLS_SPARE12	UPLINK'STATUS(12)	UPLINK'CPL	CDH	STATUS	1	12	F-1465/12
F-1773	UPLS_BUF_RDY	UPLINK'STATUS(13)	UPLINK'CPL	CDH	STATUS	1	13	F-1465/13
F-1774	UPLS_PICK_B	UPLINK'STATUS(14)	UPLINK'CPL	CDH	STATUS	1	14	F-1465/14
F-1775	UPLS_PICK_A	UPLINK'STATUS(15)	UPLINK'CPL	CDH	STATUS	1	15	F-1465/15
F-1762	UPLS_CIUCEXE	UPLINK'STATUS(2)	UPLINK'CPL	CDH	STATUS	1	2	F-1465/02
F-1763	UPLS_DBLE_ERR	UPLINK'STATUS(3)	UPLINK'CPL	CDH	STATUS	1	3	F-1465/03
F-1764	UPLS_SNG_ERR	UPLINK'STATUS(4)	UPLINK'CPL	CDH	STATUS	1	4	F-1465/04
F-1765	UPLS_DSTCODE	UPLINK'STATUS(5)	UPLINK'CPL	CDH	STATUS	2	5	F-1465/05
F-1767	UPLS_DATA_FR	UPLINK'STATUS(7)	UPLINK'CPL	CDH	STATUS	1	7	F-1465/07
F-1768	UPLS_SPARE08	UPLINK'STATUS(8)	UPLINK'CPL	CDH	STATUS	1	8	F-1465/08
F-1769	UPLS_SPARE09	UPLINK'STATUS(9)	UPLINK'CPL	CDH	STATUS	1	9	F-1465/09
F-3060	UPLK_TIMEOUT	UPLINK'TIMEOUT	TELECOM'INIT	TLCM	UNSIGNED	16	0	
F-2260	VS00_B1_VT	VERIFY'STAT(0)	POWER'MGMT'CPL	PWR	STATUS	1	0	F-2155/00
F-2261	VS01_B2_VT	VERIFY'STAT(1)	POWER'MGMT'CPL	PWR	STATUS	1	1	F-2155/01
F-2270	VS10_B1B2_VT	VERIFY'STAT(10)	POWER'MGMT'CPL	PWR	STATUS	1	10	F-2155/10
F-2271	VS11_B1_CR	VERIFY'STAT(11)	POWER'MGMT'CPL	PWR	STATUS	1	11	F-2155/11
F-2272	VS12_B2_CR	VERIFY'STAT(12)	POWER'MGMT'CPL	PWR	STATUS	1	12	F-2155/12
F-2273	VS13_B1B2_CR	VERIFY'STAT(13)	POWER'MGMT'CPL	PWR	STATUS	1	13	F-2155/13
F-2274	VS14_MC_BVR	VERIFY'STAT(14)	POWER'MGMT'CPL	PWR	STATUS	1	14	F-2155/14
F-2275	VS15_CHGPATH	VERIFY'STAT(15)	POWER'MGMT'CPL	PWR	STATUS	1	15	F-2155/15
F-2262	VS02_B1B2_VT	VERIFY'STAT(2)	POWER'MGMT'CPL	PWR	STATUS	1	2	F-2155/02
F-2263	VS03_B1_CR	VERIFY'STAT(3)	POWER'MGMT'CPL	PWR	STATUS	1	3	F-2155/03
F-2264	VS04_B2_CR	VERIFY'STAT(4)	POWER'MGMT'CPL	PWR	STATUS	1	4	F-2155/04
F-2265	VS05_B1B2_CR	VERIFY'STAT(5)	POWER'MGMT'CPL	PWR	STATUS	1	5	F-2155/05
F-2266	VS06_MC_BVR	VERIFY'STAT(6)	POWER'MGMT'CPL	PWR	STATUS	1	6	F-2155/06
F-2267	VS07_CHGPATH	VERIFY'STAT(7)	POWER'MGMT'CPL	PWR	STATUS	1	7	F-2155/07
F-2268	VS08_B1_VT	VERIFY'STAT(8)	POWER'MGMT'CPL	PWR	STATUS	1	8	F-2155/08
F-2269	VS09_B2_VT	VERIFY'STAT(9)	POWER'MGMT'CPL	PWR	STATUS	1	9	F-2155/09
F-2155	VERIFY_STAT	VERIFY'STATUS	POWER'MGMT'CPL	PWR	DIGITAL	16	0	F-2155
F-2024	BAT1_HI_V_CT	VOLT'HI'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2074	BAT2_HI_V_CT	VOLT'HI'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2036	BAT1_VT_CMD	VT'CMD(0)	POWER'MGMT'CPL	PWR	STATUS	3	13	
F-2086	BAT2_VT_CMD	VT'CMD(1)	POWER'MGMT'CPL	PWR	STATUS	3	13	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2034	BAT1_VTS_CMD	VT'SHFTS'CMD(0)	POWER'MGMT'CPL	PWR	STATUS	1	15	
F-2084	BAT2_VTS_CMD	VT'SHFTS'CMD(1)	POWER'MGMT'CPL	PWR	STATUS	1	15	
F-2035	BAT1_VTS_TLM	VT'SHFTS'TLM(0)	POWER'MGMT'CPL	PWR	STATUS	1	15	
F-2085	BAT2_VTS_TLM	VT'SHFTS'TLM(1)	POWER'MGMT'CPL	PWR	STATUS	1	15	
F-2037	BAT1_VT_TLM	VT'TLM(0)	POWER'MGMT'CPL	PWR	STATUS	3	13	
F-2087	BAT2_VT_TLM	VT'TLM(1)	POWER'MGMT'CPL	PWR	STATUS	3	13	
F-1021	CE_WAKEUPFI	WAKEUPTASK'FI'COUNT	CYCEXECCPL	CDH	UNSIGNED	16	0	
F-0351	RWA_SPD_X	WHL'SPD(0)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0352	RWA_SPD_Y	WHL'SPD(1)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0353	RWA_SPD_Z	WHL'SPD(2)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0350	RWA_SPD_S	WHL'SPD(3)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0356	RWA_WHLTRQ_X	WHL'TORQ(0)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0357	RWA_WHLTRQ_Y	WHL'TORQ(1)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0358	RWA_WHLTRQ_Z	WHL'TORQ(2)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0355	RWA_WHLTRQ_S	WHL'TORQ(3)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-3100	XSU_CMD_WORD	XSU'CMD'WORD	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-2575	XSU_MSG_ENAB	XSU'MSG'ENABLE	THERMAL'CPL	THRM	DIGITAL	16	0	
F-3101	XSU_Q_COUNT	XSU'QUE'COUNT	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-3102	XSU_Q_FULL	XSU'QUE'FULL'COUNT	TELECOM'CPL	TLCM	UNSIGNED	16	0	

Appendix D4

SCP Telemetry Index (By Flight Software Compool)

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Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0105	GYR_BI_EST_X	GYRO'BIAS'EST(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0106	GYR_BI_EST_Y	GYRO'BIAS'EST(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0107	GYR_BI_EST_Z	GYRO'BIAS'EST(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0327	RTEsmRAWBD_X	RAW BODY'RATES(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0339	RTE_RAWBOD_X	RAW BODY'RATES(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0328	RTEsmRAWBD_Y	RAW BODY'RATES(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0340	RTE_RAWBOD_Y	RAW BODY'RATES(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0329	RTEsmRAWBD_Z	RAW BODY'RATES(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0341	RTE_RAWBOD_Z	RAW BODY'RATES(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0470	SUNVEC_RAW_X	RAW SUN'VECTOR(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0471	SUNVEC_RAW_Y	RAW SUN'VECTOR(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0472	SUNVEC_RAW_Z	RAW SUN'VECTOR(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0333	RTE_FLTBODY_X	TLM'FIL'BODY'RATES(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0334	RTE_FLTBODY_Y	TLM'FIL'BODY'RATES(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0335	RTE_FLTBODY_Z	TLM'FIL'BODY'RATES(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0315	QUAT_F_I2B_1	TLM'QTRN'B'FROM'E(0)	AACS10'CPL	AACS	SIGNED	16	0	
F-0316	QUAT_F_I2B_2	TLM'QTRN'B'FROM'E(1)	AACS10'CPL	AACS	SIGNED	16	0	
F-0317	QUAT_F_I2B_3	TLM'QTRN'B'FROM'E(2)	AACS10'CPL	AACS	SIGNED	16	0	
F-0318	QUAT_F_I2B_4	TLM'QTRN'B'FROM'E(3)	AACS10'CPL	AACS	SIGNED	16	0	
F-0205	IMU_CHK_FROZ	IMU'FROZENCHK'ENABLED	AACS10'PRESET	AACS	STATUS	1	0	
F-0206	IMU_CHK_STAT	IMU'STATUS'CHK'ENABLED	AACS10'PRESET	AACS	STATUS	1	0	
F-0220	IMUstatMASK	IMU'STATUS'WORD'MASK	AACS10'PRESET	AACS	DIGITAL	16	0	
F-0297	PROP_SUN_X	PROP'SUN(0)	AACS2'CPL	AACS	SIGNED	16	0	
F-0298	PROP_SUN_Y	PROP'SUN(1)	AACS2'CPL	AACS	SIGNED	16	0	
F-0299	PROP_SUN_Z	PROP'SUN(2)	AACS2'CPL	AACS	SIGNED	16	0	
F-0071	EPH_ANG_NODE	EPHEM'ANGLE(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0070	EPH_ANG_INCL	EPHEM'ANGLE(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0072	EPH_ANG_ORBT	EPHEM'ANGLE(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0074	EPH_EARTH_BX	EPHEM'EARTH'B'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0075	EPH_EARTH_BY	EPHEM'EARTH'B'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0076	EPH_EARTH_BZ	EPHEM'EARTH'B'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0077	EPH_EARTH_AX	EPHEM'EARTH'I'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0078	EPH_EARTH_AY	EPHEM'EARTH'I'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0079	EPH_EARTH_AZ	EPHEM'EARTH'I'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0080	EPH_PITCH	EPHEM'PITCH'CORRECTION	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0085	EPH_SUN_BX	EPHEM'SUN'B'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0086	EPH_SUN_BY	EPHEM'SUN'B'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0087	EPH_SUN_BZ	EPHEM'SUN'B'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0090	EPH_SUN_AX	EPHEM'SUN'I'FRAME(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0091	EPH_SUN_AY	EPHEM'SUN'I'FRAME(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0092	EPH_SUN_AZ	EPHEM'SUN'I'FRAME(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0094	EQ_CROSS	EQCR'TIME'TO'NODE	AACS2'EPHEM'CPL	AACS	UNSIGNED	16	0	
F-0301	QUAT_A2B_1	QUAT'B'FROM'A(0)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0302	QUAT_A2B_2	QUAT'B'FROM'A(1)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0303	QUAT_A2B_3	QUAT'B'FROM'A(2)	AACS2'EPHEM'CPL	AACS	SIGNED	16	0	
F-0000	AACS_STATE	ATTITUDE'CNTRL'STATE	AACS2'GLOBAL'CPL	AACS	STATUS	4	12	
F-0057	CT_SUN_BADCK	BAD'SUN'CHECK'COUNT	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0055	CT_CNTRL_ST	CONTROL'STATE'COUNT	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0100	FILT_SUN_X	FILT'SUN(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0101	FILT_SUN_Y	FILTSUN(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0102	FILT_SUN_Z	FILTSUN(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0192	HGA_AZ_POS	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0197	HGA_EL_POS	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0200	HGA_STATS	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0200
F-0620	HGA_STATS_00	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0200/00
F-0621	HGA_STATS_01	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0200/01
F-0622	HGA_STATS_02	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0200/02
F-0623	HGA_STATS_03	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	3	F-0200/03
F-0625	HGA_STATS_05	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0200/05
F-0626	HGA_STATS_06	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0200/06
F-0627	HGA_STATS_07	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	2	7	F-0200/07
F-0629	HGA_STATS_09	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0200/09
F-0630	HGA_STATS_10	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0200/10
F-0631	HGA_STATS_11	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	11	F-0200/11
F-0633	HGA_STATS_13	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0200/13
F-0634	HGA_STATS_14	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0200/14
F-0635	HGA_STATS_15	HGA'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	1	15	F-0200/15
F-0056	CT_MAP_LOST	MAP'LOST'COUNT	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0283	PACK_ATT	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0283
F-0740	INERT_REF	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0283/00
F-0741	BU_INERT_REF	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0283/01
F-0742	MHSA_USABLE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0283/02
F-0743	SUN_MON_CHK	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	3	F-0283/03
F-0744	MHSA_VIEW	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	4	F-0283/04
F-0745	MHSA_DATA	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0283/05
F-0746	SUN_FILTER	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0283/06
F-0747	STAR_UPDATE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	7	F-0283/07
F-0748	MNVR_ACTIVE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	8	F-0283/08
F-0749	SUN_ON_ARRAY	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0283/09
F-0750	NEW_MODE	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0283/10
F-0751	LNCH_TACH_LK	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	11	F-0283/11
F-0752	SUN_MON_LIM	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	12	F-0283/12
F-0753	SUN_DIF_EPH	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0283/13
F-0754	PACK_ATT_14	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0283/14
F-0755	CM_REQ_PEND	PACKED'ATT'STATUS	AACS2'GLOBAL'CPL	AACS	STATUS	1	15	F-0283/15
F-0321	QUAT_I2B_1	QUAT'B'FROM'I'BU(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0322	QUAT_I2B_2	QUAT'B'FROM'I'BU(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0323	QUAT_I2B_3	QUAT'B'FROM'I'BU(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0324	QUAT_I2B_4	QUAT'B'FROM'I'BU(3)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0381	SAM_NORM_X	SAM'NORMAL(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0382	SAM_NORM_Y	SAM'NORMAL(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0383	SAM_NORM_Z	SAM'NORMAL(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0362	SAM_AZ_POS	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0379	SAM_EL_POS	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0385	SAM_STATS	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0385
F-0800	SAM_STATS_00	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0385/00
F-0801	SAM_STATS_01	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0385/01
F-0802	SAM_STATS_02	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0385/02

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0803	SAM_STATS_03	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	3	F-0385/03
F-0805	SAM_STATS_05	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0385/05
F-0806	SAM_STATS_06	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0385/06
F-0807	SAM_STATS_07	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	2	7	F-0385/07
F-0809	SAM_STATS_09	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0385/09
F-0810	SAM_STATS_10	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0385/10
F-0811	SAM_STATS_11	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	11	F-0385/11
F-0813	SAM_STATS_13	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0385/13
F-0814	SAM_STATS_14	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0385/14
F-0815	SAM_STATS_15	SAM'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	1	15	F-0385/15
F-0411	SAP_NORM_X	SAP'NORMAL(0)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0412	SAP_NORM_Y	SAP'NORMAL(1)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0413	SAP_NORM_Z	SAP'NORMAL(2)	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0392	SAP_AZ_POS	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0409	SAP_EL_POS	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	16	0	
F-0415	SAP_STATS	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	DIGITAL	16	0	F-0415
F-0820	SAP_STATS_00	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	0	F-0415/00
F-0821	SAP_STATS_01	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	1	F-0415/01
F-0822	SAP_STATS_02	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	2	F-0415/02
F-0823	SAP_STATS_03	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	3	F-0415/03
F-0825	SAP_STATS_05	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	5	F-0415/05
F-0826	SAP_STATS_06	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	6	F-0415/06
F-0827	SAP_STATS_07	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	2	7	F-0415/07
F-0829	SAP_STATS_09	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	9	F-0415/09
F-0830	SAP_STATS_10	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	10	F-0415/10
F-0831	SAP_STATS_11	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	2	11	F-0415/11
F-0833	SAP_STATS_13	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	13	F-0415/13
F-0834	SAP_STATS_14	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	STATUS	1	14	F-0415/14
F-0835	SAP_STATS_15	SAP'RAW'DATA	AACS2'GLOBAL'CPL	AACS	UNSIGNED	1	15	F-0415/15
F-0480	SYST_MOM_X	SYSTMOM	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0481	SYST_MOM_Y	SYSTMOM	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0482	SYST_MOM_Z	SYSTMOM	AACS2'GLOBAL'CPL	AACS	SIGNED	16	0	
F-0005	ATT_ENABLES	ATT'ENABS	AACS2'GLOBAL'PRESET	AACS	DIGITAL	16	0	F-0005
F-0600	BU_MODE_ENA	ATT'ENABS(0)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	0	F-0005/00
F-0601	SUN_MON_EPH	ATT'ENABS(1)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	1	F-0005/01
F-0610	CSAbu_HAS_BU	ATT'ENABS(10)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	10	F-0005/10
F-0611	SSA_MODE_SWI	ATT'ENABS(11)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	11	F-0005/11
F-0612	ATT_ENAB_12	ATT'ENABS(12)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	12	F-0005/12
F-0613	ATT_ENAB_13	ATT'ENABS(13)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	13	F-0005/13
F-0614	ATT_ENAB_14	ATT'ENABS(14)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	14	F-0005/14
F-0615	ATT_ENAB_15	ATT'ENABS(15)	AACS2'GLOBAL'PRESET	AACS	UNSIGNED	1	15	F-0005/15
F-0602	SUN_MON_THR	ATT'ENABS(2)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	2	F-0005/02
F-0603	SUN_AVOID	ATT'ENABS(3)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	3	F-0005/03
F-0604	RWA_PID_INT	ATT'ENABS(4)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	4	F-0005/04
F-0605	ANS_AUTO_ENA	ATT'ENABS(5)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	5	F-0005/05
F-0606	SEARCH_AUTO	ATT'ENABS(6)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	6	F-0005/06
F-0607	MAP_EPHEM	ATT'ENABS(7)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	7	F-0005/07
F-0608	CHK_NEW_EPH	ATT'ENABS(8)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	8	F-0005/08
F-0609	MHSA_DER_ATT	ATT'ENABS(9)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	9	F-0005/09

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0009	ATT_STAT_NEW	NEW'AACS'STATUS	AACS2'GLOBAL'PRESET	AACS	DIGITAL	16	0	F-0009
F-0900	ASN_CSAoffst	NEW'AACS'STATUS(0)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	0	F-0009/00
F-0901	ASN_NOM_ACT	NEW'AACS'STATUS(1)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	1	F-0009/01
F-0910	ASN_THR_SEL	NEW'AACS'STATUS(10)	AACS2'GLOBAL'PRESET	AACS	STATUS	2	10	F-0009/10
F-0912	ASN_SPARE_12	NEW'AACS'STATUS(12)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	12	F-0009/12
F-0913	ASN_SPARE_13	NEW'AACS'STATUS(13)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	13	F-0009/13
F-0914	ASN_SPARE_14	NEW'AACS'STATUS(14)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	14	F-0009/14
F-0915	ASN_SPARE_15	NEW'AACS'STATUS(15)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	15	F-0009/15
F-0902	ASN_CM_ACT	NEW'AACS'STATUS(2)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	2	F-0009/02
F-0903	ASN_THR_LEAK	NEW'AACS'STATUS(3)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	3	F-0009/03
F-0904	ASN_CNTR_FLT	NEW'AACS'STATUS(4)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	4	F-0009/04
F-0905	ASN_RWA_STIC	NEW'AACS'STATUS(5)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	5	F-0009/05
F-0906	ASN_SPARE_06	NEW'AACS'STATUS(6)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	6	F-0009/06
F-0907	ASN_SPARE_07	NEW'AACS'STATUS(7)	AACS2'GLOBAL'PRESET	AACS	STATUS	1	7	F-0009/07
F-0908	ASN_EOD	NEW'AACS'STATUS(8)	AACS2'GLOBAL'PRESET	AACS	STATUS	2	8	F-0009/08
F-0262	MHSApitchC11	PITCH'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0263	MHSApitchC22	PITCH'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0264	MHSArollC11	ROLL'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0265	MHSArollC22	ROLL'COVAR	AACS2'MAP'CNTRL'CPL	AACS	SIGNED	16	0	
F-0231	MHSA_A-S_Q1	MHSA'A'MIN'S'DATA(0)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0232	MHSA_A-S_Q2	MHSA'A'MIN'S'DATA(1)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0233	MHSA_A-S_Q3	MHSA'A'MIN'S'DATA(2)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0234	MHSA_A-S_Q4	MHSA'A'MIN'S'DATA(3)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0235	MHSA_B-S_Q1	MHSA'B'MIN'S'DATA(0)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0236	MHSA_B-S_Q2	MHSA'B'MIN'S'DATA(1)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0237	MHSA_B-S_Q3	MHSA'B'MIN'S'DATA(2)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0238	MHSA_B-S_Q4	MHSA'B'MIN'S'DATA(3)	AACS2'MHSA'CPL	AACS	UNSIGNED	16	0	
F-0241	MHSA_DETA_Q1	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0242	MHSA_DETA_Q2	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0243	MHSA_DETA_Q3	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0244	MHSA_DETA_Q4	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0245	MHSA_DETB_Q1	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0246	MHSA_DETB_Q2	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0247	MHSA_DETB_Q3	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0248	MHSA_DETB_Q4	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0251	MHSA_DETS_Q1	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0252	MHSA_DETS_Q2	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0253	MHSA_DETS_Q3	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0254	MHSA_DETS_Q4	MHSA'RAW'DATA	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	
F-0260	MHSA_PITCH	PITCH'ERROR	AACS2'MHSA'CPL	AACS	SIGNED	16	0	
F-0266	MHSA_QD_BAD	QUAD'DATA'BAD	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	F-0266
F-0700	MHSA_QD_B_00	QUAD'DATA'BAD(0)	AACS2'MHSA'CPL	AACS	STATUS	1	0	F-0266/00
F-0701	MHSA_QD_B_01	QUAD'DATA'BAD(1)	AACS2'MHSA'CPL	AACS	STATUS	1	1	F-0266/01
F-0702	MHSA_QD_B_02	QUAD'DATA'BAD(2)	AACS2'MHSA'CPL	AACS	STATUS	1	2	F-0266/02
F-0703	MHSA_QD_B_03	QUAD'DATA'BAD(3)	AACS2'MHSA'CPL	AACS	STATUS	1	3	F-0266/03
F-0267	MHSA_QD_VIEW	QUAD'VIEW'SPACE	AACS2'MHSA'CPL	AACS	DIGITAL	16	0	F-0267
F-0710	MHSA_QD_V_00	QUAD'VIEW'SPACE(0)	AACS2'MHSA'CPL	AACS	STATUS	1	0	F-0267/00
F-0711	MHSA_QD_V_01	QUAD'VIEW'SPACE(1)	AACS2'MHSA'CPL	AACS	STATUS	1	1	F-0267/01
F-0712	MHSA_QD_V_02	QUAD'VIEW'SPACE(2)	AACS2'MHSA'CPL	AACS	STATUS	1	2	F-0267/02

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0713	MHSA_QD_V_03	QUAD'VIEW'SPACE(3)	AACS2'MHSA'CPL	AACS	STATUS	1	3	F-0267/03
F-0261	MHSA_ROLL	ROLL'ERROR	AACS2'MHSA'CPL	AACS	SIGNED	16	0	
F-0223	ISH_slewRATE	ISH'CNTRL'PARAMS	AACS2'MISC'CNTRL'PRESET	AACS	SIGNED	16	0	
F-0277	MOM_UNL_STAT	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	DIGITAL	16	0	F-0277
F-0884	MOMUNL_AXIS	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	STATUS	4	4	F-0277/04
F-0888	MOMUNL_STATE	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	STATUS	4	8	F-0277/08
F-0892	UNLSEQ_STATE	MOMUNL'STATUS	AACS2'MOMUNL'CPL	AACS	STATUS	4	12	F-0277/12
F-0274	MOM_EMERG_WT	EM'THRUSTER'WARM'UPTIME	AACS2'MOMUNL'PRESET	AACS	UNSIGNED	16	0	
F-0270	MOM_DYAD_0	INERTIA'DYADIC(0)	AACS2'MOMUNL'PRESET	AACS	SIGNED	16	0	
F-0271	MOM_DYAD_4	INERTIA'DYADIC(4)	AACS2'MOMUNL'PRESET	AACS	SIGNED	16	0	
F-0272	MOM_DYAD_8	INERTIA'DYADIC(8)	AACS2'MOMUNL'PRESET	AACS	SIGNED	16	0	
F-0276	MOM_PRESETS	MOM'UNL'ENABLE	AACS2'MOMUNL'PRESET	AACS	DIGITAL	16	0	F-0276
F-0720	MOM_PRESET_0	MOM'UNL'ENABLE	AACS2'MOMUNL'PRESET	AACS	STATUS	1	0	F-0276/00
F-0721	MOM_PRESET_1	MOM'UNL'ENABLE	AACS2'MOMUNL'PRESET	AACS	STATUS	1	1	F-0276/01
F-0278	MOM_WARMUP_T	THRUSTER'WARM'UPTIME	AACS2'MOMUNL'PRESET	AACS	UNSIGNED	16	0	
F-0330	RTE_CMD_X	COM'RATE	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0331	RTE_CMD_Y	COM'RATE	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0332	RTE_CMD_Z	COM'RATE	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0290	POS_ERR_X	POS'ERR(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0291	POS_ERR_Y	POS'ERR(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0292	POS_ERR_Z	POS'ERR(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0293	POS_INTERR_X	POS'SUM(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0294	POS_INTERR_Y	POS'SUM(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0295	POS_INTERR_Z	POS'SUM(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0336	RTE_INTERR_X	RATE'SUM(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0337	RTE_INTERR_Y	RATE'SUM(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0338	RTE_INTERR_Z	RATE'SUM(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0342	PIDTRQ_X	TORQ(0)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0343	PIDTRQ_Y	TORQ(1)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0344	PIDTRQ_Z	TORQ(2)	AACS2'PID'CPL	AACS	SIGNED	16	0	
F-0760	RWA_X_SPDsgn	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0345/00
F-0761	RWA_X_ID	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0345/01
F-0763	RWA_X_PWR_ST	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0345/03
F-0764	RWA_X_PWRLIM	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0345/04
F-0765	RWA_X_SPDMAG	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0345/05
F-0770	RWA_Y_SPDsgn	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0346/00
F-0771	RWA_Y_ID	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0346/01
F-0773	RWA_Y_PWR_ST	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0346/03
F-0774	RWA_Y_PWRLIM	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0346/04
F-0775	RWA_Y_SPDMAG	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0346/05
F-0780	RWA_Z_SPDsgn	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0347/00
F-0781	RWA_Z_ID	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0347/01
F-0783	RWA_Z_PWR_ST	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0347/03
F-0784	RWA_Z_PWRLIM	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0347/04
F-0785	RWA_Z_SPDMAG	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0347/05
F-0790	RWA_S_SPDsgn	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	0	F-0348/00
F-0791	RWA_S_ID	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	2	1	F-0348/01
F-0793	RWA_S_PWR_ST	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	3	F-0348/03
F-0794	RWA_S_PWRLIM	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	STATUS	1	4	F-0348/04

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0795	RWA_S_SPDMAG	RWA'RAW'WORD	AACS2'RWA'CPL	AACS	UNSIGNED	11	5	F-0348/05
F-0345	RWA_RAW_X	RWA'RAW'WORD(0)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0345
F-0346	RWA_RAW_Y	RWA'RAW'WORD(1)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0346
F-0347	RWA_RAW_Z	RWA'RAW'WORD(2)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0347
F-0348	RWA_RAW_S	RWA'RAW'WORD(3)	AACS2'RWA'CPL	AACS	DIGITAL	16	0	F-0348
F-0351	RWA_SPD_X	WHL'SPD(0)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0352	RWA_SPD_Y	WHL'SPD(1)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0353	RWA_SPD_Z	WHL'SPD(2)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0350	RWA_SPD_S	WHL'SPD(3)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0356	RWA_WHLTRQ_X	WHL'TORQ(0)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0357	RWA_WHLTRQ_Y	WHL'TORQ(1)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0358	RWA_WHLTRQ_Z	WHL'TORQ(2)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0355	RWA_WHLTRQ_S	WHL'TORQ(3)	AACS2'RWA'CPL	AACS	SIGNED	16	0	
F-0365	SAM_BMTRX_0	MTRX'B'FROM'SAM(0)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0366	SAM_BMTRX_1	MTRX'B'FROM'SAM(1)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0367	SAM_BMTRX_2	MTRX'B'FROM'SAM(2)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0368	SAM_BMTRX_3	MTRX'B'FROM'SAM(3)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0369	SAM_BMTRX_4	MTRX'B'FROM'SAM(4)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0370	SAM_BMTRX_5	MTRX'B'FROM'SAM(5)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0371	SAM_BMTRX_6	MTRX'B'FROM'SAM(6)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0372	SAM_BMTRX_7	MTRX'B'FROM'SAM(7)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0373	SAM_BMTRX_8	MTRX'B'FROM'SAM(8)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0395	SAP_BMTRX_0	MTRX'B'FROM'SAP(0)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0396	SAP_BMTRX_1	MTRX'B'FROM'SAP(1)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0397	SAP_BMTRX_2	MTRX'B'FROM'SAP(2)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0398	SAP_BMTRX_3	MTRX'B'FROM'SAP(3)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0399	SAP_BMTRX_4	MTRX'B'FROM'SAP(4)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0400	SAP_BMTRX_5	MTRX'B'FROM'SAP(5)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0401	SAP_BMTRX_6	MTRX'B'FROM'SAP(6)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0402	SAP_BMTRX_7	MTRX'B'FROM'SAP(7)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0403	SAP_BMTRX_8	MTRX'B'FROM'SAP(8)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0439	SSA_PSUN_DIR	PROPSUN'DIR	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0446	SSA_SUNHDF_X	RAW'SUN'HEAD'FRAME(0)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0447	SSA_SUNHDF_Y	RAW'SUN'HEAD'FRAME(1)	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0444	SSA_STATUS	SSA'STATUS	AACS2'SSA'CPL	AACS	STATUS	4	12	
F-0438	SSA_DOT_PRD	SSA'VEC'DOT'PRDCT	AACS2'SSA'CPL	AACS	SIGNED	16	0	
F-0476	SUN_SUBMODE	SUN'CONTROL'SUBMODE	AACS2'SUN'CNTRL'CPL	AACS	STATUS	4	12	
F-0190	HGA_AZ_ANG	HGA'AZI'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0191	HGA_AZ_CMD	HGA'AZI'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0193	HGA_AZ_TRG	HGA'AZI'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0194	HGA_CNTRL_ST	HGA'CONTROL'STATUS	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0195	HGA_EL_ANG	HGA'ELE'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0196	HGA_EL_CMD	HGA'ELE'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0198	HGA_EL_TRG	HGA'ELE'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0360	SAM_AZ_ANG	SAM'AZI'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0361	SAM_AZ_CMD	SAM'AZI'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0363	SAM_AZ_TRG	SAM'AZI'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0375	SAM_CNTRL_ST	SAM'CONTROL'STATUS	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0377	SAM_EL_ANG	SAM'ELE'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0378	SAM_EL_CMD	SAMELE'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0380	SAM_EL_TRG	SAMELE'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0390	SAP_AZ_ANG	SAP'AZI'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0391	SAP_AZ_CMD	SAP'AZI'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0393	SAP_AZ_TRG	SAP'AZI'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0405	SAP_CNTRL_ST	SAP'CONTROL'STATUS	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0407	SAP_EL_ANG	SAPELE'ANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0408	SAP_EL_CMD	SAPELE'CMD	ARTCNT'VARS'CPL	AACS	DIGITAL	16	0	
F-0410	SAP_EL_TRG	SAPELE'TARGET	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-0475	SUN_CLOCK	SUNCLOCKANGLE	ARTCNT'VARS'CPL	AACS	SIGNED	16	0	
F-1002	AUDIT_Q_W1	AUDITQUE'MSGTYPE	AUDITQUE'CPL	CDH	UNSIGNED	16	0	
F-1003	AUDIT_Q_W2-3	AUDITQUE'TIMETAG	AUDITQUE'CPL	CDH	UNSIGNED	32	0	
F-1004	AUDIT_Q_W4	DIAGNOSTIC'DATA'1	AUDITQUE'CPL	CDH	DIGITAL	16	0	
F-1005	AUDIT_Q_W5	DIAGNOSTIC'DATA'2	AUDITQUE'CPL	CDH	DIGITAL	16	0	
F-1110	POBimgCIU138	BUFFER'IMAGE(1)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1138	POBimgCIX258	BUFFER'IMAGE(10)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1139	POBimgCIX270	BUFFER'IMAGE(11)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1140	POBimgCIX286	BUFFER'IMAGE(12)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1141	POBimgCIX28A	BUFFER'IMAGE(13)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1142	POBimgCIX28C	BUFFER'IMAGE(14)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1143	POBimgCIX2A4	BUFFER'IMAGE(15)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1144	POBimgCIX2A8	BUFFER'IMAGE(16)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1145	POBimgCIX2C2	BUFFER'IMAGE(17)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1146	POBimgCIX2C4	BUFFER'IMAGE(18)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1147	POBimgCIX2C8	BUFFER'IMAGE(19)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1130	POBimgCIX138	BUFFER'IMAGE(2)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1148	POBimgCIXA06	BUFFER'IMAGE(20)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1149	POBimgCIXA0A	BUFFER'IMAGE(21)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1150	POBimgCIXA0C	BUFFER'IMAGE(22)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1151	POBimgCIXA14	BUFFER'IMAGE(23)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1152	POBimgCIXA18	BUFFER'IMAGE(24)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1153	POBimgCIXA22	BUFFER'IMAGE(25)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1154	POBimgCIXA24	BUFFER'IMAGE(26)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1155	POBimgCIXA28	BUFFER'IMAGE(27)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1156	POBimgCIXA42	BUFFER'IMAGE(28)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1157	POBimgCIXA44	BUFFER'IMAGE(29)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1131	POBimgCIX20E	BUFFER'IMAGE(3)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1158	POBimgCIXA48	BUFFER'IMAGE(30)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1159	POBimgCIXA60	BUFFER'IMAGE(31)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1160	POBimgCIXA82	BUFFER'IMAGE(32)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1161	POBimgCIXA84	BUFFER'IMAGE(33)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1162	POBimgCIXA88	BUFFER'IMAGE(34)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1163	POBimgCIXA90	BUFFER'IMAGE(35)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1111	POBimgCIU21A	BUFFER'IMAGE(36)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1112	POBimgCIU22A	BUFFER'IMAGE(37)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1113	POBimgCIU232	BUFFER'IMAGE(38)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1114	POBimgCIU234	BUFFER'IMAGE(39)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1132	POBimgCIX216	BUFFER'IMAGE(4)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1115	POBimgCIU246	BUFFER'IMAGE(40)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1116	POBimgCIU24A	BUFFER'IMAGE(41)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1117	POBimgCIU262	BUFFER'IMAGE(42)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1118	POBimgCIU292	BUFFER'IMAGE(43)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1119	POBimgCIU294	BUFFER'IMAGE(44)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1120	POBimgCIU298	BUFFER'IMAGE(45)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1121	POBimgCIU2A2	BUFFER'IMAGE(46)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1122	POBimgCIUA12	BUFFER'IMAGE(47)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1123	POBimgCIUAA0	BUFFER'IMAGE(48)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1124	POBimgCIUAC0	BUFFER'IMAGE(49)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1133	POBimgCIX21C	BUFFER'IMAGE(5)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1134	POBimgCIX22C	BUFFER'IMAGE(6)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1135	POBimgCIX232	BUFFER'IMAGE(7)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1136	POBimgCIX24C	BUFFER'IMAGE(8)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1137	POBimgCIX254	BUFFER'IMAGE(9)	BUFFER'IMAGETABLE'CPL	CDH	DIGITAL	16	0	
F-1080	INT_CMDEX_CT	INTERNAL'CMDS'EXECUTED'COUNT	CMDEX'DATA'CPL	CDH	UNSIGNED	16	0	
F-1081	INT_CMDRJ_CT	INTERNAL'CMDS'REJECTED'COUNT	CMDEX'DATA'CPL	CDH	UNSIGNED	16	0	
F-1096	M_PHASE_BUFF	CIU'CHECK'INPUT	CYCEXECCPL	CDH	DIGITAL	16	0	F-1096
F-1024	CIU_FLAGS	CIU'FLAG'WORD	CYCEXECCPL	CDH	DIGITAL	16	0	F-1024
F-1520	CIUFL_2Hz	CIU'FLAG'WORD(0)	CYCEXECCPL	CDH	STATUS	1	0	F-1024/00
F-1521	CIUFL_SSA1	CIU'FLAG'WORD(1)	CYCEXECCPL	CDH	STATUS	1	1	F-1024/01
F-1530	CIUFL_MEok	CIU'FLAG'WORD(10)	CYCEXECCPL	CDH	STATUS	1	10	F-1024/10
F-1531	CIUFL_HEok	CIU'FLAG'WORD(11)	CYCEXECCPL	CDH	STATUS	1	11	F-1024/11
F-1532	CIUFL_BUssel	CIU'FLAG'WORD(12)	CYCEXECCPL	CDH	STATUS	1	12	F-1024/12
F-1533	CIUFL_CNTmod	CIU'FLAG'WORD(13)	CYCEXECCPL	CDH	STATUS	1	13	F-1024/13
F-1534	CIUFL_MARSIC	CIU'FLAG'WORD(14)	CYCEEXEC'CPL	CDH	STATUS	1	14	F-1024/14
F-1535	CIUFL_DESR_B	CIU'FLAG'WORD(15)	CYCEXECCPL	CDH	STATUS	1	15	F-1024/15
F-1522	CIUFL_SSA2	CIU'FLAG'WORD(2)	CYCEXECCPL	CDH	STATUS	1	2	F-1024/02
F-1523	CIUFL_QTHz	CIU'FLAG'WORD(3)	CYCEXECCPL	CDH	STATUS	1	3	F-1024/03
F-1524	CIUFL_HEcntl	CIU'FLAG'WORD(4)	CYCEXECCPL	CDH	STATUS	1	4	F-1024/04
F-1525	CIUFL_IO_X	CIU'FLAG'WORD(5)	CYCEXECCPL	CDH	STATUS	1	5	F-1024/05
F-1526	CIUFL_EDF1ok	CIU'FLAG'WORD(6)	CYCEXECCPL	CDH	STATUS	1	6	F-1024/06
F-1527	CIUFL_EDF2ok	CIU'FLAG'WORD(7)	CYCEEXEC'CPL	CDH	STATUS	1	7	F-1024/07
F-1528	CIUFL_MEcntl	CIU'FLAG'WORD(8)	CYCEXECCPL	CDH	STATUS	1	8	F-1024/08
F-1529	CIUFL_MHSA1P	CIU'FLAG'WORD(9)	CYCEXECCPL	CDH	STATUS	1	9	F-1024/09
F-1026	CIX_FLAGS	CIX'FLAG'WORD	CYCEEXEC'CPL	CDH	DIGITAL	16	0	F-1026
F-1540	CIXFL_ECHO0	CIX'FLAG'WORD(0)	CYCEXECCPL	CDH	STATUS	1	0	F-1026/00
F-1541	CIXFL_01	CIX'FLAG'WORD(1)	CYCEXECCPL	CDH	STATUS	1	1	F-1026/01
F-1550	CIXFL_10	CIX'FLAG'WORD(10)	CYCEXECCPL	CDH	STATUS	1	10	F-1026/10
F-1551	CIXFL_11	CIX'FLAG'WORD(11)	CYCEXECCPL	CDH	STATUS	1	11	F-1026/11
F-1552	CIXFL_BUssel	CIX'FLAG'WORD(12)	CYCEXECCPL	CDH	STATUS	1	12	F-1026/12
F-1553	CIXFL_13	CIX'FLAG'WORD(13)	CYCEXECCPL	CDH	STATUS	1	13	F-1026/13
F-1554	CIXFL_14	CIX'FLAG'WORD(14)	CYCEEXEC'CPL	CDH	STATUS	1	14	F-1026/14
F-1555	CIXFL_DESR_B	CIX'FLAG'WORD(15)	CYCEXECCPL	CDH	STATUS	1	15	F-1026/15
F-1542	CIXFL_02	CIX'FLAG'WORD(2)	CYCEXECCPL	CDH	STATUS	1	2	F-1026/02
F-1543	CIXFL_03	CIX'FLAG'WORD(3)	CYCEXECCPL	CDH	STATUS	1	3	F-1026/03
F-1544	CIXFL_HEcntl	CIX'FLAG'WORD(4)	CYCEXECCPL	CDH	STATUS	1	4	F-1026/04
F-1545	CIXFL_IO_X	CIX'FLAG'WORD(5)	CYCEEXEC'CPL	CDH	STATUS	1	5	F-1026/05
F-1546	CIXFL_06	CIX'FLAG'WORD(6)	CYCEXECCPL	CDH	STATUS	1	6	F-1026/06
F-1547	CIXFL_07	CIX'FLAG'WORD(7)	CYCEXECCPL	CDH	STATUS	1	7	F-1026/07

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1548	CIXFL_MEcntl	CIX'FLAG'WORD(8)	CYCEEXEC'CPL	CDH	STATUS	1	8	F-1026/08
F-1549	CIXFL_09	CIX'FLAG'WORD(9)	CYCEEXEC'CPL	CDH	STATUS	1	9	F-1026/09
F-0051	CSAwDNONZERO	CSAWRDNZ	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-1011	CE_GND_ENT_T	GND'STATE'ENTRY'TIME	CYCEEXEC'CPL	CDH	UNSIGNED	32	0	
F-0201	HGA_TIMEOUT	HGA'SIB'TIMEOUT	CYCEEXEC'CPL	AACS	STATUS	4	12	
F-1012	CE_GND_MAX_T	MAX'GND'STATETIME	CYCEEXEC'CPL	CDH	UNSIGNED	32	0	
F-1092	MEOK_WORD	MEOK'INHIBITWORD	CYCEEXEC'CPL	CDH	DIGITAL	16	0	F-1092
F-1580	MEOK_OFFL	MEOK'INHIBIT'WORD(0)	CYCEEXEC'CPL	CDH	STATUS	1	0	F-1092/00
F-1581	MEOK_ERR	MEOK'INHIBIT'WORD(1)	CYCEEXEC'CPL	CDH	STATUS	1	1	F-1092/01
F-1590	MEOK_SPARES	MEOK'INHIBIT'WORD(10)	CYCEEXEC'CPL	CDH	UNSIGNED	6	10	F-1092/10
F-1582	MEOK_REQ	MEOK'INHIBIT'WORD(2)	CYCEEXEC'CPL	CDH	STATUS	1	2	F-1092/02
F-1583	MEOK_QUER	MEOK'INHIBIT'WORD(3)	CYCEEXEC'CPL	CDH	STATUS	1	3	F-1092/03
F-1584	MEOK_ROUT	MEOK'INHIBIT'WORD(4)	CYCEEXEC'CPL	CDH	STATUS	1	4	F-1092/04
F-1585	MEOK_UOUT	MEOK'INHIBIT'WORD(5)	CYCEEXEC'CPL	CDH	STATUS	1	5	F-1092/05
F-1586	MEOK_TOUT	MEOK'INHIBIT'WORD(6)	CYCEEXEC'CPL	CDH	STATUS	1	6	F-1092/06
F-1587	MEOK_POUT	MEOK'INHIBIT'WORD(7)	CYCEEXEC'CPL	CDH	STATUS	1	7	F-1092/07
F-1588	MEOK_WKUP	MEOK'INHIBIT'WORD(8)	CYCEEXEC'CPL	CDH	STATUS	1	8	F-1092/08
F-1589	MEOK_STAK	MEOK'INHIBIT'WORD(9)	CYCEEXEC'CPL	CDH	STATUS	1	9	F-1092/09
F-2280	POWER_TIME	POWER'TIME	CYCEEXEC'CPL	PWR	UNSIGNED	16	0	
F-0388	SAM_TIMEOUT	SAMSIB'TIMEOUT	CYCEEXEC'CPL	AACS	STATUS	4	12	
F-0418	SAP_TIMEOUT	SAPSIB'TIMEOUT	CYCEEXEC'CPL	AACS	STATUS	4	12	
F-1016	CE_SC_STATE	SC'STATE	CYCEEXEC'CPL	CDH	STATUS	4	12	
F-1013	CE_SCP10TIME	SCP'10'TIME	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1014	CE_SCP_ID	SCPID	CYCEEXEC'CPL	CDH	STATUS	4	12	
F-1015	CE_SCP_TIME	SCPTIME	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1017	CE_TASK_TOCT	TASK'TIMEOUT'FI'COUNT	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-0040	CSA_AS_1	TELEM'CSA(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0041	CSA_AS_2	TELEM'CSA(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0042	CSA_AS_3	TELEM'CSA(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0043	CSA_AS_4	TELEM'CSA(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0044	CSA_AS_5	TELEM'CSA(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0045	CSA_AS_6	TELEM'CSA(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0046	CSA_AS_7	TELEM'CSA(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0047	CSA_AS_8	TELEM'CSA(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0048	CSA_AS_9	TELEM'CSA(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0049	CSA_AS_10	TELEM'CSA(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0110	GY_X1_X3_1	TELEM'GYRO'X1(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0111	GY_X1_X3_2	TELEM'GYRO'X1(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0112	GY_X1_X3_3	TELEM'GYRO'X1(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0113	GY_X1_X3_4	TELEM'GYRO'X1(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0114	GY_X1_X3_5	TELEM'GYRO'X1(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0115	GY_X1_X3_6	TELEM'GYRO'X1(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0116	GY_X1_X3_7	TELEM'GYRO'X1(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0117	GY_X1_X3_8	TELEM'GYRO'X1(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0118	GY_X1_X3_9	TELEM'GYRO'X1(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0119	GY_X1_X3_10	TELEM'GYRO'X1(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0120	GY_X3_AX_1	TELEM'GYRO'X3(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0121	GY_X3_AX_2	TELEM'GYRO'X3(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0122	GY_X3_AX_3	TELEM'GYRO'X3(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0123	GY_X3_AX_4	TELEM'GYRO'X3(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0124	GY_X3_AX_5	TELEM'GYRO'X3(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0125	GY_X3_AX_6	TELEM'GYRO'X3(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0126	GY_X3_AX_7	TELEM'GYRO'X3(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0127	GY_X3_AX_8	TELEM'GYRO'X3(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0128	GY_X3_AX_9	TELEM'GYRO'X3(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0129	GY_X3_AX_10	TELEM'GYRO'X3(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0130	GY_Y1_Y2_1	TELEM'GYRO'Y1(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0131	GY_Y1_Y2_2	TELEM'GYRO'Y1(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0132	GY_Y1_Y2_3	TELEM'GYRO'Y1(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0133	GY_Y1_Y2_4	TELEM'GYRO'Y1(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0134	GY_Y1_Y2_5	TELEM'GYRO'Y1(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0135	GY_Y1_Y2_6	TELEM'GYRO'Y1(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0136	GY_Y1_Y2_7	TELEM'GYRO'Y1(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0137	GY_Y1_Y2_8	TELEM'GYRO'Y1(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0138	GY_Y1_Y2_9	TELEM'GYRO'Y1(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0139	GY_Y1_Y2_10	TELEM'GYRO'Y1(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0140	GY_Y2_AY_1	TELEM'GYRO'Y2(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0141	GY_Y2_AY_2	TELEM'GYRO'Y2(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0142	GY_Y2_AY_3	TELEM'GYRO'Y2(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0143	GY_Y2_AY_4	TELEM'GYRO'Y2(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0144	GY_Y2_AY_5	TELEM'GYRO'Y2(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0145	GY_Y2_AY_6	TELEM'GYRO'Y2(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0146	GY_Y2_AY_7	TELEM'GYRO'Y2(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0147	GY_Y2_AY_8	TELEM'GYRO'Y2(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0148	GY_Y2_AY_9	TELEM'GYRO'Y2(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0149	GY_Y2_AY_10	TELEM'GYRO'Y2(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0150	GY_Z2_Z3_1	TELEM'GYRO'Z2(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0151	GY_Z2_Z3_2	TELEM'GYRO'Z2(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0152	GY_Z2_Z3_3	TELEM'GYRO'Z2(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0153	GY_Z2_Z3_4	TELEM'GYRO'Z2(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0154	GY_Z2_Z3_5	TELEM'GYRO'Z2(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0155	GY_Z2_Z3_6	TELEM'GYRO'Z2(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0156	GY_Z2_Z3_7	TELEM'GYRO'Z2(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0157	GY_Z2_Z3_8	TELEM'GYRO'Z2(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0158	GY_Z2_Z3_9	TELEM'GYRO'Z2(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0159	GY_Z2_Z3_10	TELEM'GYRO'Z2(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0160	GY_Z3_AZ_1	TELEM'GYRO'Z3(0)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0161	GY_Z3_AZ_2	TELEM'GYRO'Z3(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0162	GY_Z3_AZ_3	TELEM'GYRO'Z3(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0163	GY_Z3_AZ_4	TELEM'GYRO'Z3(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0164	GY_Z3_AZ_5	TELEM'GYRO'Z3(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0165	GY_Z3_AZ_6	TELEM'GYRO'Z3(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0166	GY_Z3_AZ_7	TELEM'GYRO'Z3(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0167	GY_Z3_AZ_8	TELEM'GYRO'Z3(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0168	GY_Z3_AZ_9	TELEM'GYRO'Z3(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0169	GY_Z3_AZ_10	TELEM'GYRO'Z3(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0210	IMU_ST_WD1	TELEM'IMU'STATUS	CYCEEXEC'CPL	AACS	DIGITAL	16	0	F-0210
F-0640	IMU_DCsupSEL	TELEM'IMU'STATUS(0,0)	CYCEEXEC'CPL	AACS	STATUS	1	0	F-0210/00

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0641	IMU_ACsupSEL	TELEM'IMU'STATUS(0,1)	CYCEEXEC'CPL	AACS	STATUS	1	1	F-0210/01
F-0650	IMU_Xchn_SEL	TELEM'IMU'STATUS(0,10)	CYCEEXEC'CPL	AACS	STATUS	1	10	F-0210/10
F-0651	IMU_Zchn_SEL	TELEM'IMU'STATUS(0,11)	CYCEEXEC'CPL	AACS	STATUS	1	11	F-0210/11
F-0652	IMU_DATA_SEL	TELEM'IMU'STATUS(0,12)	CYCEEXEC'CPL	AACS	STATUS	1	12	F-0210/12
F-0653	IMU_G3_STAT	TELEM'IMU'STATUS(0,13)	CYCEEXEC'CPL	AACS	STATUS	1	13	F-0210/13
F-0654	IMU_G2_STAT	TELEM'IMU'STATUS(0,14)	CYCEEXEC'CPL	AACS	STATUS	1	14	F-0210/14
F-0655	IMU_G1_STAT	TELEM'IMU'STATUS(0,15)	CYCEEXEC'CPL	AACS	STATUS	1	15	F-0210/15
F-0642	CS_TRI_B_SEL	TELEM'IMU'STATUS(0,2)	CYCEEXEC'CPL	AACS	STATUS	1	2	F-0210/02
F-0643	CS_TRI_A_SEL	TELEM'IMU'STATUS(0,3)	CYCEEXEC'CPL	AACS	STATUS	1	3	F-0210/03
F-0644	IMU_TEST_SEL	TELEM'IMU'STATUS(0,4)	CYCEEXEC'CPL	AACS	STATUS	1	4	F-0210/04
F-0645	IMU_RATE_SEL	TELEM'IMU'STATUS(0,5)	CYCEEXEC'CPL	AACS	STATUS	1	5	F-0210/05
F-0646	IMU_STW1_06	TELEM'IMU'STATUS(0,6)	CYCEEXEC'CPL	AACS	UNSIGNED	1	6	F-0210/06
F-0647	IMU_STW1_07	TELEM'IMU'STATUS(0,7)	CYCEEXEC'CPL	AACS	UNSIGNED	1	7	F-0210/07
F-0648	IMU_FORMAT	TELEM'IMU'STATUS(0,8)	CYCEEXEC'CPL	AACS	STATUS	1	8	F-0210/08
F-0649	IMU_Ychn_SEL	TELEM'IMU'STATUS(0,9)	CYCEEXEC'CPL	AACS	STATUS	1	9	F-0210/09
F-0211	IMU_ST_WD2	TELEM'IMU'STATUS(1)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0212	IMU_ST_WD3	TELEM'IMU'STATUS(2)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0213	IMU_ST_WD4	TELEM'IMU'STATUS(3)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0214	IMU_ST_WD5	TELEM'IMU'STATUS(4)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0215	IMU_ST_WD6	TELEM'IMU'STATUS(5)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0216	IMU_ST_WD7	TELEM'IMU'STATUS(6)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0217	IMU_ST_WD8	TELEM'IMU'STATUS(7)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0218	IMU_ST_WD9	TELEM'IMU'STATUS(8)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0219	IMU_ST_WD10	TELEM'IMU'STATUS(9)	CYCEEXEC'CPL	AACS	DIGITAL	16	0	
F-0442	SSA_RAW_DET	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	DIGITAL	16	0	F-0442
F-0860	SSA_RAW_D_00	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	UNSIGNED	8	0	F-0442/00
F-0868	SSA_MODE_SEL	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	1	8	F-0442/08
F-0869	SSA_SUN_SEEN	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	1	9	F-0442/09
F-0870	SSA_CMD_DET	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	3	10	F-0442/10
F-0873	SSA_AUTO_DET	TELEM'NEWSSA'STATUS	CYCEEXEC'CPL	AACS	STATUS	3	13	F-0442/13
F-0440	SSA_RAW_RET	TELEM'RETICLE	CYCEEXEC'CPL	AACS	DIGITAL	16	0	F-0440
F-0840	SSA_RET_A_GC	TELEM'RETICLE	CYCEEXEC'CPL	AACS	UNSIGNED	8	0	F-0440/00
F-0848	SSA_RET_B_GC	TELEM'RETICLE	CYCEEXEC'CPL	AACS	UNSIGNED	8	8	F-0440/08
F-1018	CE_TIME_DIFF	TIME'DIFF	CYCEEXEC'CPL	CDH	SIGNED	32	0	
F-1019	CE_TOT_MSG_L	TOTAL'MSGS'LOSTERRORS	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1020	CE_TOT_Q_ERR	TOTAL'QUEUE'ERRORS	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1021	CE_WAKEUPFI	WAKEUP'TASK'FI'COUNT	CYCEEXEC'CPL	CDH	UNSIGNED	16	0	
F-1010	CE_DISCRETE	CYCEEXEC'DISCRETE	CYCEEXEC'PRESET	CDH	STATUS	1	0	
F-1062	EIS_FLPT_OF	FLOFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1063	EIS_FLPT_UF	FLUFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1061	EIS_FIXPT_OF	FXOFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1064	EIS_ILL_EXEC	ILLEXEC'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1066	EIS_LVL0_ERR	LVL0ISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1069	EIS_MER_PgOF	MERR'OFFSETADDRESS	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-1068	EIS_MER_PAGE	MERR'PAGE NUMBER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1067	EIS_MACH_ERR	MERRISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1070	EIS_RT_FAULT	RUNTIME'FAULT'REGISTER	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-1071	EIS_SEF_ERRRW	SEFERROR'REGISTER	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	
F-1073	EIS_SEF_PgOF	SEFOFFSET'ADDRESS	ERROR'INT'STATS'CPL	CDH	DIGITAL	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1072	EIS_SEF_PAGE	SEFPAGE'NUMBER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1060	EIS_1BITERCT	SEFISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1074	EIS_SPR_INT	SPARISR'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-1065	EIS_ISR_TIMA	TIMAIRS'R'COUNTER	ERROR'INT'STATS'CPL	CDH	UNSIGNED	16	0	
F-0535	THrOnT_ME	TOTAL'THR'TIME(0)	MANUVR'THRTIM'CPL	AACS	FLOAT	32	0	
F-0521	THrOnT_01	TOTAL'THR'TIME(1)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0530	THrOnT_10	TOTAL'THR'TIME(10)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0531	THrOnT_11	TOTAL'THR'TIME(11)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0532	THrOnT_12	TOTAL'THR'TIME(12)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0522	THrOnT_02	TOTAL'THR'TIME(2)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0523	THrOnT_03	TOTAL'THR'TIME(3)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0524	THrOnT_04	TOTAL'THR'TIME(4)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0525	THrOnT_05	TOTAL'THR'TIME(5)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0526	THrOnT_06	TOTAL'THR'TIME(6)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0527	THrOnT_07	TOTAL'THR'TIME(7)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0528	THrOnT_08	TOTAL'THR'TIME(8)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0529	THrOnT_09	TOTAL'THR'TIME(9)	MANUVR'THRTIM'CPL	AACS	SIGNED	16	0	
F-0003	ACC_BIAS_+Z	CAL'ACC'BIAS(0)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0001	ACC_BIAS_-X	CAL'ACC'BIAS(1)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0002	ACC_BIAS_-Y	CAL'ACC'BIAS(2)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0004	ACC_BIAS_+S	CAL'ACC'BIAS(3)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0227	MANUVR_FLAG	MANUVRFLAGS	MANUVR'VARS'CPL	AACS	DIGITAL	16	0	
F-0228	MANUVR_STATE	MANUVRSTATE	MANUVR'VARS'CPL	AACS	STATUS	4	12	
F-0268	MOI_STATUS	MOI'STATE	MANUVR'VARS'CPL	AACS	STATUS	4	12	
F-0287	PID_INT_X	PID'INT'TERM(0)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0288	PID_INT_Y	PID'INT'TERM(1)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0289	PID_INT_Z	PID'INT'TERM(2)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0061	DELTAV_X	TOTAL'DELTA'V(0)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0062	DELTAV_Y	TOTAL'DELTA'V(1)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0063	DELTAV_Z	TOTAL'DELTA'V(2)	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-0060	DELTAV_DUR	TOTAL'MANUVR'DURATION	MANUVR'VARS'CPL	AACS	SIGNED	16	0	
F-1090	MCHK_ITTR_CT	MEMCHKITERATIONS	MEMCHK'CPL	CDH	UNSIGNED	32	0	
F-1094	MINISEQ_STAT	MINI'SEQ'STATUS	MINI'SEQ'CPL	CDH	DIGITAL	16	0	F-1094
F-1600	MINISEQ_ACTV	MINI'SEQ'STATUS(0)	MINI'SEQ'CPL	CDH	STATUS	1	0	F-1094/00
F-1601	MINISEQ_CMDE	MINI'SEQ'STATUS(1)	MINI'SEQ'CPL	CDH	STATUS	1	1	F-1094/01
F-1602	MINISEQ_TAGE	MINI'SEQ'STATUS(2)	MINI'SEQ'CPL	CDH	STATUS	1	2	F-1094/02
F-1603	MINISEQ_CNTE	MINI'SEQ'STATUS(3)	MINI'SEQ'CPL	CDH	STATUS	1	3	F-1094/03
F-1604	MINISEQ_COMP	MINI'SEQ'STATUS(4)	MINI'SEQ'CPL	CDH	STATUS	1	4	F-1094/04
F-1605	MINISEQ_05	MINI'SEQ'STATUS(5)	MINI'SEQ'CPL	CDH	UNSIGNED	3	5	F-1094/05
F-1608	MINISEQ_CEXC	MINI'SEQ'STATUS(8)	MINI'SEQ'CPL	CDH	UNSIGNED	8	8	F-1094/08
F-2013	BAT1_TMP_AVE	AVRG'TEMP(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2063	BAT2_TMP_AVE	AVRG'TEMP(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2020	BAT1_BD_I_CT	BAD'CURR'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2070	BAT2_BD_I_CT	BAD'CURR'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2021	BAT1_BD_T_CT	BAD'TEMP'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2071	BAT2_BD_T_CT	BAD'TEMP'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2001	BAT1_ASOC	BATT'ASOC(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2051	BAT2_ASOC	BATT'ASOC(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2002	BAT1_TSOC	BATT'TSOC(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2052	BAT2_TSOC	BATT'SSOC(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2025	BAT1_DAY_CT	BCUR'DAY'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2075	BAT2_DAY_CT	BCUR'DAY'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2026	BAT1_NTE_CT	BCUR'NITE'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2076	BAT2_NTE_CT	BCUR'NITE'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2003	BAT1_CDRATIO	CD'RATIO(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2053	BAT2_CDRATIO	CD'RATIO(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2007	BAT1_CHG_I	CHRG'CURR(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2057	BAT2_CHG_I	CHRG'CURR(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2030	BAT1_CP_CMD	CP'CMD(0)	POWER'MGMT'CPL	PWR	STATUS	4	12	
F-2080	BAT2_CP_CMD	CP'CMD(1)	POWER'MGMT'CPL	PWR	STATUS	4	12	
F-2031	BAT1_CP_TLM	CP'TLM(0)	POWER'MGMT'CPL	PWR	STATUS	4	12	
F-2081	BAT2_CP_TLM	CP'TLM(1)	POWER'MGMT'CPL	PWR	STATUS	4	12	
F-2032	BAT1_CR_CMD	CR'CMD(0)	POWER'MGMT'CPL	PWR	STATUS	2	14	
F-2082	BAT2_CR_CMD	CR'CMD(1)	POWER'MGMT'CPL	PWR	STATUS	2	14	
F-2033	BAT1_CR_TLM	CR'TLM(0)	POWER'MGMT'CPL	PWR	STATUS	2	14	
F-2083	BAT2_CR_TLM	CR'TLM(1)	POWER'MGMT'CPL	PWR	STATUS	2	14	
F-2009	BAT1_DCH_I	DCHG'CURR(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2059	BAT2_DCH_I	DCHG'CURR(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2022	BAT1_HI_D_CT	DCHG'HI'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2072	BAT2_HI_D_CT	DCHG'HI'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2004	BAT1_CDR_DN	DN'CD'RATIO(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2054	BAT2_CDR_DN	DN'CD'RATIO(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2008	BAT1_CHG_I_F	FILT'CHRG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2058	BAT2_CHG_I_F	FILT'CHRG(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2010	BAT1_DCH_I_F	FILT'DCHG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2060	BAT2_DCH_I_F	FILT'DCHG(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2014	BAT1_TMP_GRD	GRAD'TEMP(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2064	BAT2_TMP_GRD	GRAD'TEMP(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2023	BAT1_HI_T_CT	HI'TEMP'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2073	BAT2_HI_T_CT	HI'TEMP'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2005	BAT1_INT_CHG	INTG'CHRG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2055	BAT2_INT_CHG	INTG'CHRG(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2006	BAT1_INT_DCH	INTG'DCHG(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2056	BAT2_INT_DCH	INTG'DCHG(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2040	BAT1_LAST_I	LAST'CURR'TLM(0)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2090	BAT2_LAST_I	LAST'CURR'TLM(1)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2110	PSE_LAST_CMD	LAST'PSE'CMD	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2041	BAT1_LAST_T	LAST'TEMP'TLM(0)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2091	BAT2_LAST_T	LAST'TEMP'TLM(1)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2011	BAT1_TEMP_1	PACKA'TEMP(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2061	BAT2_TEMP_1	PACKA'TEMP(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2012	BAT1_TEMP_2	PACKB'TEMP(0)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2062	BAT2_TEMP_2	PACKB'TEMP(1)	POWER'MGMT'CPL	PWR	SIGNED	16	0	
F-2145	PWR_FLGS_WRD	POWER'FLAGS	POWER'MGMT'CPL	PWR	DIGITAL	16	0	F-2145
F-2220	PF00_B1B2Low	POWER'FLAGS(0)	POWER'MGMT'CPL	PWR	STATUS	1	0	F-2145/00
F-2221	PF01_B1LoSOC	POWER'FLAGS(1)	POWER'MGMT'CPL	PWR	STATUS	1	1	F-2145/01
F-2230	PF10_B2HiDcg	POWER'FLAGS(10)	POWER'MGMT'CPL	PWR	STATUS	1	10	F-2145/10
F-2231	PF11_B2cdrHi	POWER'FLAGS(11)	POWER'MGMT'CPL	PWR	STATUS	1	11	F-2145/11

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2232	PF12_B2cdrLo	POWER'FLAGS(12)	POWER'MGMT'CPL	PWR	STATUS	1	12	F-2145/12
F-2233	PF13_B2T3rdW	POWER'FLAGS(13)	POWER'MGMT'CPL	PWR	STATUS	1	13	F-2145/13
F-2234	PF14_B2T2ndW	POWER'FLAGS(14)	POWER'MGMT'CPL	PWR	STATUS	1	14	F-2145/14
F-2235	PF15_B2T1stW	POWER'FLAGS(15)	POWER'MGMT'CPL	PWR	STATUS	1	15	F-2145/15
F-2222	PF02_B1HiDcg	POWER'FLAGS(2)	POWER'MGMT'CPL	PWR	STATUS	1	2	F-2145/02
F-2223	PF03_B1cdrHi	POWER'FLAGS(3)	POWER'MGMT'CPL	PWR	STATUS	1	3	F-2145/03
F-2224	PF04_B1cdrLo	POWER'FLAGS(4)	POWER'MGMT'CPL	PWR	STATUS	1	4	F-2145/04
F-2225	PF05_B1T3rdW	POWER'FLAGS(5)	POWER'MGMT'CPL	PWR	STATUS	1	5	F-2145/05
F-2226	PF06_B1T2ndW	POWER'FLAGS(6)	POWER'MGMT'CPL	PWR	STATUS	1	6	F-2145/06
F-2227	PF07_B1T1stW	POWER'FLAGS(7)	POWER'MGMT'CPL	PWR	STATUS	1	7	F-2145/07
F-2228	PF08_B1B2Chg	POWER'FLAGS(8)	POWER'MGMT'CPL	PWR	STATUS	1	8	F-2145/08
F-2229	PF09_B2LoSOC	POWER'FLAGS(9)	POWER'MGMT'CPL	PWR	STATUS	1	9	F-2145/09
F-2150	PWR_STAT_WRD	POWER'STATUS	POWER'MGMT'CPL	PWR	DIGITAL	16	0	F-2150
F-2240	PS00_MC_Cmds	POWER'STATUS(0)	POWER'MGMT'CPL	PWR	STATUS	1	0	F-2150/00
F-2241	PS01_B1_LwVT	POWER'STATUS(1)	POWER'MGMT'CPL	PWR	STATUS	1	1	F-2150/01
F-2250	PS10_B2_CRR	POWER'STATUS(10)	POWER'MGMT'CPL	PWR	STATUS	1	10	F-2150/10
F-2251	PS11_B2_Itlm	POWER'STATUS(11)	POWER'MGMT'CPL	PWR	STATUS	1	11	F-2150/11
F-2252	PS12_B2_DTC	POWER'STATUS(12)	POWER'MGMT'CPL	PWR	STATUS	1	12	F-2150/12
F-2253	PS13_B2_BCR	POWER'STATUS(13)	POWER'MGMT'CPL	PWR	STATUS	1	13	F-2150/13
F-2254	PS14_B2_VT	POWER'STATUS(14)	POWER'MGMT'CPL	PWR	STATUS	1	14	F-2150/14
F-2255	PS15_B2_TtIm	POWER'STATUS(15)	POWER'MGMT'CPL	PWR	STATUS	1	15	F-2150/15
F-2242	PS02_B1_CRR	POWER'STATUS(2)	POWER'MGMT'CPL	PWR	STATUS	1	2	F-2150/02
F-2243	PS03_B1_Itlm	POWER'STATUS(3)	POWER'MGMT'CPL	PWR	STATUS	1	3	F-2150/03
F-2244	PS04_B1_DTC	POWER'STATUS(4)	POWER'MGMT'CPL	PWR	STATUS	1	4	F-2150/04
F-2245	PS05_B1_BCR	POWER'STATUS(5)	POWER'MGMT'CPL	PWR	STATUS	1	5	F-2150/05
F-2246	PS06_B1_VT	POWER'STATUS(6)	POWER'MGMT'CPL	PWR	STATUS	1	6	F-2150/06
F-2247	PS07_B1_TtIm	POWER'STATUS(7)	POWER'MGMT'CPL	PWR	STATUS	1	7	F-2150/07
F-2248	PS08_SUN_ON	POWER'STATUS(8)	POWER'MGMT'CPL	PWR	STATUS	1	8	F-2150/08
F-2249	PS09_B2_LwVT	POWER'STATUS(9)	POWER'MGMT'CPL	PWR	STATUS	1	9	F-2150/09
F-2101	PSE_CMDSENT1	PSE'CMD'SENT(1)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2102	PSE_CMDSENT2	PSE'CMD'SENT(2)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2103	PSE_CMDSENT3	PSE'CMD'SENT(3)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2104	PSE_CMDSENT4	PSE'CMD'SENT(4)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2105	PSE_CMDSENT5	PSE'CMD'SENT(5)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2106	PSE_CMDSENT6	PSE'CMD'SENT(6)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2107	PSE_CMDSENT7	PSE'CMD'SENT(7)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2108	PSE_CMDSENT8	PSE'CMD'SENT(8)	POWER'MGMT'CPL	PWR	DIGITAL	16	0	
F-2111	PSE_QFULL_CT	PSE'QUE'FULL'COUNT	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2121	SCSC_DAY_CT	SCSC'DAY'CNT	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2122	SCSC_NTE_CT	SCSC'NITE'CNT	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2123	SOLAR_DAY_CT	SOLA'DAY'CNT	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2124	SOLAR_NTE_CT	SOLA'NITE'CNT	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2260	VS00_B1_VT	VERIFY'STAT(0)	POWER'MGMT'CPL	PWR	STATUS	1	0	F-2155/00
F-2261	VS01_B2_VT	VERIFY'STAT(1)	POWER'MGMT'CPL	PWR	STATUS	1	1	F-2155/01
F-2270	VS10_B1B2_VT	VERIFY'STAT(10)	POWER'MGMT'CPL	PWR	STATUS	1	10	F-2155/10
F-2271	VS11_B1_CR	VERIFY'STAT(11)	POWER'MGMT'CPL	PWR	STATUS	1	11	F-2155/11
F-2272	VS12_B2_CR	VERIFY'STAT(12)	POWER'MGMT'CPL	PWR	STATUS	1	12	F-2155/12
F-2273	VS13_B1B2_CR	VERIFY'STAT(13)	POWER'MGMT'CPL	PWR	STATUS	1	13	F-2155/13
F-2274	VS14_MC_BVR	VERIFY'STAT(14)	POWER'MGMT'CPL	PWR	STATUS	1	14	F-2155/14

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2275	VS15_CHGPATH	VERIFY'STAT(15)	POWER'MGMT'CPL	PWR	STATUS	1	15	F-2155/15
F-2262	VS02_B1B2_VT	VERIFY'STAT(2)	POWER'MGMT'CPL	PWR	STATUS	1	2	F-2155/02
F-2263	VS03_B1_CR	VERIFY'STAT(3)	POWER'MGMT'CPL	PWR	STATUS	1	3	F-2155/03
F-2264	VS04_B2_CR	VERIFY'STAT(4)	POWER'MGMT'CPL	PWR	STATUS	1	4	F-2155/04
F-2265	VS05_B1B2_CR	VERIFY'STAT(5)	POWER'MGMT'CPL	PWR	STATUS	1	5	F-2155/05
F-2266	VS06_MC_BVR	VERIFY'STAT(6)	POWER'MGMT'CPL	PWR	STATUS	1	6	F-2155/06
F-2267	VS07_CHGPATH	VERIFY'STAT(7)	POWER'MGMT'CPL	PWR	STATUS	1	7	F-2155/07
F-2268	VS08_B1_VT	VERIFY'STAT(8)	POWER'MGMT'CPL	PWR	STATUS	1	8	F-2155/08
F-2269	VS09_B2_VT	VERIFY'STAT(9)	POWER'MGMT'CPL	PWR	STATUS	1	9	F-2155/09
F-2155	VERIFY_STAT	VERIFY'STATUS	POWER'MGMT'CPL	PWR	DIGITAL	16	0	F-2155
F-2024	BAT1_HI_V_CT	VOLT'HI'CNT(0)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2074	BAT2_HI_V_CT	VOLT'HI'CNT(1)	POWER'MGMT'CPL	PWR	UNSIGNED	16	0	
F-2036	BAT1_VT_CMD	VT'CMD(0)	POWER'MGMT'CPL	PWR	STATUS	3	13	
F-2086	BAT2_VT_CMD	VT'CMD(1)	POWER'MGMT'CPL	PWR	STATUS	3	13	
F-2034	BAT1_VTS_CMD	VT'SHFTS'CMD(0)	POWER'MGMT'CPL	PWR	STATUS	1	15	
F-2084	BAT2_VTS_CMD	VT'SHFTS'CMD(1)	POWER'MGMT'CPL	PWR	STATUS	1	15	
F-2035	BAT1_VTS_TLM	VT'SHFTS'TLM(0)	POWER'MGMT'CPL	PWR	STATUS	1	15	
F-2085	BAT2_VTS_TLM	VT'SHFTS'TLM(1)	POWER'MGMT'CPL	PWR	STATUS	1	15	
F-2037	BAT1_VT_TLM	VT'TLM(0)	POWER'MGMT'CPL	PWR	STATUS	3	13	
F-2087	BAT2_VT_TLM	VT'TLM(1)	POWER'MGMT'CPL	PWR	STATUS	3	13	
F-2140	PWR_ENA_WORD	POWER'MGMT'ENABLE	POWER'MGMT'PRESET	PWR	DIGITAL	16	0	F-2140
F-2200	PE00_B1TCntl	POWER'MGMT'ENABLE(0)	POWER'MGMT'PRESET	PWR	STATUS	1	0	F-2140/00
F-2201	PE01_B2TCntl	POWER'MGMT'ENABLE(1)	POWER'MGMT'PRESET	PWR	STATUS	1	1	F-2140/01
F-2210	PE10_CntAlrt	POWER'MGMT'ENABLE(10)	POWER'MGMT'PRESET	PWR	STATUS	1	10	F-2140/10
F-2211	PE11_TlmVerf	POWER'MGMT'ENABLE(11)	POWER'MGMT'PRESET	PWR	STATUS	1	11	F-2140/11
F-2212	PE12_IScript	POWER'MGMT'ENABLE(12)	POWER'MGMT'PRESET	PWR	STATUS	1	12	F-2140/12
F-2213	PE13_EScript	POWER'MGMT'ENABLE(13)	POWER'MGMT'PRESET	PWR	STATUS	1	13	F-2140/13
F-2202	PE02_B1Ifilt	POWER'MGMT'ENABLE(2)	POWER'MGMT'PRESET	PWR	STATUS	1	2	F-2140/02
F-2203	PE03_B2Ifilt	POWER'MGMT'ENABLE(3)	POWER'MGMT'PRESET	PWR	STATUS	1	3	F-2140/03
F-2204	PE04_B1ChCnt	POWER'MGMT'ENABLE(4)	POWER'MGMT'PRESET	PWR	STATUS	1	4	F-2140/04
F-2205	PE05_B2ChCnt	POWER'MGMT'ENABLE(5)	POWER'MGMT'PRESET	PWR	STATUS	1	5	F-2140/05
F-2206	PE06_B1ChRtR	POWER'MGMT'ENABLE(6)	POWER'MGMT'PRESET	PWR	STATUS	1	6	F-2140/06
F-2207	PE07_B2ChRtR	POWER'MGMT'ENABLE(7)	POWER'MGMT'PRESET	PWR	STATUS	1	7	F-2140/07
F-2208	PE08_BCR_Sw1	POWER'MGMT'ENABLE(8)	POWER'MGMT'PRESET	PWR	STATUS	1	8	F-2140/08
F-2209	PE09_BCR_Sw2	POWER'MGMT'ENABLE(9)	POWER'MGMT'PRESET	PWR	STATUS	1	9	F-2140/09
F-1000	AUDIT_Q_CNT	AUDITQUE'DEScriptor	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1001	AUDIT_Q_LOST	AUDITQUE'DEScriptor	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1031	CV_Q_COUNT	CVQUEUE'DEScriptor	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1047	EDF_PKT_0	EDF'SUBCOMP'PACKET	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1048	EDF_PKT_1	EDFSUBCOMP'PACKET	QUEUE'CPL	CDH	UNSIGNED	16	0	
F-1171	RDM_AUTENSCP	AUTO'SCP'SWITCH'ENABLE	REDMAN'CPL	CDH	STATUS	4	12	
F-1008	AUTOENAB_1	AUTONOMOUS'ENABLE	REDMAN'CPL	CDH	DIGITAL	16	0	F-1008
F-1009	AUTOENAB_2	AUTONOMOUS'ENABLE	REDMAN'CPL	CDH	DIGITAL	16	0	F-1009
F-1500	AUTOEN1_BUS	AUTONOMOUS'ENABLE(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1008/00
F-1660	AUTOEN2_MHSA	AUTONOMOUS'ENABLE(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1009/00
F-1501	AUTOEN1_CLK	AUTONOMOUS'ENABLE(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1008/01
F-1661	AUTOEN2_CSA	AUTONOMOUS'ENABLE(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1009/01
F-1510	AUTOEN1_MOT	AUTONOMOUS'ENABLE(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1008/10
F-1670	AUTOEN2_SP10	AUTONOMOUS'ENABLE(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1009/10

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1511	AUTOEN1_PSE	AUTONOMOUS'ENABLE(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1008/11
F-1671	AUTOEN2_SP11	AUTONOMOUS'ENABLE(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1009/11
F-1512	AUTOEN1_SAP	AUTONOMOUS'ENABLE(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1008/12
F-1672	AUTOEN2_SP12	AUTONOMOUS'ENABLE(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1009/12
F-1513	AUTOEN1_HGA	AUTONOMOUS'ENABLE(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1008/13
F-1673	AUTOEN2_SP13	AUTONOMOUS'ENABLE(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1009/13
F-1514	AUTOEN1_SAM	AUTONOMOUS'ENABLE(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1008/14
F-1674	AUTOEN2_SP14	AUTONOMOUS'ENABLE(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1009/14
F-1515	AUTOEN1_ATT	AUTONOMOUS'ENABLE(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1008/15
F-1675	AUTOEN2_SP15	AUTONOMOUS'ENABLE(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1009/15
F-1502	AUTOEN1_SSA	AUTONOMOUS'ENABLE(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1008/02
F-1662	AUTOEN2_TANK	AUTONOMOUS'ENABLE(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1009/02
F-1503	AUTOEN1_RWA	AUTONOMOUS'ENABLE(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1008/03
F-1663	AUTOEN2_REA	AUTONOMOUS'ENABLE(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1009/03
F-1504	AUTOEN1_IMU	AUTONOMOUS'ENABLE(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1008/04
F-1664	AUTOEN2_SP04	AUTONOMOUS'ENABLE(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1009/04
F-1505	AUTOEN1_GYR	AUTONOMOUS'ENABLE(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1008/05
F-1665	AUTOEN2_SP05	AUTONOMOUS'ENABLE(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1009/05
F-1506	AUTOEN1_DTC	AUTONOMOUS'ENABLE(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1008/06
F-1666	AUTOEN2_SP06	AUTONOMOUS'ENABLE(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1009/06
F-1507	AUTOEN1_EDF	AUTONOMOUS'ENABLE(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1008/07
F-1667	AUTOEN2_SP07	AUTONOMOUS'ENABLE(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1009/07
F-1508	AUTOEN1_XSU	AUTONOMOUS'ENABLE(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1008/08
F-1668	AUTOEN2_SP08	AUTONOMOUS'ENABLE(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1009/08
F-1509	AUTOEN1_TWT	AUTONOMOUS'ENABLE(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1008/09
F-1669	AUTOEN2_SP09	AUTONOMOUS'ENABLE(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1009/09
F-1180	RDM_CE_CT_20	CONSEC'ERROR'COUNT(20)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1181	RDM_CE_CT_21	CONSEC'ERROR'COUNT(21)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1182	RDM_CE_CT_22	CONSEC'ERROR'COUNT(22)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1183	RDM_CE_CT_23	CONSEC'ERROR'COUNT(23)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1184	RDM_CE_CT_24	CONSEC'ERROR'COUNT(24)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1185	RDM_CE_CT_25	CONSEC'ERROR'COUNT(25)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1186	RDM_CE_CT_26	CONSEC'ERROR'COUNT(26)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1187	RDM_CE_CT_27	CONSEC'ERROR'COUNT(27)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1188	RDM_CE_CT_28	CONSEC'ERROR'COUNT(28)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1189	RDM_CE_CT_29	CONSEC'ERROR'COUNT(29)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1190	RDM_CE_CT_30	CONSEC'ERROR'COUNT(30)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1191	RDM_CE_CT_31	CONSEC'ERROR'COUNT(31)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1192	RDM_CE_CT_32	CONSEC'ERROR'COUNT(32)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1193	RDM_CE_CT_33	CONSEC'ERROR'COUNT(33)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1194	RDM_CE_CT_34	CONSEC'ERROR'COUNT(34)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1195	RDM_CE_CT_35	CONSEC'ERROR'COUNT(35)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1196	RDM_CE_CT_36	CONSEC'ERROR'COUNT(36)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1197	RDM_CE_CT_37	CONSEC'ERROR'COUNT(37)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1198	RDM_CE_CT_38	CONSEC'ERROR'COUNT(38)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1199	RDM_CE_CT_39	CONSEC'ERROR'COUNT(39)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1200	RDM_CE_CT_40	CONSEC'ERROR'COUNT(40)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1201	RDM_CE_CT_41	CONSEC'ERROR'COUNT(41)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1202	RDM_CE_CT_42	CONSEC'ERROR'COUNT(42)	REDMAN'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1203	RDM_CE_CT_43	CONSECERROR'COUNT(43)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1204	RDM_CE_CT_44	CONSECERROR'COUNT(44)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1205	RDM_CE_CT_45	CONSECERROR'COUNT(45)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1206	RDM_CE_CT_46	CONSECERROR'COUNT(46)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1207	RDM_CE_CT_47	CONSECERROR'COUNT(47)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1208	RDM_CE_CT_48	CONSECERROR'COUNT(48)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1209	RDM_CE_CT_49	CONSECERROR'COUNT(49)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1210	RDM_CE_CT_50	CONSECERROR'COUNT(50)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1211	RDM_CE_CT_51	CONSECERROR'COUNT(51)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1212	RDM_CE_CT_52	CONSECERROR'COUNT(52)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1213	RDM_CE_CT_53	CONSECERROR'COUNT(53)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1214	RDM_CE_CT_54	CONSECERROR'COUNT(54)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1215	RDM_CE_CT_55	CONSECERROR'COUNT(55)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1216	RDM_CE_CT_56	CONSECERROR'COUNT(56)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1217	RDM_CE_CT_57	CONSECERROR'COUNT(57)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1218	RDM_CE_CT_58	CONSECERROR'COUNT(58)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1219	RDM_CE_CT_59	CONSECERROR'COUNT(59)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1220	RDM_CE_CT_60	CONSECERROR'COUNT(60)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1221	RDM_CE_CT_61	CONSECERROR'COUNT(61)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1222	RDM_CE_CT_62	CONSECERROR'COUNT(62)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1223	RDM_CE_CT_63	CONSECERROR'COUNT(63)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1224	RDM_CE_CT_64	CONSECERROR'COUNT(64)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1225	RDM_CE_CT_65	CONSECERROR'COUNT(65)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1226	RDM_CE_CT_66	CONSECERROR'COUNT(66)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1227	RDM_CE_CT_67	CONSECERROR'COUNT(67)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1228	RDM_CE_CT_68	CONSECERROR'COUNT(68)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1229	RDM_CE_CT_69	CONSECERROR'COUNT(69)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1230	RDM_CE_CT_70	CONSECERROR'COUNT(70)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1231	RDM_CE_CT_71	CONSECERROR'COUNT(71)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1232	RDM_CE_CT_72	CONSECERROR'COUNT(72)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1233	RDM_CE_CT_73	CONSECERROR'COUNT(73)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1234	RDM_CE_CT_74	CONSECERROR'COUNT(74)	REDMANCPL	CDH	UNSIGNED	16	0	
F-1340	RDM_SIDE_EDF	CURRENTEDFSIDE	REDMANCPL	CDH	STATUS	4	12	
F-1341	RDM_SIDE_HGA	CURRENTHGA'SIDE	REDMANCPL	CDH	STATUS	4	12	
F-1342	RDM_SIDE_MHS	CURRENTMHSASIDE	REDMANCPL	CDH	STATUS	4	12	
F-1343	RDM_SIDE_PSE	CURRENTPSE'SIDE	REDMANCPL	CDH	STATUS	4	12	
F-1339	RDM_SIDE_RPA	CURRENTRPA'SIDE	REDMANCPL	CDH	STATUS	4	12	
F-1344	RDM_SIDE_SAM	CURRENTSAM'SIDE	REDMANCPL	CDH	STATUS	4	12	
F-1345	RDM_SIDE_SAP	CURRENTSAP'SIDE	REDMANCPL	CDH	STATUS	4	12	
F-1346	RDM_SIDE_SSA	CURRENTSSA'SIDE	REDMANCPL	CDH	STATUS	4	12	
F-1347	RDM_SIDE_XSU	CURRENTXSUSIDE	REDMANCPL	CDH	STATUS	4	12	
F-1034	DEVDEAD_1	DEVICE'DEAD'FLAG	REDMANCPL	CDH	DIGITAL	16	0	F-1034
F-1035	DEVDEAD_2	DEVICE'DEAD'FLAG	REDMANCPL	CDH	DIGITAL	16	0	F-1035
F-1560	DVDEAD1_BUS	DEVICE'DEAD'FLAG(0)	REDMANCPL	CDH	STATUS	1	0	F-1034/00
F-1680	DVDEAD2_MHSA	DEVICE'DEAD'FLAG(0)	REDMANCPL	CDH	STATUS	1	0	F-1035/00
F-1561	DVDEAD1_CLK	DEVICE'DEAD'FLAG(1)	REDMANCPL	CDH	STATUS	1	1	F-1034/01
F-1681	DVDEAD2_CSA	DEVICE'DEAD'FLAG(1)	REDMANCPL	CDH	STATUS	1	1	F-1035/01
F-1570	DVDEAD1_MOT	DEVICE'DEAD'FLAG(10)	REDMANCPL	CDH	STATUS	1	10	F-1034/10
F-1690	DVDEAD2_SP10	DEVICE'DEAD'FLAG(10)	REDMANCPL	CDH	STATUS	1	10	F-1035/10

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1571	DVDEAD1_PSE	DEVICE'DEAD'FLAG(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1034/11
F-1691	DVDEAD2_SP11	DEVICE'DEAD'FLAG(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1035/11
F-1572	DVDEAD1_SAP	DEVICE'DEAD'FLAG(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1034/12
F-1692	DVDEAD2_SP12	DEVICE'DEAD'FLAG(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1035/12
F-1573	DVDEAD1_HGA	DEVICE'DEAD'FLAG(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1034/13
F-1693	DVDEAD2_SP13	DEVICE'DEAD'FLAG(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1035/13
F-1574	DVDEAD1_SAM	DEVICE'DEAD'FLAG(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1034/14
F-1694	DVDEAD2_SP14	DEVICE'DEAD'FLAG(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1035/14
F-1575	DVDEAD1_AACS	DEVICE'DEAD'FLAG(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1034/15
F-1695	DVDEAD2_SP15	DEVICE'DEAD'FLAG(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1035/15
F-1562	DVDEAD1_SSA	DEVICE'DEAD'FLAG(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1034/02
F-1682	DVDEAD2_TANK	DEVICE'DEAD'FLAG(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1035/02
F-1563	DVDEAD1_RWA	DEVICE'DEAD'FLAG(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1034/03
F-1683	DVDEAD2_REA	DEVICE'DEAD'FLAG(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1035/03
F-1564	DVDEAD1_IMU	DEVICE'DEAD'FLAG(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1034/04
F-1684	DVDEAD2_SP04	DEVICE'DEAD'FLAG(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1035/04
F-1565	DVDEAD1_GYRO	DEVICE'DEAD'FLAG(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1034/05
F-1685	DVDEAD2_SP05	DEVICE'DEAD'FLAG(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1035/05
F-1566	DVDEAD1_DTC	DEVICE'DEAD'FLAG(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1034/06
F-1686	DVDEAD2_SP06	DEVICE'DEAD'FLAG(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1035/06
F-1567	DVDEAD1_EDF	DEVICE'DEAD'FLAG(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1034/07
F-1687	DVDEAD2_SP07	DEVICE'DEAD'FLAG(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1035/07
F-1568	DVDEAD1_XSU	DEVICE'DEAD'FLAG(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1034/08
F-1688	DVDEAD2_SP08	DEVICE'DEAD'FLAG(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1035/08
F-1569	DVDEAD1_RPA	DEVICE'DEAD'FLAG(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1034/09
F-1689	DVDEAD2_SP09	DEVICE'DEAD'FLAG(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1035/09
F-1045	EDF_FINISH	EDF'INITIALIZATION'START'TIME	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1240	RDM_EDFonTIM	EDF'INITIALIZATION'START'TIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1170	RDM_ABSNTDAT	ERROR'DATA'ABSENT'COUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1262	RDM_IMU_STAT	EXPECTED'IMU'STATUS'WORD	REDMAN'CPL	CDH	DIGITAL	16	0	
F-1328	RDM_NEEDEDATA	FOLLOW'UP'REQ'DATA'COUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1331	RDM_RWA_FREZ	FREEZE'RWA'CONFIG	REDMAN'CPL	CDH	STATUS	4	12	
F-1252	RDM_GYRONTIM	GYROPOWER'ONTIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1253	RDM_GYROPWSH	GYROPOWER'ONTIME	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1250	RDM_GMSWREN	GYRO'SHORT'RECOVERY'ENABLE	REDMAN'CPL	CDH	STATUS	4	12	
F-1256	RDM_GYscPHSE	GYRO'SHORT'RECOVERY'PHASE	REDMAN'CPL	CDH	STATUS	4	12	
F-1251	RDM_GMWSRST	GYRO'SHORT'RECOVERY'START'TIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1254	RDM_GYRORCSH	GYRO'SHORT'RECOVERY'START'TIME	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1237	RDM_DEV_CFG1	MAIN'DEVICE'CONFIG'INFO	REDMAN'CPL	AACS	DIGITAL	16	0	F-1237
F-1238	RDM_DEV_CFG2	MAIN'DEVICE'CONFIG'INFO	REDMAN'CPL	AACS	DIGITAL	16	0	F-1238
F-1720	RDM_DC1_SSA	MAIN'DEVICE'CONFIG'INFO(0)	REDMAN'CPL	AACS	STATUS	1	0	F-1237/00
F-1740	RDM_DC2_GYRO	MAIN'DEVICE'CONFIG'INFO(0)	REDMAN'CPL	AACS	STATUS	3	0	F-1238/00
F-1721	RDM_DC1_RPA	MAIN'DEVICE'CONFIG'INFO(1)	REDMAN'CPL	AACS	STATUS	1	1	F-1237/01
F-1730	RDM_DC1_SP10	MAIN'DEVICE'CONFIG'INFO(10)	REDMAN'CPL	AACS	STATUS	1	10	F-1237/10
F-1750	RDM_DC2_SP10	MAIN'DEVICE'CONFIG'INFO(10)	REDMAN'CPL	AACS	STATUS	1	10	F-1238/10
F-1731	RDM_DC1_SP11	MAIN'DEVICE'CONFIG'INFO(11)	REDMAN'CPL	AACS	STATUS	1	11	F-1237/11
F-1751	RDM_DC2_SP11	MAIN'DEVICE'CONFIG'INFO(11)	REDMAN'CPL	AACS	STATUS	1	11	F-1238/11
F-1732	RDM_DC1_SP12	MAIN'DEVICE'CONFIG'INFO(12)	REDMAN'CPL	AACS	STATUS	1	12	F-1237/12
F-1752	RDM_DC2_SP12	MAIN'DEVICE'CONFIG'INFO(12)	REDMAN'CPL	AACS	STATUS	1	12	F-1238/12

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1733	RDM_DC1_SP13	MAIN'DEVICE'CONFIG'INFO(13)	REDMAN'CPL	AACS	STATUS	1	13	F-1237/13
F-1753	RDM_DC2_SP13	MAIN'DEVICE'CONFIG'INFO(13)	REDMAN'CPL	AACS	STATUS	1	13	F-1238/13
F-1734	RDM_DC1_SP14	MAIN'DEVICE'CONFIG'INFO(14)	REDMAN'CPL	AACS	STATUS	1	14	F-1237/14
F-1754	RDM_DC2_SP14	MAIN'DEVICE'CONFIG'INFO(14)	REDMAN'CPL	AACS	STATUS	1	14	F-1238/14
F-1735	RDM_DC1_SP15	MAIN'DEVICE'CONFIG'INFO(15)	REDMAN'CPL	AACS	STATUS	1	15	F-1237/15
F-1755	RDM_DC2_SP15	MAIN'DEVICE'CONFIG'INFO(15)	REDMAN'CPL	AACS	STATUS	1	15	F-1238/15
F-1722	RDM_DC1_EDF	MAIN'DEVICE'CONFIG'INFO(2)	REDMAN'CPL	AACS	STATUS	1	2	F-1237/02
F-1723	RDM_DC1_XSU	MAIN'DEVICE'CONFIG'INFO(3)	REDMAN'CPL	AACS	STATUS	1	3	F-1237/03
F-1743	RDM_DC2_RWA	MAIN'DEVICE'CONFIG'INFO(3)	REDMAN'CPL	AACS	STATUS	4	3	F-1238/03
F-1724	RDM_DC1_PSE	MAIN'DEVICE'CONFIG'INFO(4)	REDMAN'CPL	AACS	STATUS	1	4	F-1237/04
F-1725	RDM_DC1_SAP	MAIN'DEVICE'CONFIG'INFO(5)	REDMAN'CPL	AACS	STATUS	1	5	F-1237/05
F-1726	RDM_DC1_SAM	MAIN'DEVICE'CONFIG'INFO(6)	REDMAN'CPL	AACS	STATUS	1	6	F-1237/06
F-1727	RDM_DC1_HGA	MAIN'DEVICE'CONFIG'INFO(7)	REDMAN'CPL	AACS	STATUS	1	7	F-1237/07
F-1747	RDM_DC2_FRWA	MAIN'DEVICE'CONFIG'INFO(7)	REDMAN'CPL	AACS	STATUS	1	7	F-1238/07
F-1728	RDM_DC1_MHSA	MAIN'DEVICE'CONFIG'INFO(8)	REDMAN'CPL	AACS	STATUS	1	8	F-1237/08
F-1748	RDM_DC2_REA	MAIN'DEVICE'CONFIG'INFO(8)	REDMAN'CPL	AACS	STATUS	2	8	F-1238/08
F-1729	RDM_DC1_SP09	MAIN'DEVICE'CONFIG'INFO(9)	REDMAN'CPL	AACS	STATUS	1	9	F-1237/09
F-1260	RDM_IMURCOVT	MISSED'IMU'INTRCVRY'START'TIME	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1261	RDM_IMUTWMIS	MISSED'IMU'INTRCVRY'START'TIME	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1255	RDM_GYRO_CNF	ORIGINAL'CHANNEL'CONFIG	REDMAN'CPL	CDH	STATUS	4	12	
F-1330	RDM_RWA_CNGF	ORIGINAL'RWA'CONFIG	REDMAN'CPL	CDH	STATUS	4	12	
F-1172	RDM_BADMSGCT	REDMSG'BAD'TYPE'COUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1350	RDM_TE_CT_20	REDMAN'TOTAL'ERROR'COUNT(20)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1351	RDM_TE_CT_21	REDMAN'TOTAL'ERROR'COUNT(21)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1352	RDM_TE_CT_22	REDMAN'TOTAL'ERROR'COUNT(22)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1353	RDM_TE_CT_23	REDMAN'TOTAL'ERROR'COUNT(23)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1354	RDM_TE_CT_24	REDMAN'TOTAL'ERROR'COUNT(24)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1355	RDM_TE_CT_25	REDMAN'TOTAL'ERROR'COUNT(25)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1356	RDM_TE_CT_26	REDMAN'TOTAL'ERROR'COUNT(26)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1357	RDM_TE_CT_27	REDMAN'TOTAL'ERROR'COUNT(27)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1358	RDM_TE_CT_28	REDMAN'TOTAL'ERROR'COUNT(28)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1359	RDM_TE_CT_29	REDMAN'TOTAL'ERROR'COUNT(29)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1360	RDM_TE_CT_30	REDMAN'TOTAL'ERROR'COUNT(30)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1361	RDM_TE_CT_31	REDMAN'TOTAL'ERROR'COUNT(31)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1362	RDM_TE_CT_32	REDMAN'TOTAL'ERROR'COUNT(32)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1363	RDM_TE_CT_33	REDMAN'TOTAL'ERROR'COUNT(33)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1364	RDM_TE_CT_34	REDMAN'TOTAL'ERROR'COUNT(34)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1365	RDM_TE_CT_35	REDMAN'TOTAL'ERROR'COUNT(35)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1366	RDM_TE_CT_36	REDMAN'TOTAL'ERROR'COUNT(36)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1367	RDM_TE_CT_37	REDMAN'TOTAL'ERROR'COUNT(37)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1368	RDM_TE_CT_38	REDMAN'TOTAL'ERROR'COUNT(38)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1369	RDM_TE_CT_39	REDMAN'TOTAL'ERROR'COUNT(39)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1370	RDM_TE_CT_40	REDMAN'TOTAL'ERROR'COUNT(40)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1371	RDM_TE_CT_41	REDMAN'TOTAL'ERROR'COUNT(41)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1372	RDM_TE_CT_42	REDMAN'TOTAL'ERROR'COUNT(42)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1373	RDM_TE_CT_43	REDMAN'TOTAL'ERROR'COUNT(43)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1374	RDM_TE_CT_44	REDMAN'TOTAL'ERROR'COUNT(44)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1375	RDM_TE_CT_45	REDMAN'TOTAL'ERROR'COUNT(45)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1376	RDM_TE_CT_46	REDMAN'TOTAL'ERROR'COUNT(46)	REDMAN'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1377	RDM_TE_CT_47	REDMAN'TOTAL'ERROR'COUNT(47)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1378	RDM_TE_CT_48	REDMAN'TOTAL'ERROR'COUNT(48)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1379	RDM_TE_CT_49	REDMAN'TOTAL'ERROR'COUNT(49)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1380	RDM_TE_CT_50	REDMAN'TOTAL'ERROR'COUNT(50)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1381	RDM_TE_CT_51	REDMAN'TOTAL'ERROR'COUNT(51)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1382	RDM_TE_CT_52	REDMAN'TOTAL'ERROR'COUNT(52)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1383	RDM_TE_CT_53	REDMAN'TOTAL'ERROR'COUNT(53)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1384	RDM_TE_CT_54	REDMAN'TOTAL'ERROR'COUNT(54)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1385	RDM_TE_CT_55	REDMAN'TOTAL'ERROR'COUNT(55)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1386	RDM_TE_CT_56	REDMAN'TOTAL'ERROR'COUNT(56)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1387	RDM_TE_CT_57	REDMAN'TOTAL'ERROR'COUNT(57)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1388	RDM_TE_CT_58	REDMAN'TOTAL'ERROR'COUNT(58)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1389	RDM_TE_CT_59	REDMAN'TOTAL'ERROR'COUNT(59)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1390	RDM_TE_CT_60	REDMAN'TOTAL'ERROR'COUNT(60)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1391	RDM_TE_CT_61	REDMAN'TOTAL'ERROR'COUNT(61)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1392	RDM_TE_CT_62	REDMAN'TOTAL'ERROR'COUNT(62)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1393	RDM_TE_CT_63	REDMAN'TOTAL'ERROR'COUNT(63)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1394	RDM_TE_CT_64	REDMAN'TOTAL'ERROR'COUNT(64)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1395	RDM_TE_CT_65	REDMAN'TOTAL'ERROR'COUNT(65)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1396	RDM_TE_CT_66	REDMAN'TOTAL'ERROR'COUNT(66)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1397	RDM_TE_CT_67	REDMAN'TOTAL'ERROR'COUNT(67)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1398	RDM_TE_CT_68	REDMAN'TOTAL'ERROR'COUNT(68)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1399	RDM_TE_CT_69	REDMAN'TOTAL'ERROR'COUNT(69)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1400	RDM_TE_CT_70	REDMAN'TOTAL'ERROR'COUNT(70)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1401	RDM_TE_CT_71	REDMAN'TOTAL'ERROR'COUNT(71)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1402	RDM_TE_CT_72	REDMAN'TOTAL'ERROR'COUNT(72)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1403	RDM_TE_CT_73	REDMAN'TOTAL'ERROR'COUNT(73)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1404	RDM_TE_CT_74	REDMAN'TOTAL'ERROR'COUNT(74)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1405	RDM_TE_CT_75	REDMAN'TOTAL'ERROR'COUNT(75)	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-1348	RDMN_SW_SUM1	SWITCH'SUMMARY	REDMAN'CPL	CDH	DIGITAL	16	0	F-1348
F-1349	RDMN_SW_SUM2	SWITCH'SUMMARY	REDMAN'CPL	CDH	DIGITAL	16	0	F-1349
F-1640	RDS1_SW_BUS	SWITCH'SUMMARY(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1348/00
F-1700	RDS2_TNKOP1L	SWITCH'SUMMARY(0)	REDMAN'CPL	CDH	STATUS	1	0	F-1349/00
F-1641	RDS1_SW_SSA	SWITCH'SUMMARY(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1348/01
F-1701	RDS2_SPARE01	SWITCH'SUMMARY(1)	REDMAN'CPL	CDH	STATUS	1	1	F-1349/01
F-1650	RDS1_SW_HGA	SWITCH'SUMMARY(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1348/10
F-1710	RDS2_TWTAFILE	SWITCH'SUMMARY(10)	REDMAN'CPL	CDH	STATUS	1	10	F-1349/10
F-1651	RDS1_SW_B11	SWITCH'SUMMARY(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1348/11
F-1711	RDS2_SPARE11	SWITCH'SUMMARY(11)	REDMAN'CPL	CDH	STATUS	1	11	F-1349/11
F-1652	RDS1_SW_B12	SWITCH'SUMMARY(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1348/12
F-1712	RDS2_SPARE12	SWITCH'SUMMARY(12)	REDMAN'CPL	CDH	STATUS	1	12	F-1349/12
F-1653	RDS1_SW_B13	SWITCH'SUMMARY(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1348/13
F-1713	RDS2_SPARE13	SWITCH'SUMMARY(13)	REDMAN'CPL	CDH	STATUS	1	13	F-1349/13
F-1654	RDS1_SW_B14	SWITCH'SUMMARY(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1348/14
F-1714	RDS2_SPARE14	SWITCH'SUMMARY(14)	REDMAN'CPL	CDH	STATUS	1	14	F-1349/14
F-1655	RDS1_SW_B15	SWITCH'SUMMARY(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1348/15
F-1715	RDS2_SPARE15	SWITCH'SUMMARY(15)	REDMAN'CPL	CDH	STATUS	1	15	F-1349/15
F-1642	RDS1_SW_IMU	SWITCH'SUMMARY(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1348/02
F-1702	RDS2_TNKOP2L	SWITCH'SUMMARY(2)	REDMAN'CPL	CDH	STATUS	1	2	F-1349/02

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1643	RDS1_SW_EDF	SWITCH'SUMMARY(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1348/03
F-1703	RDS2_SPARE03	SWITCH'SUMMARY(3)	REDMAN'CPL	CDH	STATUS	1	3	F-1349/03
F-1644	RDS1_SW_XSU	SWITCH'SUMMARY(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1348/04
F-1704	RDS2_TNKUPL	SWITCH'SUMMARY(4)	REDMAN'CPL	CDH	STATUS	1	4	F-1349/04
F-1645	RDS1_SW_RPA	SWITCH'SUMMARY(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1348/05
F-1705	RDS2_SW2REA	SWITCH'SUMMARY(5)	REDMAN'CPL	CDH	STATUS	1	5	F-1349/05
F-1646	RDS1_SW_MOT	SWITCH'SUMMARY(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1348/06
F-1706	RDS2_SW2SUNA	SWITCH'SUMMARY(6)	REDMAN'CPL	CDH	STATUS	1	6	F-1349/06
F-1647	RDS1_SW_PSE	SWITCH'SUMMARY(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1348/07
F-1707	RDS2_SW_REA	SWITCH'SUMMARY(7)	REDMAN'CPL	CDH	STATUS	1	7	F-1349/07
F-1648	RDS1_SW_SAP	SWITCH'SUMMARY(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1348/08
F-1708	RDS2_REA1ISO	SWITCH'SUMMARY(8)	REDMAN'CPL	CDH	STATUS	1	8	F-1349/08
F-1649	RDS1_SW_SAM	SWITCH'SUMMARY(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1348/09
F-1709	RDS2_REA2ISO	SWITCH'SUMMARY(9)	REDMAN'CPL	CDH	STATUS	1	9	F-1349/09
F-1270	RDM_LETIME20	TIME'OF'LAST'ERROR(20)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1271	RDM_LETIME21	TIME'OF'LAST'ERROR(21)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1272	RDM_LETIME22	TIME'OF'LAST'ERROR(22)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1273	RDM_LETIME23	TIME'OF'LAST'ERROR(23)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1274	RDM_LETIME24	TIME'OF'LAST'ERROR(24)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1275	RDM_LETIME25	TIME'OF'LAST'ERROR(25)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1276	RDM_LETIME26	TIME'OF'LAST'ERROR(26)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1277	RDM_LETIME27	TIME'OF'LAST'ERROR(27)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1278	RDM_LETIME28	TIME'OF'LAST'ERROR(28)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1279	RDM_LETIME29	TIME'OF'LAST'ERROR(29)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1280	RDM_LETIME30	TIME'OF'LAST'ERROR(30)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1281	RDM_LETIME31	TIME'OF'LAST'ERROR(31)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1282	RDM_LETIME32	TIME'OF'LAST'ERROR(32)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1283	RDM_LETIME33	TIME'OF'LAST'ERROR(33)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1284	RDM_LETIME34	TIME'OF'LAST'ERROR(34)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1285	RDM_LETIME35	TIME'OF'LAST'ERROR(35)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1286	RDM_LETIME36	TIME'OF'LAST'ERROR(36)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1287	RDM_LETIME37	TIME'OF'LAST'ERROR(37)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1288	RDM_LETIME38	TIME'OF'LAST'ERROR(38)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1289	RDM_LETIME39	TIME'OF'LAST'ERROR(39)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1290	RDM_LETIME40	TIME'OF'LAST'ERROR(40)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1291	RDM_LETIME41	TIME'OF'LAST'ERROR(41)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1292	RDM_LETIME42	TIME'OF'LAST'ERROR(42)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1293	RDM_LETIME43	TIME'OF'LAST'ERROR(43)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1294	RDM_LETIME44	TIME'OF'LAST'ERROR(44)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1295	RDM_LETIME45	TIME'OF'LAST'ERROR(45)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1296	RDM_LETIME46	TIME'OF'LAST'ERROR(46)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1297	RDM_LETIME47	TIME'OF'LAST'ERROR(47)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1298	RDM_LETIME48	TIME'OF'LAST'ERROR(48)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1299	RDM_LETIME49	TIME'OF'LAST'ERROR(49)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1300	RDM_LETIME50	TIME'OF'LAST'ERROR(50)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1301	RDM_LETIME51	TIME'OF'LAST'ERROR(51)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1302	RDM_LETIME52	TIME'OF'LAST'ERROR(52)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1303	RDM_LETIME53	TIME'OF'LAST'ERROR(53)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1304	RDM_LETIME54	TIME'OF'LAST'ERROR(54)	REDMAN'CPL	CDH	UNSIGNED	32	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1305	RDM_LETIME55	TIME'OF'LAST'ERROR(55)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1306	RDM_LETIME56	TIME'OF'LAST'ERROR(56)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1307	RDM_LETIME57	TIME'OF'LAST'ERROR(57)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1308	RDM_LETIME58	TIME'OF'LAST'ERROR(58)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1309	RDM_LETIME59	TIME'OF'LAST'ERROR(59)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1310	RDM_LETIME60	TIME'OF'LAST'ERROR(60)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1311	RDM_LETIME61	TIME'OF'LAST'ERROR(61)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1312	RDM_LETIME62	TIME'OF'LAST'ERROR(62)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1313	RDM_LETIME63	TIME'OF'LAST'ERROR(63)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1314	RDM_LETIME64	TIME'OF'LAST'ERROR(64)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1315	RDM_LETIME65	TIME'OF'LAST'ERROR(65)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1316	RDM_LETIME66	TIME'OF'LAST'ERROR(66)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1317	RDM_LETIME67	TIME'OF'LAST'ERROR(67)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1318	RDM_LETIME68	TIME'OF'LAST'ERROR(68)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1319	RDM_LETIME69	TIME'OF'LAST'ERROR(69)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1320	RDM_LETIME70	TIME'OF'LAST'ERROR(70)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1321	RDM_LETIME71	TIME'OF'LAST'ERROR(71)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1322	RDM_LETIME72	TIME'OF'LAST'ERROR(72)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1323	RDM_LETIME73	TIME'OF'LAST'ERROR(73)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1324	RDM_LETIME74	TIME'OF'LAST'ERROR(74)	REDMAN'CPL	CDH	UNSIGNED	32	0	
F-1408	RDM_XS_ERRS	TOOMANYFOLLOWUPCOUNT	REDMAN'CPL	CDH	UNSIGNED	16	0	
F-0420	SELT_BRATE_X	BODY'RATE(0)	SELTS'CPL	AACS	SIGNED	16	0	
F-0421	SELT_BRATE_Y	BODY'RATE(1)	SELTS'CPL	AACS	SIGNED	16	0	
F-0422	SELT_BRATE_Z	BODY'RATE(2)	SELTS'CPL	AACS	SIGNED	16	0	
F-0541	IMU_DRIFT_1	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0542	IMU_DRIFT_2	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0543	IMU_DRIFT_3	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0544	IMU_DRIFT_4	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0545	IMU_DRIFT_5	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0546	IMU_DRIFT_6	IMUDRIFT	SELTS'CPL	AACS	FLOAT	32	0	
F-0428	SELT_Q_A2B_1	QUATBFROMA(0)	SELTS'CPL	AACS	SIGNED	16	0	
F-0429	SELT_Q_A2B_2	QUATBFROMA(1)	SELTS'CPL	AACS	SIGNED	16	0	
F-0430	SELT_Q_A2B_3	QUATBFROMA(2)	SELTS'CPL	AACS	SIGNED	16	0	
F-0431	SELT_Q_R2B_1	QUATBFROMR(0)	SELTS'CPL	AACS	SIGNED	16	0	
F-0432	SELT_Q_R2B_2	QUATBFROMR(1)	SELTS'CPL	AACS	SIGNED	16	0	
F-0433	SELT_Q_R2B_3	QUATBFROMR(2)	SELTS'CPL	AACS	SIGNED	16	0	
F-0434	SELT_Q_R2B_4	QUATBFROMR(3)	SELTS'CPL	AACS	SIGNED	16	0	
F-0427	SELT_PTCH_ER	SELTSPITCH	SELTS'CPL	AACS	SIGNED	16	0	
F-0435	SELT_ROLL_ER	SELTSPROLL	SELTS'CPL	AACS	SIGNED	16	0	
F-0436	SELT_YAW_ER	SELTSYAW	SELTS'CPL	AACS	SIGNED	16	0	
F-0423	SELT_DYINV0	INV'INERTIA'DYADIC(0)	SELTS'PRESET	AACS	SIGNED	16	0	
F-0424	SELT_DYINV4	INV'INERTIA'DYADIC(4)	SELTS'PRESET	AACS	SIGNED	16	0	
F-0425	SELT_DYINV8	INV'INERTIA'DYADIC(8)	SELTS'PRESET	AACS	SIGNED	16	0	
F-0426	SELT_MHSATS	MHSA'TEST'SET'ON	SELTS'PRESET	AACS	DIGITAL	16	0	
F-1100	PDS_INTER	PDS'INTERRUPTCOUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1101	PDS_SENT	PDS'MESSAGES'SENT'COUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1102	PDS_SEQNO	PDSSEQUENCE'NUMBER	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1103	PDS_TMOUT_CT	PDSTIMEOUTCOUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-1104	PDS_TO_SEQNO	PDSTIMEOUTSEQ'NUM	SENDPDS'CPL	CDH	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1105	PDS_UNXMSGCT	PDS'UNEXPECTEDMSGTYPE'COUNT	SENDPDS'CPL	CDH	UNSIGNED	16	0	
F-0477	SUN_SUBM_SM	SUN'CONTROL'SUBMODE	SM'AACS2'CPL	AACS	STATUS	4	12	
F-0514	THR_SM_01_02	TLM'ACCUM(1)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0519	THR_SM_12_10	TLM'ACCUM(11)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0515	THR_SM_03_04	TLM'ACCUM(3)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0516	THR_SM_05_06	TLM'ACCUM(5)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0517	THR_SM_07_08	TLM'ACCUM(7)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-0518	THR_SM_09_11	TLM'ACCUM(9)	SM'AACS2'CPL	AACS	UNSIGNED	16	0	
F-1236	RDM_CONTMODE	CONT'MODE'FLAGS	SMOEXEC'CPL	CDH	STATUS	4	12	
F-1620	MP_MGS_SEP1	MISSION'PHASE'BUFFER(0)	SMOEXEC'CPL	CDH	STATUS	1	0	F-1096/00
F-1621	MP_MPR3	MISSION'PHASE'BUFFER(1)	SMOEXEC'CPL	CDH	STATUS	1	1	F-1096/01
F-1630	MP_MGS_SEP4	MISSION'PHASE'BUFFER(10)	SMOEXEC'CPL	CDH	STATUS	1	10	F-1096/10
F-1631	MP_LIFTOFF2	MISSION'PHASE'BUFFER(11)	SMOEXEC'CPL	CDH	STATUS	1	11	F-1096/11
F-1632	MP_POB_ECHO3	MISSION'PHASE'BUFFER(12)	SMOEXEC'CPL	CDH	STATUS	1	12	F-1096/12
F-1633	MP_SCP_ID	MISSION'PHASE'BUFFER(13)	SMOEXEC'CPL	CDH	STATUS	3	13	F-1096/13
F-1622	MP_POB_ECHO1	MISSION'PHASE'BUFFER(2)	SMOEXEC'CPL	CDH	STATUS	1	2	F-1096/02
F-1623	MP_03	MISSION'PHASE'BUFFER(3)	SMOEXEC'CPL	CDH	STATUS	1	3	F-1096/03
F-1624	MP_MGS_SEP2	MISSION'PHASE'BUFFER(4)	SMOEXEC'CPL	CDH	STATUS	1	4	F-1096/04
F-1625	MP_MGS_SEP3	MISSION'PHASE'BUFFER(5)	SMOEXEC'CPL	CDH	STATUS	1	5	F-1096/05
F-1626	MP_MPR2	MISSION'PHASE'BUFFER(6)	SMOEXEC'CPL	CDH	STATUS	1	6	F-1096/06
F-1627	MP_POB_ECHO2	MISSION'PHASE'BUFFER(7)	SMOEXEC'CPL	CDH	STATUS	1	7	F-1096/07
F-1628	MP_MPR1	MISSION'PHASE'BUFFER(8)	SMOEXEC'CPL	CDH	STATUS	1	8	F-1096/08
F-1629	MP_LIFTOFF1	MISSION'PHASE'BUFFER(9)	SMOEXEC'CPL	CDH	STATUS	1	9	F-1096/09
F-1421	SMOEX_PKD_ST	PACKED'SMOEXEC'STATE	SMOEXEC'CPL	CDH	DIGITAL	16	0	
F-1420	SMOEX_ENABLs	SMOEXEC'ENABLES	SMOEXEC'PRESET	CDH	DIGITAL	16	0	
F-0550	STRX_CAISSANG	ANGLE'BP'FROM'L	STAREX'CPL	AACS	SIGNED	16	0	
F-0170	GYbiasCOR_X	B'GYRO'BIAS'CORR(0)	STAREX'CPL	AACS	SIGNED	16	0	
F-0171	GYbiasCOR_Y	B'GYRO'BIAS'CORR(1)	STAREX'CPL	AACS	SIGNED	16	0	
F-0172	GYbiasCOR_Z	B'GYRO'BIAS'CORR(2)	STAREX'CPL	AACS	SIGNED	16	0	
F-0006	BIAS_CNVG_X	BIAS'STATUS	STAREX'CPL	AACS	DIGITAL	16	0	
F-0007	BIAS_CNVG_Y	BIAS'STATUS	STAREX'CPL	AACS	DIGITAL	16	0	
F-0008	BIAS_CNVG_Z	BIAS'STATUS	STAREX'CPL	AACS	DIGITAL	16	0	
F-0455	STRX_MULSTAR	CONS'MULT'CAND	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0462	STRX_UNIDSTR	CONS'UNID'TRANS	STAREX'CPL	AACS	UNSIGNED	16	0	
F-0551	STRX_CORTEST	CORR'TEST	STAREX'CPL	AACS	SIGNED	16	0	
F-0010	COVAR_11(0)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0011	COVAR_11(1)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0012	COVAR_11(2)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0013	COVAR_11(3)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0014	COVAR_11(4)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0015	COVAR_11(5)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0016	COVAR_11(6)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0017	COVAR_11(7)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0018	COVAR_11(8)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0020	COVAR_12(0)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0021	COVAR_12(1)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0022	COVAR_12(2)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0023	COVAR_12(3)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	
F-0024	COVAR_12(4)	COVAR	STAREX'CPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0025	COVAR_12(5)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0026	COVAR_12(6)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0027	COVAR_12(7)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0028	COVAR_12(8)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0030	COVAR_22(0)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0031	COVAR_22(1)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0032	COVAR_22(2)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0033	COVAR_22(3)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0034	COVAR_22(4)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0035	COVAR_22(5)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0036	COVAR_22(6)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0037	COVAR_22(7)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0038	COVAR_22(8)	COVAR	STAREXCPL	AACS	SIGNED	16	0	
F-0450	STRX_CMRESET	CUM'SISRESET'CNT	STAREXCPL	AACS	UNSIGNED	16	0	
F-0065	DOTPROD_MULT	DOTPROD'MULT	STAREXCPL	AACS	SIGNED	16	0	
F-0451	STRX_HIRATIO	HIGHEST'RATIO	STAREXCPL	AACS	SIGNED	16	0	
F-0454	STRX_MAXBIN	MAXBIN	STAREXCPL	AACS	UNSIGNED	16	0	
F-0554	STRX_MB_CNTS	MAXBIN'COUNTS	STAREXCPL	AACS	UNSIGNED	16	0	
F-0559	STRX_NOIZVAR	MEAS'NOISE'VAR	STAREXCPL	AACS	SIGNED	16	0	
F-0555	STRX_MVEC_X	MEAS'VEC(0)	STAREXCPL	AACS	SIGNED	16	0	
F-0556	STRX_MVEC_Y	MEAS'VEC(1)	STAREXCPL	AACS	SIGNED	16	0	
F-0557	STRX_MVEC_Z	MEAS'VEC(2)	STAREXCPL	AACS	SIGNED	16	0	
F-0456	STRX_NEXTBIN	NEXBIN	STAREXCPL	AACS	UNSIGNED	16	0	
F-0558	STRX_NB_CNTS	NEXBIN'COUNTS	STAREXCPL	AACS	UNSIGNED	16	0	
F-0452	STRX_IDTRNNO	NUM'IDENT'TRANS	STAREXCPL	AACS	UNSIGNED	16	0	
F-0463	STRX_VALTRNS	NUM'VALID'TRANS	STAREXCPL	AACS	UNSIGNED	16	0	
F-0280	O_NORMAL_0	O'NORMAL(0)	STAREXCPL	AACS	SIGNED	16	0	
F-0281	O_NORMAL_1	O'NORMAL(1)	STAREXCPL	AACS	SIGNED	16	0	
F-0282	O_NORMAL_2	O'NORMAL(2)	STAREXCPL	AACS	SIGNED	16	0	
F-0457	STRX_PULSECT	PULSE'SLIT'COUNT	STAREXCPL	AACS	UNSIGNED	16	0	
F-0305	QUAT_CORR_1	Q'B'FROM'E'CORR'FOR'A10(0)	STAREXCPL	AACS	SIGNED	16	0	
F-0306	QUAT_CORR_2	Q'B'FROM'E'CORR'FOR'A10(1)	STAREXCPL	AACS	SIGNED	16	0	
F-0307	QUAT_CORR_3	Q'B'FROM'E'CORR'FOR'A10(2)	STAREXCPL	AACS	SIGNED	16	0	
F-0308	QUAT_CORR_4	Q'B'FROM'E'CORR'FOR'A10(3)	STAREXCPL	AACS	SIGNED	16	0	
F-0311	QUAT_E2L_1	QTRNL'FROM'E(0)	STAREXCPL	AACS	SIGNED	16	0	
F-0312	QUAT_E2L_2	QTRNL'FROM'E(1)	STAREXCPL	AACS	SIGNED	16	0	
F-0313	QUAT_E2L_3	QTRNL'FROM'E(2)	STAREXCPL	AACS	SIGNED	16	0	
F-0314	QUAT_E2L_4	QTRNL'FROM'E(3)	STAREXCPL	AACS	SIGNED	16	0	
F-0490	STRX_ATGAINX	S'ATT'GAIN(0)	STAREXCPL	AACS	SIGNED	16	0	
F-0491	STRX_ATGAINY	S'ATT'GAIN(1)	STAREXCPL	AACS	SIGNED	16	0	
F-0492	STRX_ATGAINZ	S'ATT'GAIN(2)	STAREXCPL	AACS	SIGNED	16	0	
F-0495	STRX_BSGAINX	S'BIAS'GAIN(0)	STAREXCPL	AACS	SIGNED	16	0	
F-0496	STRX_BSGAINY	S'BIAS'GAIN(1)	STAREXCPL	AACS	SIGNED	16	0	
F-0497	STRX_BSGAINZ	S'BIAS'GAIN(2)	STAREXCPL	AACS	SIGNED	16	0	
F-0461	STRX_S_RESET	SIS'RESET'COUNT	STAREXCPL	AACS	UNSIGNED	16	0	
F-0458	STRX_SLIT_ID	SLIT'ID	STAREXCPL	AACS	UNSIGNED	16	0	
F-0180	GYbiasEST_XA	ST'ST'BIASES(0)	STAREXCPL	AACS	SIGNED	16	0	
F-0182	GYbiasEST YA	ST'ST'BIASES(1)	STAREXCPL	AACS	SIGNED	16	0	
F-0184	GYbiasEST_ZA	ST'ST'BIASES(2)	STAREXCPL	AACS	SIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-0181	GYbiasEST_XB	ST'ST'BIASES(3)	STAREXCPL	AACS	SIGNED	16	0	
F-0183	GYbiasEST_YB	ST'ST'BIASES(4)	STAREXCPL	AACS	SIGNED	16	0	
F-0185	GYbiasEST_ZB	ST'ST'BIASES(5)	STAREXCPL	AACS	SIGNED	16	0	
F-0552	STRX_DOTLOS	STAR'DOT'LOS	STAREXCPL	AACS	SIGNED	16	0	
F-0553	STRX_DOTPROD	STAR'DOT'PROD	STAREXCPL	AACS	SIGNED	16	0	
F-0459	STRX_STAR_ID	STAR'ID'NO	STAREXCPL	AACS	UNSIGNED	16	0	
F-0460	STRX_STATE	STAREX'STATE	STAREXCPL	AACS	STATUS	4	12	
F-0464	STRX_WORD	STAREX'STATUS	STAREXCPL	AACS	DIGITAL	16	0	
F-0448	STIME	STIME	STAREXCPL	AACS	SIGNED	16	0	
F-0560	STRX_SC_SLIT	SUCCESS'SLIT	STAREXCPL	AACS	UNSIGNED	16	0	
F-0561	STRX_TRANSTS	TRANSITS'PER'SEC	STAREXCPL	AACS	UNSIGNED	16	0	
F-1041	EDF_ERR_CNT1	EDFERROR'MATRIX	SUBCOMCPL	CDH	UNSIGNED	16	0	
F-1042	EDF_ERR_CNT2	EDFERROR'MATRIX	SUBCOMCPL	CDH	UNSIGNED	16	0	
F-1043	EDF_ERR_MAT1	EDFERROR'MATRIX	SUBCOMCPL	CDH	DIGITAL	16	0	
F-1044	EDF_ERR_MAT2	EDFERROR'MATRIX	SUBCOMCPL	CDH	DIGITAL	16	0	
F-2131	PWR_DATA_W01	POWER'DATA	SUBCOMCPL	PWR	DIGITAL	16	0	
F-2132	PWR_DATA_W07	POWER'DATA	SUBCOMCPL	PWR	DIGITAL	16	0	
F-2133	PWR_DATA_W08	POWER'DATA	SUBCOMCPL	PWR	DIGITAL	16	0	
F-2134	PWR_DATA_W09	POWER'DATA	SUBCOMCPL	PWR	DIGITAL	16	0	
F-2135	PWR_DATA_W10	POWER'DATA	SUBCOMCPL	PWR	DIGITAL	16	0	
F-1049	EDF_SCLKTIME	SPACECRAFT'TIME	SUBCOMCPL	CDH	UNSIGNED	32	0	
F-3021	LGA_TIMER	LGA'CYCLE'TIMER	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-3042	TLCM_DSW2	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	DIGITAL	16	0	F-3042
F-3220	TD2_TWTA_ST	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	0	F-3042/00
F-3221	TD2_PWR_MGMT	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	1	F-3042/01
F-3222	TD2_TWTApmEN	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	2	F-3042/02
F-3223	TD2_DNL_ANT	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	2	3	F-3042/03
F-3225	TD2_RPA1_H_I	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	5	F-3042/05
F-3226	TD2_RPA2_H_I	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	6	F-3042/06
F-3227	TD2_TWTA1sHV	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	7	F-3042/07
F-3228	TD2_TWTA2sHV	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	8	F-3042/08
F-3229	TD2_TRNofFIL	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	9	F-3042/09
F-3230	TD2_BEAMcmON	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	10	F-3042/10
F-3231	TD2_TRNonFIL	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	11	F-3042/11
F-3232	TD2_SPARE12	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	12	F-3042/12
F-3233	TD2_SPARE13	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	13	F-3042/13
F-3234	TD2_SPARE14	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	14	F-3042/14
F-3235	TD2_SPARE15	MORETELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	15	F-3042/15
F-3050	TLCM_SEQ_TD	TELECOM'CMD'SEQTIME'DELAY	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-3040	TLCM_DSW1	TELECOM'DISCRETES	TELECOM'CPL	TLCM	DIGITAL	16	0	F-3040
F-3200	TD1_UPL_ANT	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	0	F-3040/00
F-3201	TD1_SEL_MOT	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	1	F-3040/01
F-3202	TD1_SEL_RPA	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	2	F-3040/02
F-3203	TD1_SEL_XSU	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	3	F-3040/03
F-3204	TD1_MOT_EXC	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	4	F-3040/04
F-3205	TD1_RPA_BEAM	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	5	F-3040/05
F-3206	TD1_TLCM_CMD	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	6	F-3040/06
F-3207	TD1_BEAM_UP	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	7	F-3040/07
F-3208	TD1_TLCM_SUB	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	8	F-3040/08

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-3209	TD1_MOT_CHKD	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	9	F-3040/09
F-3210	TD1_MOToutOK	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	10	F-3040/10
F-3211	TD1_RPA_CHKD	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	11	F-3040/11
F-3212	TD1_USO_ENAB	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	12	F-3040/12
F-3213	TD1_PDSnotOK	TELECOM'DISCRETES	TELECOM'CPL	TLCM	STATUS	1	13	F-3040/13
F-3214	TD1_SPARE14	TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	14	F-3040/14
F-3215	TD1_SPARE15	TELECOM'DISCRETES	TELECOM'CPL	TLCM	UNSIGNED	1	15	F-3040/15
F-3044	TLCM_MODE	TELECOM'MODE	TELECOM'CPL	TLCM	STATUS	3	13	
F-3051	TLCM_SUBCOM1	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3052	TLCM_SUBCOM2	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3053	TLCM_SUBCOM3	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3054	TLCM_SUBCOM4	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3055	TLCM_SUBCOM5	TELECOM'SUBCOM'MESSAGE	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3031	PDS_notOK_CT	TOTAL'PDS'NOT'OK'COUNT	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-3100	XSU_CMD_WORD	XSU'CMD'WORD	TELECOM'CPL	TLCM	DIGITAL	16	0	
F-3101	XSU_Q_COUNT	XSU'QUE'COUNT	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-3102	XSU_Q_FULL	XSU'QUE'FULL'COUNT	TELECOM'CPL	TLCM	UNSIGNED	16	0	
F-3010	CMD_LOSS_TMR	COMMAND'LOSSTIMER	TELECOM'INIT	TLCM	UNSIGNED	16	0	
F-3046	TLCM_PARM	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	DIGITAL	16	0	F-3046
F-3240	TDP_MOTrcvTL	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	0	F-3046/00
F-3241	TDP_MOTexcTL	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	1	F-3046/01
F-3242	TDP_RPA_TLM	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	2	F-3046/02
F-3243	TDP_PDS_TLM	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	3	F-3046/03
F-3244	TDP_RFinSW_T	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	4	F-3046/04
F-3245	TDP_RFouSW_T	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	1	5	F-3046/05
F-3246	TDP_SPARE06	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	UNSIGNED	1	6	F-3046/06
F-3247	TDP_SPARE07	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	UNSIGNED	1	7	F-3046/07
F-3248	TDP_MOTequST	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	8	F-3046/08
F-3250	TDP_RPAequST	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	10	F-3046/10
F-3252	TDP_RFinSW_S	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	12	F-3046/12
F-3254	TDP_RFouSW_S	TELECOM'DISCRETE'PARAMETERS	TELECOM'INIT	TLCM	STATUS	2	14	F-3046/14
F-3060	UPLK_TIMEOUT	UPLINK'TIMEOUT	TELECOM'INIT	TLCM	UNSIGNED	16	0	
F-3000	BEAM_DELAY	CONTINGENCY'BEAM'ON'DELAY	TELECOM'PRESET	TLCM	UNSIGNED	16	0	
F-3020	LGA_CYCLE	LGA'CYCLE'PERIOD	TELECOM'PRESET	TLCM	UNSIGNED	16	0	
F-3030	PDS_MAXnotOK	MAX'CONSEC'PDS'NOT'OK	TELECOM'PRESET	TLCM	UNSIGNED	16	0	
F-1030	CV_DATA_WORD	CV'WORD	TELEMETRY'CPL	CDH	DIGITAL	16	0	
F-1040	EDF_ERROR_CT	EDFERROR'COUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1046	EDF_INTER_CT	EDFINTRUPTCOUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1414	SCP_FRAME_ID	MINOR'FRAME'NUMBER	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1410	SCP_DATAFAUL	TLM'DATA'READ'FAULT'COUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1411	SCP_DUMPFAUL	TLM'DUMP'READ'FAULT'COUNT	TELEMETRY'CPL	CDH	UNSIGNED	16	0	
F-1412	SCP_EMRTLMNO	EMERGENCY'TLM'VERSION	TELEMETRY'TABLES'PRESET	CDH	UNSIGNED	16	0	
F-1413	SCP_ENGTLMNO	ENGINEERING'TLM'VERSION	TELEMETRY'TABLES'PRESET	CDH	UNSIGNED	16	0	
F-2500	BSC_EM-X_T1	BAD'SUBCOM'CNTRS(0)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2501	BSC_EM+X_T1	BAD'SUBCOM'CNTRS(1)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2510	BSC_THR_CL4T	BAD'SUBCOM'CNTRS(10)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2511	BSC_NTOtnkT1	BAD'SUBCOM'CNTRS(11)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2512	BSC_NTOtnkT2	BAD'SUBCOM'CNTRS(12)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2513	BSC_HYtnkT1	BAD'SUBCOM'CNTRS(13)	THERMAL'CPL	THRM	UNSIGNED	16	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2514	BSC_HYtnk1T2	BAD'SUBCOM'CNTRS(14)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2515	BSC_HYtnk2T1	BAD'SUBCOM'CNTRS(15)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2516	BSC_HYtnk2T2	BAD'SUBCOM'CNTRS(16)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2517	BSC_PRCNT1_T	BAD'SUBCOM'CNTRS(17)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2518	BSC_PRCNT2_T	BAD'SUBCOM'CNTRS(18)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2519	BSC_SUPVC3_T	BAD'SUBCOM'CNTRS(19)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2502	BSC_EM+Y_T1	BAD'SUBCOM'CNTRS(2)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2520	BSC_SUPVC4_T	BAD'SUBCOM'CNTRS(20)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2521	BSC_SUPVC1_T	BAD'SUBCOM'CNTRS(21)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2522	BSC_SUPVC2_T	BAD'SUBCOM'CNTRS(22)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2523	BSC_TWTenclT	BAD'SUBCOM'CNTRS(23)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2524	BSC_HGAgim1T	BAD'SUBCOM'CNTRS(24)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2525	BSC_HGAgim2T	BAD'SUBCOM'CNTRS(25)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2526	BSC_SA-Ygm1T	BAD'SUBCOM'CNTRS(26)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2527	BSC_SA-Ygm2T	BAD'SUBCOM'CNTRS(27)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2528	BSC_SA+Ygm1T	BAD'SUBCOM'CNTRS(28)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2529	BSC_SA+Ygm2T	BAD'SUBCOM'CNTRS(29)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2503	BSC_BAT1_T1	BAD'SUBCOM'CNTRS(3)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2530	BSC_ME_VLVT1	BAD'SUBCOM'CNTRS(30)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2531	BSC_MHSA_H_T	BAD'SUBCOM'CNTRS(31)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2532	BSC_CSA_T	BAD'SUBCOM'CNTRS(32)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2533	BSC_XSU_T	BAD'SUBCOM'CNTRS(33)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2534	BSC_IMU_BLKT	BAD'SUBCOM'CNTRS(34)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2504	BSC_BAT1_T2	BAD'SUBCOM'CNTRS(4)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2505	BSC_BAT2_T1	BAD'SUBCOM'CNTRS(5)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2506	BSC_BAT2_T2	BAD'SUBCOM'CNTRS(6)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2507	BSC_THR_CL1T	BAD'SUBCOM'CNTRS(7)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2508	BSC_THR_CL2T	BAD'SUBCOM'CNTRS(8)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2509	BSC_THR_CL3T	BAD'SUBCOM'CNTRS(9)	THERMAL'CPL	THRM	UNSIGNED	16	0	
F-2565	DTC_PRI_STAT	PRI'DTCS'OFF	THERMAL'CPL	THRM	DIGITAL	16	0	F-2565
F-2720	DPS_EM-X	PRI'DTCS'OFF(0)	THERMAL'CPL	THRM	STATUS	1	0	F-2565/00
F-2721	DPS_PRS_CL2	PRI'DTCS'OFF(1)	THERMAL'CPL	THRM	STATUS	1	1	F-2565/01
F-2730	DPS_MHSA	PRI'DTCS'OFF(10)	THERMAL'CPL	THRM	STATUS	1	10	F-2565/10
F-2731	DPS_CSA	PRI'DTCS'OFF(11)	THERMAL'CPL	THRM	STATUS	1	11	F-2565/11
F-2732	DPS_SA+Y_GIM	PRI'DTCS'OFF(12)	THERMAL'CPL	THRM	STATUS	1	12	F-2565/12
F-2733	DPS_EM+Y	PRI'DTCS'OFF(13)	THERMAL'CPL	THRM	STATUS	1	13	F-2565/13
F-2734	DPS_PRS_CL1	PRI'DTCS'OFF(14)	THERMAL'CPL	THRM	STATUS	1	14	F-2565/14
F-2735	DPS_EM+X	PRI'DTCS'OFF(15)	THERMAL'CPL	THRM	STATUS	1	15	F-2565/15
F-2722	DPS_BATTERY	PRI'DTCS'OFF(2)	THERMAL'CPL	THRM	STATUS	1	2	F-2565/02
F-2723	DPS_THR_ENCL	PRI'DTCS'OFF(3)	THERMAL'CPL	THRM	STATUS	1	3	F-2565/03
F-2724	DPS_PROP_TNK	PRI'DTCS'OFF(4)	THERMAL'CPL	THRM	STATUS	1	4	F-2565/04
F-2725	DPS_SUPVnCL	PRI'DTCS'OFF(5)	THERMAL'CPL	THRM	STATUS	1	5	F-2565/05
F-2726	DPS_MAIN_ENG	PRI'DTCS'OFF(6)	THERMAL'CPL	THRM	STATUS	1	6	F-2565/06
F-2727	DPS_TWT_HGgm	PRI'DTCS'OFF(7)	THERMAL'CPL	THRM	STATUS	1	7	F-2565/07
F-2728	DPS_IMU_TCA	PRI'DTCS'OFF(8)	THERMAL'CPL	THRM	STATUS	1	8	F-2565/08
F-2729	DPS_SA-Y_GIM	PRI'DTCS'OFF(9)	THERMAL'CPL	THRM	STATUS	1	9	F-2565/09
F-2570	DTC_WARN_FLG	THERM'DTC'STATUS(0)	THERMAL'CPL	THRM	DIGITAL	16	0	F-2570
F-2740	DWF_EM-X	THERM'DTC'STATUS(0)	THERMAL'CPL	THRM	STATUS	1	0	F-2570/00
F-2741	DWF_PRS_CL2	THERM'DTC'STATUS(1)	THERMAL'CPL	THRM	STATUS	1	1	F-2570/01

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-2750	DWF_MHSA	THERM'DTC'STATUS(10)	THERMAL'CPL	THR	STATUS	1	10	F-2570/10
F-2751	DWF_CSA	THERM'DTC'STATUS(11)	THERMAL'CPL	THR	STATUS	1	11	F-2570/11
F-2752	DWF_SA+Y_GIM	THERM'DTC'STATUS(12)	THERMAL'CPL	THR	STATUS	1	12	F-2570/12
F-2753	DWF_EM+Y	THERM'DTC'STATUS(13)	THERMAL'CPL	THR	STATUS	1	13	F-2570/13
F-2754	DWF_PRS_CL1	THERM'DTC'STATUS(14)	THERMAL'CPL	THR	STATUS	1	14	F-2570/14
F-2755	DWF_EM+X	THERM'DTC'STATUS(15)	THERMAL'CPL	THR	STATUS	1	15	F-2570/15
F-2742	DWF_BATTERY	THERM'DTC'STATUS(2)	THERMAL'CPL	THR	STATUS	1	2	F-2570/02
F-2743	DWF_THR_ENCL	THERM'DTC'STATUS(3)	THERMAL'CPL	THR	STATUS	1	3	F-2570/03
F-2744	DWF_PROP_TNK	THERM'DTC'STATUS(4)	THERMAL'CPL	THR	STATUS	1	4	F-2570/04
F-2745	DWF_SUPVlCL	THERM'DTC'STATUS(5)	THERMAL'CPL	THR	STATUS	1	5	F-2570/05
F-2746	DWF_MAIN_ENG	THERM'DTC'STATUS(6)	THERMAL'CPL	THR	STATUS	1	6	F-2570/06
F-2747	DWF_TWT_HGgm	THERM'DTC'STATUS(7)	THERMAL'CPL	THR	STATUS	1	7	F-2570/07
F-2748	DWF_IMU_TCA	THERM'DTC'STATUS(8)	THERMAL'CPL	THR	STATUS	1	8	F-2570/08
F-2749	DWF_SA-Y_GIM	THERM'DTC'STATUS(9)	THERMAL'CPL	THR	STATUS	1	9	F-2570/09
F-2575	XSU_MSG_ENAB	XSUMSG'ENABLE	THERMAL'CPL	THR	DIGITAL	16	0	
F-2560	DTC_ENABLES	THERMAL'PARAMETERS	THERMAL'PRESET	THR	DIGITAL	16	0	
F-1433	TC_HEAD_ACTV	ACTIVE'LIST'HEAD	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1430	TC_ACTV_SCRP	ACTIVE'SCRIPT'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1431	TC_CMD_TIME	COMMAND'TIME	TIMEDCMD'CPL	CDH	UNSIGNED	32	0	
F-1434	TC_INVLPULMS	INVALID'PULSTERM'MSG'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1436	TC_MAX_ADDR	MAX'SCRIPT'ADDRESS	TIMEDCMD'CPL	CDH	DIGITAL	16	0	
F-1439	TC_PD_ISINIT	PULSE'DISCRETES'INITIATED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1440	TC_PD_ISTERM	PULSE'DISCRETE'STTERMINATED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1441	TC_SBUS_EXCT	STORED'BUS'CMD'EXECUTED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1442	TC_SBUS_RJCT	STORED'BUS'CMD'REJECTED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1438	TC_PDS_CMDEX	STORED'PDS'CMD'EXECUTED'COUNT	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1443	TC_SCMD_DATA	STRD'CMD'DATA	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1444	TC_SCMD_OPCODE	STRD'CMD'OPCODE	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1445	TC_SCMD_SORS	STRD'CMD'SOURCE	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1448	TC_UNXMSGTCT	TIMEDCMD'UNEXPECTED'MSGTYPE'CO	TIMEDCMD'CPL	CDH	UNSIGNED	16	0	
F-1435	TC_MAXACTSCR	MAX'ACTIVE'SCRIPTS	TIMEDCMD'PRESET	CDH	UNSIGNED	16	0	
F-1437	TC_NCTOFFS	NON'CONTROLTIME'OFFSET	TIMEDCMD'PRESET	CDH	UNSIGNED	16	0	
F-1446	TC_SCRIPT_ADR	SCRIPTBUFFER'ADDRESS	TIMEDCMD'PRESET	CDH	DIGITAL	16	0	
F-1447	TC_SCRIPT_SIZ	SCRIPTBUFFER'SIZE	TIMEDCMD'PRESET	CDH	UNSIGNED	16	0	
F-1432	TC_DISCRETES	TIMEDCMD'DISCRETES	TIMEDCMD'PRESET	CDH	DIGITAL	16	0	
F-1450	UPL_CIUARMCT	CIU'COMMAND'ARMED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1451	UPL_CIUEXCNT	CIU'COMMAND'EXECUTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1452	UPL_CIUREJCT	CIU'COMMAND'REJECTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1454	UPL_CMDSEQNO	COMMAND'SEQUENCE'NUMBER	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1455	UPL_CRCERRCT	CRC'ERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1456	UPL_DOUBERCT	DOUBLE'ERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1457	UPL_FMTERRCT	FORMATERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1459	UPL_RECVDCNT	FRAMES'RECEIVED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1460	UPL_SCPEXCNT	SCP'COMMAND'EXECUTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1461	UPL SCPREJCT	SCP'COMMAND'REJECTED'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1462	UPL_SEQERRCT	SEQUENCE'ERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1463	UPL_SINGERCT	SINGLE'ERROR'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1464	UPL_UNXMSGCT	UNEXPECTED'MSGTYPE'COUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1453	UPL_CMDEXTIM	UPLINK'COMMAND'EXECUTION'TIME	UPLINK'CPL	CDH	UNSIGNED	32	0	

Chan ID	MOS Mnemonic	Flight Software Name	Flight Software Compool	Sub	Data Type	Bits	Start	Parent
F-1458	UPL_INTRPTCT	UPLINK'INTERRUPTCOUNT	UPLINK'CPL	CDH	UNSIGNED	16	0	
F-1465	UPL_STATUS	UPLINK'STATUS	UPLINK'CPL	CDH	DIGITAL	16	0	F-1465
F-1760	UPLS_CIUCARM	UPLINK'STATUS(0)	UPLINK'CPL	CDH	STATUS	1	0	F-1465/00
F-1761	UPLS_CIUCREJ	UPLINK'STATUS(1)	UPLINK'CPL	CDH	STATUS	1	1	F-1465/01
F-1770	UPLS_SPARE10	UPLINK'STATUS(10)	UPLINK'CPL	CDH	STATUS	1	10	F-1465/10
F-1771	UPLS_SPARE11	UPLINK'STATUS(11)	UPLINK'CPL	CDH	STATUS	1	11	F-1465/11
F-1772	UPLS_SPARE12	UPLINK'STATUS(12)	UPLINK'CPL	CDH	STATUS	1	12	F-1465/12
F-1773	UPLS_BUF_RDY	UPLINK'STATUS(13)	UPLINK'CPL	CDH	STATUS	1	13	F-1465/13
F-1774	UPLS_PICK_B	UPLINK'STATUS(14)	UPLINK'CPL	CDH	STATUS	1	14	F-1465/14
F-1775	UPLS_PICK_A	UPLINK'STATUS(15)	UPLINK'CPL	CDH	STATUS	1	15	F-1465/15
F-1762	UPLS_CIUCEXE	UPLINK'STATUS(2)	UPLINK'CPL	CDH	STATUS	1	2	F-1465/02
F-1763	UPLS_DBLE_ERR	UPLINK'STATUS(3)	UPLINK'CPL	CDH	STATUS	1	3	F-1465/03
F-1764	UPLS_SNG_ERR	UPLINK'STATUS(4)	UPLINK'CPL	CDH	STATUS	1	4	F-1465/04
F-1765	UPLS_DSTCODE	UPLINK'STATUS(5)	UPLINK'CPL	CDH	STATUS	2	5	F-1465/05
F-1767	UPLS_DATA_FR	UPLINK'STATUS(7)	UPLINK'CPL	CDH	STATUS	1	7	F-1465/07
F-1768	UPLS_SPARE08	UPLINK'STATUS(8)	UPLINK'CPL	CDH	STATUS	1	8	F-1465/08
F-1769	UPLS_SPARE09	UPLINK'STATUS(9)	UPLINK'CPL	CDH	STATUS	1	9	F-1465/09
F-0493	S_ATT_PROD_0	S'ATT'PROD(0)		AACS	SIGNED	16	0	
F-0498	S_BIAS_PROD0	S'BIAS'PROD(0)		AACS	SIGNED	16	0	

Appendix E

SCP Telemetry Measurement Data Sheets

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SCP TELEMETRY

F-0000	AACS_STATE	AACS												
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: AAC2GLOBALCPL FSW Name: ATTITUDECNTRLSTATE Scale Factor: ns													
Active attitude control state. This word is a 16-bit integer describing the attitude control state of the spacecraft. The integer values/meanings are:														
<table> <tbody> <tr><td>0 - Sun-Com-Pwr</td><td>6 - Search</td></tr> <tr><td>1 - Sun-Stuck-Gmbl</td><td>7 - CSA Back-up</td></tr> <tr><td>2 - Sun-Star-Init</td><td>8 - Deploy Cntrl</td></tr> <tr><td>3 - ANS</td><td>9 - Launch Tach</td></tr> <tr><td>4 - ISH</td><td></td></tr> <tr><td>5 - MAP</td><td></td></tr> </tbody> </table>			0 - Sun-Com-Pwr	6 - Search	1 - Sun-Stuck-Gmbl	7 - CSA Back-up	2 - Sun-Star-Init	8 - Deploy Cntrl	3 - ANS	9 - Launch Tach	4 - ISH		5 - MAP	
0 - Sun-Com-Pwr	6 - Search													
1 - Sun-Stuck-Gmbl	7 - CSA Back-up													
2 - Sun-Star-Init	8 - Deploy Cntrl													
3 - ANS	9 - Launch Tach													
4 - ISH														
5 - MAP														
Loss of Function: N/A														
Recommended Action:														
Impact of Loss of Tlm: Lose software confirmation about attitude control state. Proper state required to guarantee satellite/mission success.														
Alternate Telemetry: None Related Measurements: <table border="1"> <tbody> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A CCL Process: OFF CCL Param: 0</td><td>State Names: 0 = SUNcommPWR 8 = DEPLOY_CNTL 1 = SUNstuckGMB 9 = LAUNCH_TACH 2 = SUNstarINIT 3 = ANS 4 = ISH 5 = MAP 6 = SEARCH 7 = CSA_b/u</td></tr> </tbody> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SUNcommPWR 8 = DEPLOY_CNTL 1 = SUNstuckGMB 9 = LAUNCH_TACH 2 = SUNstarINIT 3 = ANS 4 = ISH 5 = MAP 6 = SEARCH 7 = CSA_b/u									
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F-0001	ACC_BIAS_-X	AACS												
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRVARSCPL FSW Name: CALACCBIAS(1) Scale Factor: +17													
Calculated Accelerometer Bias (X Axis)														
Loss of Function: N/A														
Recommended Action:														
Impact of Loss of Tlm: Loss of knowledge of SCP calculated acceleration bias.														
Alternate Telemetry: None Related Measurements: <table border="1"> <tbody> <tr> <td>Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: POLY EU Units: m/s CCL Process: OFF CCL Param: 0</td><td>Coefficients: n0 = 0.00000E+00 n1 = 1.52588E-05</td></tr> </tbody> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: m/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.52588E-05									
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: m/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.52588E-05												

SCP TELEMETRY

F-0002	ACC_BIAS_-Y		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRVARSCPL FSW Name: CAL'ACCBIAS(2) Scale Factor: +17		
Calculated Accelerometer Bias (Y Axis)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of knowledge of SCP calculated acceleration bias.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: m/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.52588E-05	
F-0003	ACC_BIAS_+Z		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRVARSCPL FSW Name: CAL'ACCBIAS(0) Scale Factor: +17		
Calculated Accelerometer Bias (Z Axis)			
Loss of Function: None			
Recommended Action:			
Impact of Loss of Tlm: Loss of knowledge of SCP calculated acceleration bias for Z axis.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: m/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.52588E-05	

SCP TELEMETRY

F-0004	ACC_BIAS_+S		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVR'VARSCPL FSW Name: CAL'ACCBIAS(3) Scale Factor: +17		
Calculated Accelerometer Bias (Skew Axis)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of knowledge of SCP calculated bias for Skew axis.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: m/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.52588E-05	
F-0005	ATT_ENABLES		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AACCS2'GLOBALPRESET FSW Name: ATTENABS Scale Factor: ns		
Packed AACCS2 booleans; modified by command only.			
Bit 0 - Back-up Modes Enable Bit 1 - Sun Monitor Ephemeris Enable Bit 2 - Sun Monitor Thrsh Enable Bit 3 - Sun Avoidance Logic Enable Bit 4 - RWA PID Integral Logic Enable Bit 5 - ANS Auto Switch Enable Bit 6 - Search Auto Switch Enable Bit 7 - Mapping Ephem Logic Enable	Bit 8 - Check New Ephem Loads Enable Bit 9 - Use MHSA Derived Attitude Enable Bit 10 - CSA Back-up Has Back-up Enable Bit 11 - SSA Mode Switch Enable Bit 12 - spare Bit 13 - spare Bit 14 - spare Bit 15 - spare		
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0006	BIAS_CNVG_X		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: BIASSSTATUS Scale Factor: ns		
X gyro bias status. Status of last 10 X bias convergence tests. The first 10 bits represent successful tests, bit 9 is the current status and bit 0 was 10 biases ago. With each new bias estimate, the status table is shifted left. When all three tables = 0xFFC0, STAREX sets the flag GYRO'BIAS'CONVERGED.			
Converged = 1111 1111 1100 0000 (Binary) = 0xFFC0			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0007	BIAS_CNVG_Y		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: BIASSSTATUS Scale Factor: ns		
Y gyro bias status. Status of last 10 Y bias convergence tests. The first 10 bits represent successful tests, bit 9 is the current status and bit 0 was 10 biases ago. With each new bias estimate, the status table is shifted left. When all three tables = 0xFFC0, STAREX sets the flag GYRO'BIAS'CONVERGED.			
Converged = 1111 1111 1100 0000 (Binary) = 0xFFC0			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0008	BIAS_CNVG_Z		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: BIASSTATUS Scale Factor: ns		
Z gyro bias status. Status of last 10 Z bias convergence tests. The first 10 bits represent successful tests, bit 9 is the current status and bit 0 was 10 biases ago. With each new bias estimate, the status table is shifted left. When all three tables = 0xFFC0, STAREX sets the flag GYRO'BIAS'CONVERGED.			
Converged = 1111 1111 1100 0000 (Binary) = 0xFFC0			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0009	ATT_STAT_NEW		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AACSS2GLOBALPRESET FSW Name: NEWAACSSSTATUS Scale Factor: ns		
New packed AACSS2 status booleans.			
Bit 0 - CSA Offset Enable Bit 1 - Nominal Mode Actuator Select Bit 2 - Contingency Mode Actuator Select Bit 3 - Thruster Leak Check Enable Bit 4 - Control Fault Enable Bit 5 - RWA Stiction Control Enable Bit 6 - spare Bit 7 - spare	Bit 8..9 - End Of Drag Status Bit 10..11 - Thruster Select Bit 12 - spare Bit 13 - spare Bit 14 - spare Bit 15 - spare		
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to determine AACSS status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0010	COVAR_11(0)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +33		
Covariance estimated by CADS Kalman filter. (roll error; roll error)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10	
F-0011	COVAR_11(1)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +33		
Covariance estimated by CADS Kalman filter. (roll error; pitch error)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10	

SCP TELEMETRY

F-0012	COVAR_11(2)	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +33	
Covariance estimated by CADS Kalman filter. (roll error; yaw error)		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Inability to troubleshoot STAREX.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10
F-0013	COVAR_11(3)	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +33	
Covariance estimated by CADS Kalman filter. (pitch error; roll error)		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Inability to troubleshoot STAREX.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10

SCP TELEMETRY

F-0014	COVAR_11(4)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +33		
Covariance estimated by CADS Kalman filter. (pitch error; pitch error)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10	
F-0015	COVAR_11(5)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +33		
Covariance estimated by CADS Kalman filter. (pitch error; yaw error)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10	

SCP TELEMETRY

F-0016	COVAR_11(6)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +33		
Covariance estimated by CADS Kalman filter. (yaw error; roll error)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10	
F-0017	COVAR_11(7)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +33		
Covariance estimated by CADS Kalman filter. (yaw error; pitch error)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10	

SCP TELEMETRY

F-0018	COVAR_11(8)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +33		
Covariance estimated by CADS Kalman filter. (yaw error; yaw error)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10 CCL Process: OFF CCL Param: 0	
F-0020	COVAR_12(0)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +46		
Covariance estimated by CADS Kalman filter. (roll error; roll bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.84217E-14	

SCP TELEMETRY

F-0021	COVAR_12(1)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +46		
Covariance estimated by CADS Kalman filter. (roll error; pitch bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.84217E-14	
F-0022	COVAR_12(2)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +46		
Covariance estimated by CADS Kalman filter. (roll error; yaw bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.84217E-14	

SCP TELEMETRY

F-0023	COVAR_12(3)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +46		
Covariance estimated by CADS Kalman filter. (pitch error; roll bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.84217E-14	
F-0024	COVAR_12(4)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +46		
Covariance estimated by CADS Kalman filter. (pitch error; pitch bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.84217E-14	

SCP TELEMETRY

F-0025	COVAR_12(5)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +46		
Covariance estimated by CADS Kalman filter. (pitch error; yaw bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.84217E-14	
F-0026	COVAR_12(6)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +46		
Covariance estimated by CADS Kalman filter. (yaw error; roll bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.84217E-14	

SCP TELEMETRY

F-0027	COVAR_12(7)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +46		
Covariance estimated by CADS Kalman filter. (yaw error; pitch bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.84217E-14	
F-0028	COVAR_12(8)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +46		
Covariance estimated by CADS Kalman filter. (yaw error; yaw bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.84217E-14	

SCP TELEMETRY

F-0030	COVAR_22(0)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +55		
Covariance estimated by CADS Kalman filter. (roll bias; roll bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r2/s2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.55112E-17	
F-0031	COVAR_22(1)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +55		
Covariance estimated by CADS Kalman filter. (roll bias; pitch bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r2/s2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.55112E-17	

SCP TELEMETRY

F-0032	COVAR_22(2)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +55		
Covariance estimated by CADS Kalman filter. (roll bias; yaw bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r2/s2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.55112E-17	
F-0033	COVAR_22(3)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +55		
Covariance estimated by CADS Kalman filter. (pitch bias; roll bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r2/s2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.55112E-17	

SCP TELEMETRY

F-0034	COVAR_22(4)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +55		
Covariance estimated by CADS Kalman filter. (pitch bias; pitch bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r2/s2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.55112E-17	
F-0035	COVAR_22(5)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +55		
Covariance estimated by CADS Kalman filter. (pitch bias; yaw bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r2/s2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.55112E-17	

SCP TELEMETRY

F-0036	COVAR_22(6)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +55		
Covariance estimated by CADS Kalman filter. (yaw bias; roll bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r2/s2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.55112E-17	
F-0037	COVAR_22(7)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +55		
Covariance estimated by CADS Kalman filter. (yaw bias; pitch bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r2/s2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.55112E-17	

SCP TELEMETRY

F-0038	COVAR_22(8)		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: COVAR Scale Factor: +55		
Covariance estimated by CADS Kalman filter. (yaw bias; yaw bias)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to troubleshoot STAREX.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r2/s2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.55112E-17	
F-0040	CSA_AS_1		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMCSCA(0) Scale Factor: ns		
1st 1/10th second reading of CSA/Accelerometer telemetry read from SIB 2483 word 8. It contains CSA word slit and time, or +S accelerometer counts depending on the selected gyro/accel format. The interpretation of CSA/accelerometer data telemetered is as follows:			
Gyro Format: CSA Word			
With no CSA connected to the IMU, or no transit in the last 100 milliseconds, the CSA data word is all zeros. A single transit from the CSA sets 5 of the 6 MSB bits, and clears the transit-slit bit (B0-Slit A2, B1-Slit A1, B2-Slit B3, B3-Slit B2, B4 - Slit B1, B5 - Slit A3). CSA count weight is 0.625 milliseconds.			
Accel Format: Skew			
0.332 mm/sec			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of info useful in troubleshooting IMU during integration and testing.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0041	CSA_AS_2		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMCSA(1) Scale Factor: ns		
2nd 1/10th second reading of CSA/Accelerometer telemetry read from SIB 2483 word 8. It contains CSA word slit and time, or +S accelerometer counts depending on the selected gyro/accel format. The interpretation of CSA/accelerometer data telemetered is as follows:			
Gyro Format: CSA Word			
With no CSA connected to the IMU, or no transit in the last 100 milliseconds, the CSA data word is all zeros. A single transit from the CSA sets 5 of the 6 MSB bits, and clears the transit-slit bit (B0-Slit A2, B1-Slit A1, B2-Slit B3, B3-Slit B2, B4 - Slit B1, B5 - Slit A3). CSA count weight is 0.625 milliseconds.			
Accel Format: Skew			
0.332 mm/sec			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of info useful in troubleshooting IMU during integration and testing. CSA loss will degrade attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0042	CSA_AS_3		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMCSA(2) Scale Factor: ns		
3rd 1/10th second reading of CSA/Accelerometer telemetry read from SIB 2483 word 8. It contains CSA word slit and time, or +S accelerometer counts depending on the selected gyro/accel format. The interpretation of CSA/accelerometer data telemetered is as follows:			
Gyro Format: CSA Word			
With no CSA connected to the IMU, or no transit in the last 100 milliseconds, the CSA data word is all zeros. A single transit from the CSA sets 5 of the 6 MSB bits, and clears the transit-slit bit (B0-Slit A2, B1-Slit A1, B2-Slit B3, B3-Slit B2, B4 - Slit B1, B5 - Slit A3). CSA count weight is 0.625 milliseconds.			
Accel Format: Skew			
0.332 mm/sec			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of info useful in troubleshooting IMU during integration and testing. CSA loss will degrade attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0043	CSA_AS_4		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEEXECPL FSW Name: TELEMCSA(3) Scale Factor: ns		
4th 1/10th second reading of CSA/Accelerometer telemetry read from SIB 2483 word 8. It contains CSA word slit and time, or +S accelerometer counts depending on the selected gyro/accel format. The interpretation of CSA/accelerometer data telemetered is as follows:			
Gyro Format: CSA Word			
With no CSA connected to the IMU, or no transit in the last 100 milliseconds, the CSA data word is all zeros. A single transit from the CSA sets 5 of the 6 MSB bits, and clears the transit-slit bit (B0-Slit A2, B1-Slit A1, B2-Slit B3, B3-Slit B2, B4 - Slit B1, B5 - Slit A3). CSA count weight is 0.625 milliseconds.			
Accel Format: Skew			
0.332 mm/sec			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of info useful in troubleshooting IMU during integration and testing. CSA loss will degrade attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0044	CSA_AS_5		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEEXECPL FSW Name: TELEMCSA(4) Scale Factor: ns		
5th 1/10th second reading of CSA/Accelerometer telemetry read from SIB 2483 word 8. It contains CSA word slit and time, or +S accelerometer counts depending on the selected gyro/accel format. The interpretation of CSA/accelerometer data telemetered is as follows:			
Gyro Format: CSA Word			
With no CSA connected to the IMU, or no transit in the last 100 milliseconds, the CSA data word is all zeros. A single transit from the CSA sets 5 of the 6 MSB bits, and clears the transit-slit bit (B0-Slit A2, B1-Slit A1, B2-Slit B3, B3-Slit B2, B4 - Slit B1, B5 - Slit A3). CSA count weight is 0.625 milliseconds.			
Accel Format: Skew			
0.332 mm/sec			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of info useful in troubleshooting IMU during integration and testing. Loss will degrade attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0045	CSA_AS_6		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEEXECPL FSW Name: TELEMCSA(5) Scale Factor: ns		
6th 1/10th second reading of CSA/Accelerometer telemetry read from SIB 2483 word 8. It contains CSA word slit and time, or +S accelerometer counts depending on the selected gyro/accel format. The interpretation of CSA/accelerometer data telemetered is as follows:			
Gyro Format: CSA Word			
With no CSA connected to the IMU, or no transit in the last 100 milliseconds, the CSA data word is all zeros. A single transit from the CSA sets 5 of the 6 MSB bits, and clears the transit-slit bit (B0-Slit A2, B1-Slit A1, B2-Slit B3, B3-Slit B2, B4 - Slit B1, B5 - Slit A3). CSA count weight is 0.625 milliseconds.			
Accel Format: Skew			
0.332 mm/sec			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of info useful in troubleshooting IMU during integration and testing. Loss will degrade attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0046	CSA_AS_7		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEEXECPL FSW Name: TELEMCSA(6) Scale Factor: ns		
7th 1/10th second reading of CSA/Accelerometer telemetry read from SIB 2483 word 8. It contains CSA word slit and time, or +S accelerometer counts depending on the selected gyro/accel format. The interpretation of CSA/accelerometer data telemetered is as follows:			
Gyro Format: CSA Word			
With no CSA connected to the IMU, or no transit in the last 100 milliseconds, the CSA data word is all zeros. A single transit from the CSA sets 5 of the 6 MSB bits, and clears the transit-slit bit (B0-Slit A2, B1-Slit A1, B2-Slit B3, B3-Slit B2, B4 - Slit B1, B5 - Slit A3). CSA count weight is 0.625 milliseconds.			
Accel Format: Skew			
0.332 mm/sec			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of info useful in troubleshooting IMU during integration and testing. Loss will degrade attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0047	CSA_AS_8		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEEXECPL FSW Name: TELEMCSA(7) Scale Factor: ns		
8th 1/10th second reading of CSA/Accelerometer telemetry read from SIB 2483 word 8. It contains CSA word slit and time, or +S accelerometer counts depending on the selected gyro/accel format. The interpretation of CSA/accelerometer data telemetered is as follows:			
Gyro Format: CSA Word			
With no CSA connected to the IMU, or no transit in the last 100 milliseconds, the CSA data word is all zeros. A single transit from the CSA sets 5 of the 6 MSB bits, and clears the transit-slit bit (B0-Slit A2, B1-Slit A1, B2-Slit B3, B3-Slit B2, B4 - Slit B1, B5 - Slit A3). CSA count weight is 0.625 milliseconds.			
Accel Format: Skew			
0.332 mm/sec			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of info useful in troubleshooting IMU during integration and testing. Loss will degrade attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0048	CSA_AS_9		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEEXECPL FSW Name: TELEMCSA(8) Scale Factor: ns		
9th 1/10th second reading of CSA/Accelerometer telemetry read from SIB 2483 word 8. It contains CSA word slit and time, or +S accelerometer counts depending on the selected gyro/accel format. The interpretation of CSA/accelerometer data telemetered is as follows:			
Gyro Format: CSA Word			
With no CSA connected to the IMU, or no transit in the last 100 milliseconds, the CSA data word is all zeros. A single transit from the CSA sets 5 of the 6 MSB bits, and clears the transit-slit bit (B0-Slit A2, B1-Slit A1, B2-Slit B3, B3-Slit B2, B4 - Slit B1, B5 - Slit A3). CSA count weight is 0.625 milliseconds.			
Accel Format: Skew			
0.332 mm/sec			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of info useful in troubleshooting IMU during integration and testing. Loss will degrade attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0049	CSA_AS_10		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMCSA(9) Scale Factor: ns					
10th 1/10th second reading of CSA/Accelerometer telemetry read from SIB 2483 word 8. It contains CSA word slit and time, or +S accelerometer counts depending on the selected gyro/accel format. The interpretation of CSA/accelerometer data telemetered is as follows: Gyro Format: CSA Word With no CSA connected to the IMU, or no transit in the last 100 milliseconds, the CSA data word is all zeros. A single transit from the CSA sets 5 of the 6 MSB bits, and clears the transit-slit bit (B0-Slit A2, B1-Slit A1, B2-Slit B3, B3-Slit B2, B4 - Slit B1, B5 - Slit A3). CSA count weight is 0.625 milliseconds. Accel Format: Skew 0.332 mm/sec						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of info useful in troubleshooting IMU during integration and testing. Loss will degrade attitude control.						
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td> <td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td> <td></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-0051	CSAwdnONZERO		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: CSAWRDNZ Scale Factor: ns					
CSA word corresponding to most recent star transit buffered for telemetry.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: F-0040 thru F-0049 Related Measurements: Derived Channels V-0001 (CSAslit_BITS), V-0002 (CSAslit_TIME) and V-0003 (CSAslit_XING)						
<table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td> <td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0</td> <td></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0					

SCP TELEMETRY

F-0055	CT_CNTRL_ST		AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AAC52GLOBALCPL FSW Name: CONTROLSTATECOUNT Scale Factor: ns		
High word of control state count. Number of consecutive 1/2 second cycles in current attitude control state.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0056	CT_MAP_LOST		AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AAC52GLOBALCPL FSW Name: MAPLOSTCOUNT Scale Factor: ns		
Number of consecutive 1/2 second cycles in Mapping state while MHSA views space. When a flight software specified threshold is exceeded, search mode will be entered.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements: F-0000 (AAC5_STATE)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0057	CT_SUN_BADCK		AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AACSS2GLOBALCPL FSW Name: BADSUNCHECKCOUNT Scale Factor: ns					
Number of consecutive 1/2 sec cycles where sun check was bad.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-0060	DELTAV_DUR		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRVARSCPL FSW Name: TOTALMANUVRDURATION Scale Factor: +5					
Total duration of maneuver (Includes ullage burn).						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Will impact AACSS/propulsion management. Used in PAS. Maneuvers will not be precise.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 6.25000E-02 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 6.25000E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 6.25000E-02				

SCP TELEMETRY

F-0061	DELTAV_X		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRVARSCPL FSW Name: TOTALDELTAV(0) Scale Factor: +6		
Total accumulated Delta Velocity along spacecraft X axis.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Used in PAS. Cannot verify deltaV. Will need deltaV calculations by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: m/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.12500E-02	
F-0062	DELTAV_Y		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRVARSCPL FSW Name: TOTALDELTAV(I) Scale Factor: +6		
Total accumulated Delta Velocity along spacecraft Y axis.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Used in PAS. Cannot verify deltaV. Will need deltaV calculations by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: m/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.12500E-02	

SCP TELEMETRY

F-0063	DELTAV_Z		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVR'VARSCPL FSW Name: TOTALDELTAV(2) Scale Factor: +6		
Total accumulated Delta Velocity along spacecraft Z axis.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Used in PAS. Cannot verify deltaV. Will need deltaV calculations by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: m/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.12500E-02	
F-0065	DOTPROD_MULT		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: DOTPRODMULT Scale Factor: +0		
Dot product tesdt multiplier for determination of window size.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of troubleshooting information for STAREX.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E+00	

SCP TELEMETRY

F-0070	EPH_ANG_INCL		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2EPHEMCPL FSW Name: EPHEMANGLE(1) Scale Factor: +14		
The mapping ephemeris orbit inclination. Angle is computed from uplinked mapping ephemeris parameters.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Mission Ops does not know PSW orbit ascending node derivation.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04	
F-0071	EPH_ANG_NODE		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2EPHEMCPL FSW Name: EPHEMANGLE(0) Scale Factor: +14		
The mapping ephemeris orbit ascending node. Angle is computed from uplinked mapping ephemeris parameters.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Mission Ops does not know PSW orbit ascending node derivation.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04	

SCP TELEMETRY

F-0072	EPH_ANG_ORBT		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2EPHEMCPL FSW Name: EPHEMANGLE(2) Scale Factor: +14		
The mapping ephemeris orbit angle. Angle is computed from uplinked mapping ephemeris parameters.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Mission Ops does not know PSW orbit ascending node derivation.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04	
F-0074	EPH_EARTH_BX		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2EPHEMCPL FSW Name: EPHEMEARTHBFRA(0) Scale Factor: +16		
The ephemeris X component of the Earth (Earth with offset during inner-cruise) body-frame vector, transformed from the ephemeris Earth inertial-frame. Used for ANS pointing and HGA pointing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.			
Alternate Telemetry: Inertial frame ephemeris combined with inertial-to-body quaternion F-0074 (EPH_EARTH_BX) F-0315-0318 (QUAT_F_12B_1-4)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	

SCP TELEMETRY

F-0075	EPH_EARTH_BY		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSC2EPHEMCPL FSW Name: EPHEMEARTHBFRAFME(1) Scale Factor: +16		
The ephemeris Y component of the Earth (Earth with offset during inner-cruise) body-frame vector, transformed from the ephemeris Earth inertial-frame. Used for ANS pointing and HGA pointing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.			
Alternate Telemetry: Inertial frame ephemeris combined with inertial-to-body quaternion F-0075 (EPH_EARTH_BY) F-0315-0318 (QUAT_F_12B_1-4)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0076	EPH_EARTH_BZ		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSC2EPHEMCPL FSW Name: EPHEMEARTHBFRAFME(2) Scale Factor: +16		
The ephemeris Z component of the Earth (Earth with offset during inner-cruise) body-frame vector, transformed from the ephemeris Earth inertial-frame. Used for ANS pointing and HGA pointing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.			
Alternate Telemetry: Inertial frame ephemeris combined with inertial-to-body quaternion F-0076 (EPH_EARTH_BZ) F-0315-0318 (QUAT_F_12B_1-4)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	

SCP TELEMETRY

F-0077	EPH_EARTH_IX		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2EPHEMCPL FSW Name: EPHEMEARTHITFRAME(0) Scale Factor: +16		
The X component of the inertial-frame Earth vector computed from the uplinked ephemeris coefficients.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.			
Alternate Telemetry: Body frame earth ephemeris F-0074 (EPH_EARTH_BX) combined with inertial-to-body quaternion F-0315-0318			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0078	EPH_EARTH_IY		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2EPHEMCPL FSW Name: EPHEMEARTHITFRAME(1) Scale Factor: +16		
The Y component of the inertial-frame Earth vector computed from the uplinked ephemeris coefficients.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.			
Alternate Telemetry: Body frame earth ephemeris F-0075 (EPH_EARTH_BY) combined with inertial-to-body quaternion F-0315-0318			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	

SCP TELEMETRY

F-0079	EPH_EARTH_IZ		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSC2EPHEMCPL FSW Name: EPHEMEARTHITFRAME(2) Scale Factor: +16		
The Z component of the inertial-frame Earth vector computed from the uplinked ephemeris coefficients.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.			
Alternate Telemetry: Body frame earth ephemeris F-0076 (EPH_EARTH_BZ) combined with inertial-to-body quaternion F-0315-0318			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0080	EPH_PITCH		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSC2EPHEMCPL FSW Name: EPHEMPITCHCORRECTION Scale Factor: +16		
Trigonometric part of orbit angle, used by MHSA Kalman Filter.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Mission Ops does not know pitch correction for MHSA Kalman Filter.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	

SCP TELEMETRY

F-0085	EPH_SUN_BX	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSC2EPHEMCPL FSW Name: EPHEMSUNBFRAME(0) Scale Factor: +16	
The ephemeris X component of the sun vector (body-frame) transformed from the ephemeris sun vector (inertial-frame) using the attitude quaternion (inertial-to-body) or the MHSA back-up attitude quaternion (inertial-to-body). Used by the Sun Monitor software.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.		
Alternate Telemetry: Ephern sun inertial frame F-0090 (EPH_SUN_IX) combined with inertial-to-body quaternion F-0315-0318 (QUAT_F_12B_1-4)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
F-0086	EPH_SUN_BY	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSC2EPHEMCPL FSW Name: EPHEMSUNBFRAME(1) Scale Factor: +16	
The ephemeris Y component of the sun vector (body-frame) transformed from the ephemeris sun vector (inertial-frame) using the attitude quaternion (inertial-to-body) or the MHSA back-up attitude quaternion (inertial-to-body). Used by the Sun Monitor software.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.		
Alternate Telemetry: Ephern sun inertial frame F-0091 (EPH_SUN_IY) combined with inertial-to-body quaternion F-0315-0318 (QUAT_F_12B_1-4)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0087	EPH_SUN_BZ	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSC2EPHEMCPL FSW Name: EPHEMSUNBFRAME(2) Scale Factor: +16	
The ephemeris Z component of the sun vector (body-frame) transformed from the ephemeris sun vector (inertial-frame) using the attitude quaternion (inertial-to-body) or the MHSAs back-up attitude quaternion (inertial-to-body). Used by the Sun Monitor software.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.		
Alternate Telemetry: Ephem sun inertial frame F-0092 (EPH_SUN_IZ) combined with inertial-to-body quaternion F-0315-0318 (QUAT_F_12B_1-4)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
F-0090	EPH_SUN_IX	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSC2EPHEMCPL FSW Name: EPHEMSUNIFRAME(0) Scale Factor: +16	
The X component of the inertial-frame sun vector computed from the uplinked ephemeris coefficients.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.		
Alternate Telemetry: Ephem sun inertial frame (EPHSUN_B) combined with inertial-to-body quaternion (FILBODYQ).		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0091	EPH_SUN_IY	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2EPHEMCPL FSW Name: EPHEMSUNIFRAME(1) Scale Factor: +16	
The Y component of the inertial-frame sun vector computed from the uplinked ephemeris coefficients.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.		
Alternate Telemetry: Ephem sun inertial frame (EPHSUN_B) combined with inertial-to-body quaternion (FILBODYQ).		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
F-0092	EPH_SUN_IZ	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2EPHEMCPL FSW Name: EPHEMSUNIFRAME(2) Scale Factor: +16	
The Z component of the inertial-frame sun vector computed from the uplinked ephemeris coefficients.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.		
Alternate Telemetry: Ephem sun inertial frame (EPHSUN_B) combined with inertial-to-body quaternion (FILBODYQ).		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0094	EQ_CROSS		AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AAC52EPHEMCPL FSW Name: EQCRTIMETONODE Scale Factor: ns		
Derived time to equator crossing. Valid only in Primary Mode (Inertial reference established, Map control state).			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Info used in PAS and PDS data processing. PDS data synchronization will be impacted.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0100	FILT_SUN_X		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52GLOBALCPL FSW Name: FILTSUN(0) Scale Factor: +16		
X component of the filtered, gyro-propagated unit sun vector (body-frame), buffered from AAC510, used for attitude control and solar array pointing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Will not know parameters used for AAC5 processing. Degraded attitude control.			
Alternate Telemetry: F-0470 (SUNVEC_RAW_X)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	

SCP TELEMETRY

F-0101	FILT_SUN_Y		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52GLOBALCPL FSW Name: FILTSUN(1) Scale Factor: +16		
Y component of the filtered, gyro-propagated unit sun vector (body-frame), buffered from AAC510, used for attitude control and solar array pointing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Will not know parameters used for AAC5 processing. Degraded attitude control.			
Alternate Telemetry: F-0471 (SUNVEC_RAW_Y)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0102	FILT_SUN_Z		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52GLOBALCPL FSW Name: FILTSUN(2) Scale Factor: +16		
Z component of the filtered, gyro-propagated unit sun vector (body-frame), buffered from AAC510, used for attitude control and solar array pointing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Will not know parameters used for AAC5 processing. Degraded attitude control.			
Alternate Telemetry: F-0472 (SUNVEC_RAW_Z)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	

SCP TELEMETRY

F-0105	GYR_BI_EST_X		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: GYROBIASEST(0) Scale Factor: +33					
X gyro rate bias estimate computed by STAREX. Subtracted from body rates.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10				
F-0106	GYR_BI_EST_Y		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: GYROBIASEST(1) Scale Factor: +33					
Y gyro rate bias estimate computed by STAREX. Subtracted from body rates.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10				

SCP TELEMETRY

F-0107	GYR_BI_EST_Z		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: GYROBIASEST(2) Scale Factor: +33		
Z gyro rate bias estimate computed by STAREX. Subtracted from body rates.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10	
F-0110	GY_X1_X3_1		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX1(0) Scale Factor: ns		
1st 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 3. It contains gyro counts from either gyro -X1 or -X3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: -X1 Accel Format:-X1/-X3 (selection is indicated by bit 11 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: Body rate on X axis.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0111	GY_X1_X3_2		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX1(1) Scale Factor: ns		
2nd 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 3. It contains gyro counts from either gyro -X1 or -X3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: -X1 Accel Format:-X1/-X3 (selection is indicated by bit 11 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0112	GY_X1_X3_3		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX1(2) Scale Factor: ns		
3rd 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 3. It contains gyro counts from either gyro -X1 or -X3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: -X1 Accel Format:-X1/-X3 (selection is indicated by bit 11 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0113	GY_X1_X3_4		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX1(3) Scale Factor: ns					
4th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 3. It contains gyro counts from either gyro -X1 or -X3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows:						
Gyro Format: -X1 Accel Format:-X1/-X3 (selection is indicated by bit 11 of IMU_STAT word)						
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-0114	GY_X1_X3_5		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX1(4) Scale Factor: ns					
5th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 3. It contains gyro counts from either gyro -X1 or -X3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows:						
Gyro Format: -X1 Accel Format:-X1/-X3 (selection is indicated by bit 11 of IMU_STAT word)						
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-0115	GY_X1_X3_6		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX1(5) Scale Factor: ns					
6th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 3. It contains gyro counts from either gyro -X1 or -X3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows:						
Gyro Format: -X1 Accel Format:-X1/-X3 (selection is indicated by bit 11 of IMU_STAT word)						
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-0116	GY_X1_X3_7		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX1(6) Scale Factor: ns					
7th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 3. It contains gyro counts from either gyro -X1 or -X3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows:						
Gyro Format: -X1 Accel Format:-X1/-X3 (selection is indicated by bit 11 of IMU_STAT word)						
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-0117	GY_X1_X3_8		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX1(7) Scale Factor: ns					
8th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 3. It contains gyro counts from either gyro -X1 or -X3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows:						
Gyro Format: -X1 Accel Format:-X1/-X3 (selection is indicated by bit 11 of IMU_STAT word)						
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-0118	GY_X1_X3_9		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX1(8) Scale Factor: ns					
9th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 3. It contains gyro counts from either gyro -X1 or -X3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows:						
Gyro Format: -X1 Accel Format:-X1/-X3 (selection is indicated by bit 11 of IMU_STAT word)						
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-0119	GY_X1_X3_10		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX1(9) Scale Factor: ns		
10th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 3. It contains gyro counts from either gyro -X1 or -X3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: -X1 Accel Format:-X1/-X3 (selection is indicated by bit 11 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0120	GY_X3_AX_1		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX3(0) Scale Factor: ns		
1st 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 6. It contains either gyro counts from gyro -X3 or accelerometer data -X depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows: Gyro Format: -X3 Accel Format:-X Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: Body rate on X-Axis.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0121	GY_X3_AX_2		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX3(1) Scale Factor: ns		
2nd 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 6. It contains either gyro counts from gyro -X3 or accelerometer data -X depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:			
Gyro Format: -X3 Accel Format:-X <p>Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.</p>			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0122	GY_X3_AX_3		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX3(2) Scale Factor: ns		
3rd 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 6. It contains either gyro counts from gyro -X3 or accelerometer data -X depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:			
Gyro Format: -X3 Accel Format:-X <p>Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.</p>			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0123	GY_X3_AX_4		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX3(3) Scale Factor: ns		
4th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 6. It contains either gyro counts from gyro -X3 or accelerometer data -X depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows: Gyro Format: -X3 Accel Format:-X Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0124	GY_X3_AX_5		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX3(4) Scale Factor: ns		
5th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 6. It contains either gyro counts from gyro -X3 or accelerometer data -X depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows: Gyro Format: -X3 Accel Format:-X Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0125	GY_X3_AX_6		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX3(5) Scale Factor: ns		
6th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 6. It contains either gyro counts from gyro -X3 or accelerometer data -X depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:			
Gyro Format: -X3 Accel Format:-X			
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0126	GY_X3_AX_7		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX3(6) Scale Factor: ns		
7th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 6. It contains either gyro counts from gyro -X3 or accelerometer data -X depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:			
Gyro Format: -X3 Accel Format:-X			
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0127	GY_X3_AX_8		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX3(7) Scale Factor: ns		
8th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 6. It contains either gyro counts from gyro -X3 or accelerometer data -X depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:			
Gyro Format: -X3 Accel Format:-X			
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0128	GY_X3_AX_9		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROX3(8) Scale Factor: ns		
9th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 6. It contains either gyro counts from gyro -X3 or accelerometer data -X depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:			
Gyro Format: -X3 Accel Format:-X			
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0129	GY_X3_AX_10		AACS				
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEEXECPL FSW Name: TELEMGYROX3(9) Scale Factor: ns						
10th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 6. It contains either gyro counts from gyro -X3 or accelerometer data -X depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:							
Gyro Format: -X3 Accel Format:-X <p>Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.</p>							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.							
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0						
F-0130	GY_Y1_Y2_1		AACS				
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEEXECPL FSW Name: TELEMGROY1(0) Scale Factor: ns						
1st 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 4. It contains gyro counts from either gyro +Y1 or +Y2 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows:							
Gyro Format: +Y1 Accel Format:+Y1/+Y2 (selection is indicated by bit 10 of IMU_STAT word) <p>Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.</p>							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.							
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0						

SCP TELEMETRY

F-0131	GY_Y1_Y2_2		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY1(1) Scale Factor: ns		
2nd 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 4. It contains gyro counts from either gyro +Y1 or +Y2 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: +Y1 Accel Format:+Y1/+Y2 (selection is indicated by bit 10 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0132	GY_Y1_Y2_3		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY1(2) Scale Factor: ns		
3rd 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 4. It contains gyro counts from either gyro +Y1 or +Y2 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: +Y1 Accel Format:+Y1/+Y2 (selection is indicated by bit 10 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0133	GY_Y1_Y2_4		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY1(3) Scale Factor: ns		
4th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 4. It contains gyro counts from either gyro +Y1 or +Y2 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: +Y1 Accel Format:+Y1/+Y2 (selection is indicated by bit 10 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0134	GY_Y1_Y2_5		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY1(4) Scale Factor: ns		
5th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 4. It contains gyro counts from either gyro +Y1 or +Y2 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: +Y1 Accel Format:+Y1/+Y2 (selection is indicated by bit 10 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0135	GY_Y1_Y2_6		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY1(5) Scale Factor: ns		
6th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 4. It contains gyro counts from either gyro +Y1 or +Y2 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: +Y1 Accel Format:+Y1/+Y2 (selection is indicated by bit 10 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0136	GY_Y1_Y2_7		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY1(6) Scale Factor: ns		
7th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 4. It contains gyro counts from either gyro +Y1 or +Y2 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: +Y1 Accel Format:+Y1/+Y2 (selection is indicated by bit 10 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0137	GY_Y1_Y2_8		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY1(7) Scale Factor: ns		
8th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 4. It contains gyro counts from either gyro +Y1 or +Y2 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: +Y1 Accel Format:+Y1/+Y2 (selection is indicated by bit 10 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0138	GY_Y1_Y2_9		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY1(8) Scale Factor: ns		
9th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 4. It contains gyro counts from either gyro +Y1 or +Y2 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: +Y1 Accel Format:+Y1/+Y2 (selection is indicated by bit 10 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0139	GY_Y1_Y2_10		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY1(9) Scale Factor: ns		
10th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 4. It contains gyro counts from either gyro +Y1 or +Y2 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: +Y1 Accel Format:+Y1/+Y2 (selection is indicated by bit 10 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0140	GY_Y2_AY_1		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY2(0) Scale Factor: ns		
1st 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 7. It contains either gyro counts from gyro +Y2 or accelerometer data -Y depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows: Gyro Format: +Y2 Accel Format:-Y Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0141	GY_Y2_AY_2		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY2(1) Scale Factor: ns		
2nd 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 7. It contains either gyro counts from gyro +Y2 or accelerometer data -Y depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:			
Gyro Format: +Y2 Accel Format:-Y <p>Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.</p>			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0142	GY_Y2_AY_3		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY2(2) Scale Factor: ns		
3rd 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 7. It contains either gyro counts from gyro +Y2 or accelerometer data -Y depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:			
Gyro Format: +Y2 Accel Format:-Y <p>Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.</p>			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0143	GY_Y2_AY_4		AACS				
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY2(3) Scale Factor: ns						
4th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 7. It contains either gyro counts from gyro +Y2 or accelerometer data -Y depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:							
Gyro Format: +Y2 Accel Format:-Y <p>Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.</p>							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.							
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0						
F-0144	GY_Y2_AY_5		AACS				
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY2(4) Scale Factor: ns						
5th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 7. It contains either gyro counts from gyro +Y2 or accelerometer data -Y depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:							
Gyro Format: +Y2 Accel Format:-Y <p>Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.</p>							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: Shortage of IMU troubleshooting info. Gyro failure will impact gyro redundancy.							
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0						

SCP TELEMETRY

F-0145	GY_Y2_AY_6		AACS				
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY2(5) Scale Factor: ns						
6th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 7. It contains either gyro counts from gyro +Y2 or accelerometer data -Y depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:							
Gyro Format: +Y2 Accel Format:-Y <p>Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.</p>							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.							
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0						
F-0146	GY_Y2_AY_7		AACS				
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY2(6) Scale Factor: ns						
7th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 7. It contains either gyro counts from gyro +Y2 or accelerometer data -Y depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:							
Gyro Format: +Y2 Accel Format:-Y <p>Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.</p>							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.							
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0						

SCP TELEMETRY

F-0147	GY_Y2_AY_8		AACS				
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY2(7) Scale Factor: ns						
8th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 7. It contains either gyro counts from gyro +Y2 or accelerometer data -Y depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:							
Gyro Format: +Y2 Accel Format:-Y <p>Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.</p>							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.							
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0						
F-0148	GY_Y2_AY_9		AACS				
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY2(8) Scale Factor: ns						
9th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 7. It contains either gyro counts from gyro +Y2 or accelerometer data -Y depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:							
Gyro Format: +Y2 Accel Format:-Y <p>Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.</p>							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.							
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0						

SCP TELEMETRY

F-0149	GY_Y2_AY_10		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROY2(9) Scale Factor: ns					
10th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 7. It contains either gyro counts from gyro +Y2 or accelerometer data -Y depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:						
Gyro Format: +Y2 Accel Format:-Y <p>Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.</p>						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.						
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td> <td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td> <td></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-0150	GY_Z2_Z3_1		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ2(0) Scale Factor: ns					
1st 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 2. It contains gyro counts from either gyro -Z2 or -Z3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows:						
Gyro Format: -Z2 Accel Format:-Z2/-Z3 (selection is indicated by bit 9 of IMU_STAT word) <p>Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.</p>						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.						
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td> <td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td> <td></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-0151	GY_Z2_Z3_2		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ2(1) Scale Factor: ns		
2nd 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 2. It contains gyro counts from either gyro -Z2 or -Z3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: -Z2 Accel Format:-Z2/-Z3 (selection is indicated by bit 9 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0152	GY_Z2_Z3_3		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ2(2) Scale Factor: ns		
3rd 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 2. It contains gyro counts from either gyro -Z2 or -Z3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: -Z2 Accel Format:-Z2/-Z3 (selection is indicated by bit 9 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0153	GY_Z2_Z3_4		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ2(3) Scale Factor: ns					
4th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 2. It contains gyro counts from either gyro -Z2 or -Z3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows:						
Gyro Format: -Z2 Accel Format:-Z2/-Z3 (selection is indicated by bit 9 of IMU_STAT word)						
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-0154	GY_Z2_Z3_5		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ2(4) Scale Factor: ns					
5th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 2. It contains gyro counts from either gyro -Z2 or -Z3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows:						
Gyro Format: -Z2 Accel Format:-Z2/-Z3 (selection is indicated by bit 9 of IMU_STAT word)						
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-0155	GY_Z2_Z3_6		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ2(5) Scale Factor: ns		
6th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 2. It contains gyro counts from either gyro -Z2 or -Z3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: -Z2 Accel Format:-Z2/-Z3 (selection is indicated by bit 9 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0156	GY_Z2_Z3_7		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ2(6) Scale Factor: ns		
7th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 2. It contains gyro counts from either gyro -Z2 or -Z3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: -Z2 Accel Format:-Z2/-Z3 (selection is indicated by bit 9 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0157	GY_Z2_Z3_8		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ2(7) Scale Factor: ns		
8th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 2. It contains gyro counts from either gyro -Z2 or -Z3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: -Z2 Accel Format:-Z2/-Z3 (selection is indicated by bit 9 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0158	GY_Z2_Z3_9		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ2(8) Scale Factor: ns		
9th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 2. It contains gyro counts from either gyro -Z2 or -Z3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: -Z2 Accel Format:-Z2/-Z3 (selection is indicated by bit 9 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0159	GY_Z2_Z3_10		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ2(9) Scale Factor: ns		
10th 1/10th second reading of IMU gyro telemetry read from SIB 2483 word 2. It contains gyro counts from either gyro -Z2 or -Z3 depending on the selected gyro/accel format and gyro configuration. The interpretation of which gyro data is telemetered is as follows: Gyro Format: -Z2 Accel Format:-Z2/-Z3 (selection is indicated by bit 9 of IMU_STAT word) Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0160	GY_Z3_AZ_1		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ3(0) Scale Factor: ns		
1st 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 5. It contains either gyro counts from gyro -Z3 or accelerometer data +Z depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows: Gyro Format: +-Z3 Accel Format:+Z Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0161	GY_Z3_AZ_2		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ3(1) Scale Factor: ns		
2nd 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 5. It contains either gyro counts from gyro -Z3 or accelerometer data +Z depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:			
Gyro Format: +-Z3 Accel Format:+Z			
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0162	GY_Z3_AZ_3		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ3(2) Scale Factor: ns		
3rd 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 5. It contains either gyro counts from gyro -Z3 or accelerometer data +Z depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:			
Gyro Format: +-Z3 Accel Format:+Z			
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0163	GY_Z3_AZ_4		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ3(3) Scale Factor: ns		
4th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 5. It contains either gyro counts from gyro -Z3 or accelerometer data +Z depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:			
Gyro Format: +-Z3 Accel Format:+Z			
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0164	GY_Z3_AZ_5		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ3(4) Scale Factor: ns		
5th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 5. It contains either gyro counts from gyro -Z3 or accelerometer data +Z depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows:			
Gyro Format: +-Z3 Accel Format:+Z			
Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0165	GY_Z3_AZ_6		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ3(5) Scale Factor: ns		
6th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 5. It contains either gyro counts from gyro -Z3 or accelerometer data +Z depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows: Gyro Format: +-Z3 Accel Format:+Z Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0166	GY_Z3_AZ_7		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ3(6) Scale Factor: ns		
7th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 5. It contains either gyro counts from gyro -Z3 or accelerometer data +Z depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows: Gyro Format: +-Z3 Accel Format:+Z Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0167	GY_Z3_AZ_8		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ3(7) Scale Factor: ns		
8th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 5. It contains either gyro counts from gyro -Z3 or accelerometer data +Z depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows: Gyro Format: +-Z3 Accel Format:+Z Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0168	GY_Z3_AZ_9		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ3(8) Scale Factor: ns		
9th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 5. It contains either gyro counts from gyro -Z3 or accelerometer data +Z depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows: Gyro Format: +-Z3 Accel Format:+Z Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0169	GY_Z3_AZ_10		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMGYROZ3(9) Scale Factor: ns		
10th 1/10th second reading of IMU gyro/accelerometer telemetry read from SIB 2483 word 5. It contains either gyro counts from gyro -Z3 or accelerometer data +Z depending on the selected gyro/accel format. The interpretation of gyro/accelerometer data telemetered is as follows: Gyro Format: +-Z3 Accel Format:+Z Hi rate = 0.915 arc sec/decisecond per bit. Lo rate = 0.061 arc sec/decisecond per bit. Accel rate = 0.332 mm/second per bit.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Gyro failure will impact gyro redundancy.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0170	GYbiasCOR_X		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: BGYROBIASCORR(0) Scale Factor: +33		
X axis correction to AACST0 gyro rate bias estimate resulting from identification of CSA transit with catalogued star. Gyro bias correction added to real time IMU rate bias estimate.			
Loss of Function: Entry into Safe Mode			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify info used in AACST processing. Attitude control will be degraded.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10	

SCP TELEMETRY

F-0171	GYbiasCOR_Y		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: BGYROBIASCORR(1) Scale Factor: +33		
Y axis correction to AACS10 gyro rate bias estimate resulting from identification of CSA transit with cataloged star. Gyro bias correction added to real time IMU rate bias estimate.			
Loss of Function: Entry into Safe Mode			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10	
F-0172	GYbiasCOR_Z		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: BGYROBIASCORR(2) Scale Factor: +33		
Z axis correction to AACS10 gyro rate bias estimate resulting from identification of CSA transit with cataloged star. Gyro bias correction added to real time IMU rate bias estimate.			
Loss of Function: Entry into Safe Mode			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10	

SCP TELEMETRY

F-0180	GYbiasEST_XA		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: STSTBIASES(0) Scale Factor: +33					
XA steady state gyro bias. Converged value of gyro bias estimates. Loaded into realtime AACST0 gyro bias estimates if inertial reference is lost or control mode diverges.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10				
F-0181	GYbiasEST_XB		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: STSTBIASES(3) Scale Factor: +33					
XB steady state gyro bias. Converged value of gyro bias estimates. Loaded into realtime AACST0 gyro bias estimates if inertial reference is lost or control mode diverges.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10				

SCP TELEMETRY

F-0182	GYbiasEST_YA		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: STSTBIASES(1) Scale Factor: +33		
YA steady state gyro bias. Converged value of gyro bias estimates. Loaded into realtime AACST0 gyro bias estimates if inertial reference is lost or control mode diverges.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10	
F-0183	GYbiasEST_YB		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: STSTBIASES(4) Scale Factor: +33		
YB steady state gyro bias. Converged value of gyro bias estimates. Loaded into realtime AACST0 gyro bias estimates if inertial reference is lost or control mode diverges.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10	

SCP TELEMETRY

F-0184	GYbiasEST_ZA		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: STSTBIASES(2) Scale Factor: +33		
ZA steady state gyro bias. Converged value of gyro bias estimates. Loaded into realtime AACST10 gyro bias estimates if inertial reference is lost or control mode diverges.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10	
F-0185	GYbiasEST_ZB		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: STSTBIASES(5) Scale Factor: +33		
ZB steady state gyro bias. Converged value of gyro bias estimates. Loaded into realtime AACST10 gyro bias estimates if inertial reference is lost or control mode diverges.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.32831E-10	

SCP TELEMETRY

F-0190	HGA_AZ_ANG		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: HGAAZIANGLE Scale Factor: +13		
HGA azimuth angle in the control frame. Note that angle range has already been applied.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less knowledge by SCP of HGA Azimuth Angle.			
Alternate Telemetry: None			
Related Measurements: Derived Channel V-0080 (HGA_AZang_CF)			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04	
F-0191	HGA_AZ_CMD		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: HGAAZICMD Scale Factor: ns		
HGA azimuth command.			
Bit 0 - Axis (0 = Elevation, 1 = Azimuth) Bit 1 - Direction (0 = Reverse, 1 = Forward) Bit 2 - Mode (0 = Rate Mode, 1 = Step Mode) Bit 3 - Motion (0 = Go, 1 = Stop) Bits 4:15 - (Rate Code or Number of Steps)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0192	HGA_AZ_POS	AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AAC52GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns	
HGA azimuth position in encoder frame. Third word read from HGA every 1/2 second.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: N/A		
Alternate Telemetry: None Related Measurements: Derived Channel V-0070 (HGA_AZ_pos_CF)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: ON CCL Param: 0	
F-0193	HGA_AZ_TRG	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: HGAAZITARGET Scale Factor: +13	
HGA target azimuth angle in the control frame. Note that angle range has already been applied.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less knowledge by SCP of HGA Azimuth Target Angle.		
Alternate Telemetry: F-0190 (HGA_AZ_ANG) Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04

SCP TELEMETRY

F-0194	HGA_CNTRL_ST		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: HGACONTROLSTATUS Scale Factor: ns					
HGA control status word.						
Bit 0 - hga'down Bit 1 - hga'azi'ool Bit 2 - hga'ele'ool Bit 3 - hga'step'cmd'ool Bit 4 - hga'rate'cmd'ool Bit 5 - hga'gde'stuck Bit 6 - hga'ok'flag Bit 7 - hga'switch'over Bit 8 - hga'step'cmd Bit 9 - hga'rate'cmd Bit 10 - hga'gde'sob'out Bit 11 - hga'rewind Bits 12:13 - hga'control'mode (off,auto,step,rate) Bits 14:16 - hga'control'state (nom,req'stop,stopped,wait)						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-0195	HGA_EL_ANG		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: HGAELEANGLE Scale Factor: +13					
HGA elevation angle in the control frame. Note that angle range has already been applied.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Less knowledge by CP of HGA Elevation Angle.						
Alternate Telemetry: None Related Measurements: Derived Channel V-0081 (HGA_ELang_CF) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: r CCL Process: ON CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04 </td></tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04				

SCP TELEMETRY

F-0196	HGA_EL_CMD		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: HGAELECMD Scale Factor: ns					
HGA elevation command.						
Bit 0 - Axis (0 = Elevation, 1 = Azimuth) Bit 1 - Direction (0 = Reverse, 1 = Forward) Bit 2 - Mode (0 = Rate Mode, 1 = Step Mode) Bit 3 - Motion (0 = Go, 1 = Stop) Bits 4:15 - (Rate Code or Number of Steps)						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-0197	HGA_EL_POS		AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns					
HGA elevation position in encoder frame. Second word read from HGA every 1/2 second.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: Derived Channel V-0071 (HGA_ELpos_CF)						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: ON CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: ON CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: ON CCL Param: 0					

SCP TELEMETRY

F-0198	HGA_EL_TRG		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: HGAELETARGET Scale Factor: +13		
HGA target elevation angle in the control frame. Note that angle range has already been applied.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less knowledge of SCP Target elevation angle.			
Alternate Telemetry: F-0195 (HGA_EL_ANG)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04	
F-0200	HGA_STATS		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AACCS2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns		
HGA status word. First word read from HGA every 1/2 second.			
Bit 0 - Side Status Bit 1 - El Moving Status Bit 2 - El Direction Status Bits 3..4 El Mode Bit 5 - El FWD Limit Status Bit 6 - El REV Limit Status Bit 7 - spare	Bit 8 - spare Bit 9 - Az Moving Status Bit 10 - Az Direction Status Bits 11..12 - Az Mode Bit 13 - Az FWD Limit Status Bit 14 - Az REV Limit Status Bit 15 - spare (always 1)		
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements: Derived Channels V-2070 (HGA_GDE_EP), V-2071 (HGA_MTR_EP), V-2072 (HGA_ENC_EP)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0		

SCP TELEMETRY

F-0201	HGA_TIMEOUT	AACS
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: CYCEXECPL FSW Name: HGASIBTIMEOUT Scale Factor: ns	
Read Error received from CIU when FSW read HGA position input port. 0 = no timeout 1 = timeout Not updated in backup SCP.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: N/A		
Alternate Telemetry: Any changes in HGA position.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_T/OUT 1 = TIME_OUT
F-0205	IMU_CHK_FROZ	AACS
Data Type: STATUS # Bits: 1 Start Bit: 0	Compool: AACSI0PRESET FSW Name: IMUFROZENCHKENABLED Scale Factor: ns	
IMU frozen check enable status. 0 - Disable 1 - Enable		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: None		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLE 1 = ENABLE

SCP TELEMETRY

F-0206	IMU_CHK_STAT		AACS
Data Type: STATUS # Bits: 1 Start Bit: 0	Compool: AACSI0PRESET FSW Name: IMUSTATUSCHKENABLED Scale Factor: ns		
IMU status check enable status.			
0 - Disable 1 - Enable			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLE 1 = ENABLE	
F-0210	IMU_ST_WD1		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEIMUSTATUS Scale Factor: ns		
1st 1/10 second reading of IMU status word read from SIB 2483 word 1. (Note, for data display, this channel is also used to report the safe mode IMU'STATUSWORD from AACSI0'CPL). The interpretation of each bit is as follows:			
Bit 0 - DC Supply Status Bit 1 - AC Supply Status Bit 2 - CSA Fan B Power Status Bit 3 - CSA Fan A Power Status Bit 4 - CSA Test Status Bit 5 - Rate Status Bit 6 - spare Bit 7 - spare	Bit 8 - Gyro/Accel Format Status Bit 9 - +GY1/+GY2 Select Status Bit 10 - -GX1/-GX3 Select Status Bit 11 - -GZ2/-GZ3 Select Status Bit 12 - Logic Side Status Bit 13 - Gyro 3 Power Status Bit 14 - Gyro 2 Power Status Bit 15 - Gyro 1 Power Status		
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0211	IMU_ST_WD2		AACS																
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(1) Scale Factor: ns																		
2nd 1/10 second reading of IMU status word read from SIB 2483 word 1. The interpretation of each bit is as follows:																			
<table> <tbody> <tr><td>Bit 0 - DC Supply Status</td><td>Bit 8 - Gyro/Accel Format Status</td></tr> <tr><td>Bit 1 - AC Supply Status</td><td>Bit 9 - +GY1/+GY2 Select Status</td></tr> <tr><td>Bit 2 - CSA Fan B Power Status</td><td>Bit 10 - -GX1/-GX3 Select Status</td></tr> <tr><td>Bit 3 - CSA Fan A Power Status</td><td>Bit 11 - -GZ2/-GZ3 Select Status</td></tr> <tr><td>Bit 4 - CSA Test Status</td><td>Bit 12 - Logic Side Status</td></tr> <tr><td>Bit 5 - Rate Status</td><td>Bit 13 - Gyro 3 Power Status</td></tr> <tr><td>Bit 6 - spare</td><td>Bit 14 - Gyro 2 Power Status</td></tr> <tr><td>Bit 7 - spare</td><td>Bit 15 - Gyro 1 Power Status</td></tr> </tbody> </table>				Bit 0 - DC Supply Status	Bit 8 - Gyro/Accel Format Status	Bit 1 - AC Supply Status	Bit 9 - +GY1/+GY2 Select Status	Bit 2 - CSA Fan B Power Status	Bit 10 - -GX1/-GX3 Select Status	Bit 3 - CSA Fan A Power Status	Bit 11 - -GZ2/-GZ3 Select Status	Bit 4 - CSA Test Status	Bit 12 - Logic Side Status	Bit 5 - Rate Status	Bit 13 - Gyro 3 Power Status	Bit 6 - spare	Bit 14 - Gyro 2 Power Status	Bit 7 - spare	Bit 15 - Gyro 1 Power Status
Bit 0 - DC Supply Status	Bit 8 - Gyro/Accel Format Status																		
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Recommended Action:																			
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Time Type: ERT	Conversion Type: N/A																		
Test Type: DN																			
Red Alarm Type: OFF																			
Red Alarm Mask1:	Valid Bit Mask: 0xFFFF																		
Red Alarm Mask2:	Event Status Mask: 0xFFFF																		
In Hysteresis: 0	CCL Process: OFF																		
Out Hysteresis: 0	CCL Param: 0																		
F-0212	IMU_ST_WD3		AACS																
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(2) Scale Factor: ns																		
3rd 1/10 second reading of IMU status word read from SIB 2483 word 1. The interpretation of each bit is as follows:																			
<table> <tbody> <tr><td>Bit 0 - DC Supply Status</td><td>Bit 8 - Gyro/Accel Format Status</td></tr> <tr><td>Bit 1 - AC Supply Status</td><td>Bit 9 - +GY1/+GY2 Select Status</td></tr> <tr><td>Bit 2 - CSA Fan B Power Status</td><td>Bit 10 - -GX1/-GX3 Select Status</td></tr> <tr><td>Bit 3 - CSA Fan A Power Status</td><td>Bit 11 - -GZ2/-GZ3 Select Status</td></tr> <tr><td>Bit 4 - CSA Test Status</td><td>Bit 12 - Logic Side Status</td></tr> <tr><td>Bit 5 - Rate Status</td><td>Bit 13 - Gyro 3 Power Status</td></tr> <tr><td>Bit 6 - spare</td><td>Bit 14 - Gyro 2 Power Status</td></tr> <tr><td>Bit 7 - spare</td><td>Bit 15 - Gyro 1 Power Status</td></tr> </tbody> </table>				Bit 0 - DC Supply Status	Bit 8 - Gyro/Accel Format Status	Bit 1 - AC Supply Status	Bit 9 - +GY1/+GY2 Select Status	Bit 2 - CSA Fan B Power Status	Bit 10 - -GX1/-GX3 Select Status	Bit 3 - CSA Fan A Power Status	Bit 11 - -GZ2/-GZ3 Select Status	Bit 4 - CSA Test Status	Bit 12 - Logic Side Status	Bit 5 - Rate Status	Bit 13 - Gyro 3 Power Status	Bit 6 - spare	Bit 14 - Gyro 2 Power Status	Bit 7 - spare	Bit 15 - Gyro 1 Power Status
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Loss of Function: N/A																			
Recommended Action:																			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.																			
Alternate Telemetry: None Related Measurements: <table> <tbody> <tr><td>Time Type: ERT</td><td>Conversion Type: N/A</td></tr> <tr><td>Test Type: DN</td><td></td></tr> <tr><td>Red Alarm Type: OFF</td><td></td></tr> <tr><td>Red Alarm Mask1:</td><td>Valid Bit Mask: 0xFFFF</td></tr> <tr><td>Red Alarm Mask2:</td><td>Event Status Mask: 0xFFFF</td></tr> <tr><td>In Hysteresis: 0</td><td>CCL Process: OFF</td></tr> <tr><td>Out Hysteresis: 0</td><td>CCL Param: 0</td></tr> </tbody> </table>				Time Type: ERT	Conversion Type: N/A	Test Type: DN		Red Alarm Type: OFF		Red Alarm Mask1:	Valid Bit Mask: 0xFFFF	Red Alarm Mask2:	Event Status Mask: 0xFFFF	In Hysteresis: 0	CCL Process: OFF	Out Hysteresis: 0	CCL Param: 0		
Time Type: ERT	Conversion Type: N/A																		
Test Type: DN																			
Red Alarm Type: OFF																			
Red Alarm Mask1:	Valid Bit Mask: 0xFFFF																		
Red Alarm Mask2:	Event Status Mask: 0xFFFF																		
In Hysteresis: 0	CCL Process: OFF																		
Out Hysteresis: 0	CCL Param: 0																		

SCP TELEMETRY

F-0213	IMU_ST_WD4		AACS																
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(3) Scale Factor: ns																		
4th 1/10 second reading of IMU status word read from SIB 2483 word 1. The interpretation of each bit is as follows:																			
<table> <tbody> <tr><td>Bit 0 - DC Supply Status</td><td>Bit 8 - Gyro/Accel Format Status</td></tr> <tr><td>Bit 1 - AC Supply Status</td><td>Bit 9 - +GY1/+GY2 Select Status</td></tr> <tr><td>Bit 2 - CSA Fan B Power Status</td><td>Bit 10 - -GX1/-GX3 Select Status</td></tr> <tr><td>Bit 3 - CSA Fan A Power Status</td><td>Bit 11 - -GZ2/-GZ3 Select Status</td></tr> <tr><td>Bit 4 - CSA Test Status</td><td>Bit 12 - Logic Side Status</td></tr> <tr><td>Bit 5 - Rate Status</td><td>Bit 13 - Gyro 3 Power Status</td></tr> <tr><td>Bit 6 - spare</td><td>Bit 14 - Gyro 2 Power Status</td></tr> <tr><td>Bit 7 - spare</td><td>Bit 15 - Gyro 1 Power Status</td></tr> </tbody> </table>				Bit 0 - DC Supply Status	Bit 8 - Gyro/Accel Format Status	Bit 1 - AC Supply Status	Bit 9 - +GY1/+GY2 Select Status	Bit 2 - CSA Fan B Power Status	Bit 10 - -GX1/-GX3 Select Status	Bit 3 - CSA Fan A Power Status	Bit 11 - -GZ2/-GZ3 Select Status	Bit 4 - CSA Test Status	Bit 12 - Logic Side Status	Bit 5 - Rate Status	Bit 13 - Gyro 3 Power Status	Bit 6 - spare	Bit 14 - Gyro 2 Power Status	Bit 7 - spare	Bit 15 - Gyro 1 Power Status
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Recommended Action:																			
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Time Type: ERT	Conversion Type: N/A																		
Test Type: DN																			
Red Alarm Type: OFF																			
Red Alarm Mask1:	Valid Bit Mask: 0xFFFF																		
Red Alarm Mask2:	Event Status Mask: 0xFFFF																		
In Hysteresis: 0	CCL Process: OFF																		
Out Hysteresis: 0	CCL Param: 0																		
F-0214	IMU_ST_WD5		AACS																
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(4) Scale Factor: ns																		
5th 1/10 second reading of IMU status word read from SIB 2483 word 1. The interpretation of each bit is as follows:																			
<table> <tbody> <tr><td>Bit 0 - DC Supply Status</td><td>Bit 8 - Gyro/Accel Format Status</td></tr> <tr><td>Bit 1 - AC Supply Status</td><td>Bit 9 - +GY1/+GY2 Select Status</td></tr> <tr><td>Bit 2 - CSA Fan B Power Status</td><td>Bit 10 - -GX1/-GX3 Select Status</td></tr> <tr><td>Bit 3 - CSA Fan A Power Status</td><td>Bit 11 - -GZ2/-GZ3 Select Status</td></tr> <tr><td>Bit 4 - CSA Test Status</td><td>Bit 12 - Logic Side Status</td></tr> <tr><td>Bit 5 - Rate Status</td><td>Bit 13 - Gyro 3 Power Status</td></tr> <tr><td>Bit 6 - spare</td><td>Bit 14 - Gyro 2 Power Status</td></tr> <tr><td>Bit 7 - spare</td><td>Bit 15 - Gyro 1 Power Status</td></tr> </tbody> </table>				Bit 0 - DC Supply Status	Bit 8 - Gyro/Accel Format Status	Bit 1 - AC Supply Status	Bit 9 - +GY1/+GY2 Select Status	Bit 2 - CSA Fan B Power Status	Bit 10 - -GX1/-GX3 Select Status	Bit 3 - CSA Fan A Power Status	Bit 11 - -GZ2/-GZ3 Select Status	Bit 4 - CSA Test Status	Bit 12 - Logic Side Status	Bit 5 - Rate Status	Bit 13 - Gyro 3 Power Status	Bit 6 - spare	Bit 14 - Gyro 2 Power Status	Bit 7 - spare	Bit 15 - Gyro 1 Power Status
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Recommended Action:																			
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Test Type: DN																			
Red Alarm Type: OFF																			
Red Alarm Mask1:	Valid Bit Mask: 0xFFFF																		
Red Alarm Mask2:	Event Status Mask: 0xFFFF																		
In Hysteresis: 0	CCL Process: OFF																		
Out Hysteresis: 0	CCL Param: 0																		

SCP TELEMETRY

F-0215	IMU_ST_WD6		AACS																					
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMIMUSTATUS(5) Scale Factor: ns																							
6th 1/10 second reading of IMU status word read from SIB 2483 word 1. The interpretation of each bit is as follows:																								
<table> <tbody> <tr><td>Bit 0 - DC Supply Status</td><td>Bit 8 - Gyro/Accel Format Status</td></tr> <tr><td>Bit 1 - AC Supply Status</td><td>Bit 9 - +GY1/+GY2 Select Status</td></tr> <tr><td>Bit 2 - CSA Fan B Power Status</td><td>Bit 10 - -GX1/-GX3 Select Status</td></tr> <tr><td>Bit 3 - CSA Fan A Power Status</td><td>Bit 11 - -GZ2/-GZ3 Select Status</td></tr> <tr><td>Bit 4 - CSA Test Status</td><td>Bit 12 - Logic Side Status</td></tr> <tr><td>Bit 5 - Rate Status</td><td>Bit 13 - Gyro 3 Power Status</td></tr> <tr><td>Bit 6 - spare</td><td>Bit 14 - Gyro 2 Power Status</td></tr> <tr><td>Bit 7 - spare</td><td>Bit 15 - Gyro 1 Power Status</td></tr> </tbody> </table>				Bit 0 - DC Supply Status	Bit 8 - Gyro/Accel Format Status	Bit 1 - AC Supply Status	Bit 9 - +GY1/+GY2 Select Status	Bit 2 - CSA Fan B Power Status	Bit 10 - -GX1/-GX3 Select Status	Bit 3 - CSA Fan A Power Status	Bit 11 - -GZ2/-GZ3 Select Status	Bit 4 - CSA Test Status	Bit 12 - Logic Side Status	Bit 5 - Rate Status	Bit 13 - Gyro 3 Power Status	Bit 6 - spare	Bit 14 - Gyro 2 Power Status	Bit 7 - spare	Bit 15 - Gyro 1 Power Status					
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Test Type: DN																								
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Red Alarm Mask1:	Valid Bit Mask: 0xFFFF																							
Red Alarm Mask2:	Event Status Mask: 0xFFFF																							
In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							
F-0216	IMU_ST_WD7		AACS																					
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMIMUSTATUS(6) Scale Factor: ns																							
7th 1/10 second reading of IMU status word read from SIB 2483 word 1. The interpretation of each bit is as follows:																								
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Bit 4 - CSA Test Status	Bit 12 - Logic Side Status																							
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Red Alarm Type: OFF																								
Red Alarm Mask1:	Valid Bit Mask: 0xFFFF																							
Red Alarm Mask2:	Event Status Mask: 0xFFFF																							
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Out Hysteresis: 0	CCL Param: 0																							

SCP TELEMETRY

F-0217	IMU_ST_WD8		AACS																
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(7) Scale Factor: ns																		
8th 1/10 second reading of IMU status word read from SIB 2483 word 1. The interpretation of each bit is as follows:																			
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Test Type: DN																			
Red Alarm Type: OFF																			
Red Alarm Mask1:	Valid Bit Mask: 0xFFFF																		
Red Alarm Mask2:	Event Status Mask: 0xFFFF																		
In Hysteresis: 0	CCL Process: OFF																		
Out Hysteresis: 0	CCL Param: 0																		
F-0218	IMU_ST_WD9		AACS																
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(8) Scale Factor: ns																		
9th 1/10 second reading of IMU status word read from SIB 2483 word 1. The interpretation of each bit is as follows:																			
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Time Type: ERT	Conversion Type: N/A																		
Test Type: DN																			
Red Alarm Type: OFF																			
Red Alarm Mask1:	Valid Bit Mask: 0xFFFF																		
Red Alarm Mask2:	Event Status Mask: 0xFFFF																		
In Hysteresis: 0	CCL Process: OFF																		
Out Hysteresis: 0	CCL Param: 0																		

SCP TELEMETRY

F-0219	IMU_ST_WD10		AACS																					
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMIMUSTATUS(9) Scale Factor: ns																							
10th 1/10 second reading of IMU status word read from SIB 2483 word 1. The interpretation of each bit is as follows:																								
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In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							
F-0220	IMUstatMASK		AACS																					
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AACSI0PRESET FSW Name: IMUSTATUSWORDMASK Scale Factor: ns																							
The IMU status word mask selects which bits of the IMU status word are compared with RedMan expected values during IMU data validation. Reset a bit (bit=0) in mask to avoid comparison with expected value. Set a bit (bit=1) in mask in order to compare it with expected value. (If selected bits of status word do not compare, gyro data is ignored for up to 2.5 seconds)																								
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Loss of Function: N/A																								
Recommended Action:																								
Impact of Loss of Tlm: Reduced REDMAN capability for IMU. Status not available for REDMAN decision-making.																								
Alternate Telemetry: None Related Measurements: <table> <tbody> <tr><td>Time Type: ERT</td><td>Conversion Type: N/A</td><td></td></tr> <tr><td>Test Type: DN</td><td></td><td></td></tr> <tr><td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr><td>Red Alarm Mask1:</td><td>Valid Bit Mask: 0xFFFF</td><td></td></tr> <tr><td>Red Alarm Mask2:</td><td>Event Status Mask: 0xFFFF</td><td></td></tr> <tr><td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr><td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </tbody> </table>				Time Type: ERT	Conversion Type: N/A		Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask1:	Valid Bit Mask: 0xFFFF		Red Alarm Mask2:	Event Status Mask: 0xFFFF		In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
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In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							

SCP TELEMETRY

F-0223	ISH_slewRATE		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52MISCCNTRLPRESET FSW Name: ISHCNTRLPARAMS Scale Factor: +19		
Slew rate of uplinked ISH control parameters. This is first item of uplinked ISH control parameters. This parameter is used to generate a pitchover delta-v maneuver. Please see flight rule 0034-E-AACS for the constraints on pitchover slews.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.81470E-06	
F-0227	MANUVR_FLAG		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: MANUVRVARSCPL FSW Name: MANUVRFLAGS Scale Factor: ns		
Maneuver flag word. Bit 0 - MAN enabled by command Bit 1 - MAN is executing Bit 2 - MAN has aborted Bit 3 - MAN terminated successfully Bit 4 - MOI MAN selected Bit 5 - MOI redundancy selected			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0228	MANUVR_STATE		AACS			
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: MANUVR'VARSCPL FSW Name: MANUVRSTATE Scale Factor: ns					
Maneuver state word.						
0 - Inactive 1 - Suspended 2 - Accelerometer Bias Cal 3 - Ullage Burn 4 - Main Engine Delta-V 5 - Hydrazine Thruster Delta-V						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = Inactive 1 = Suspended 2 = ACC_bias_cal 3 = Ullage_burn 4 = ME_manuvr 5 = HYDR_manuvr </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Inactive 1 = Suspended 2 = ACC_bias_cal 3 = Ullage_burn 4 = ME_manuvr 5 = HYDR_manuvr
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Inactive 1 = Suspended 2 = ACC_bias_cal 3 = Ullage_burn 4 = ME_manuvr 5 = HYDR_manuvr				
F-0231	MHSA_A-S_Q1		AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AAC\$2MHSA\$CPL FSW Name: MHSA\$AMIN\$DATA(0) Scale Factor: ns					
Scaled and biased MHSA A detector reading minus scaled MHSA S detector reading for quadrant 1.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Cannot verify data used in AACS processing. Degraded attitude control.						
Alternate Telemetry: MHSA raw data. Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
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SCP TELEMETRY

F-0232	MHSA_A-S_Q2	AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AAC2MHSA/CPL FSW Name: MHSAAMINSDATA(1) Scale Factor: ns	
Scaled and biased MHSA A detector reading minus scaled MHSA S detector reading for quadrant 2.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify data used in AACS processing. Degraded attitude control.		
Alternate Telemetry: MHSA raw data.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
F-0233	MHSA_A-S_Q3	AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AAC2MHSA/CPL FSW Name: MHSAAMINSDATA(2) Scale Factor: ns	
Scaled and biased MHSA A detector reading minus scaled MHSA S detector reading for quadrant 3.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify data used in AACS processing. Degraded attitude control.		
Alternate Telemetry: MHSA raw data.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	

SCP TELEMETRY

F-0234	MHSA_A-S_Q4	AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AAC2MHSA/CPL FSW Name: MHSAAMINSDATA(3) Scale Factor: ns	
Scaled and biased MHSA A detector reading minus scaled MHSA S detector reading for quadrant 4.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify data used in AACS processing. Degraded attitude control.		
Alternate Telemetry: MHSA raw data.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
F-0235	MHSA_B-S_Q1	AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AAC2MHSA/CPL FSW Name: MHSABMINSDATA(0) Scale Factor: ns	
Scaled and biased MHSA B detector reading minus scaled MHSA S detector reading for quadrant 1.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.		
Alternate Telemetry: MHSA raw data.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	

SCP TELEMETRY

F-0236	MHSA_B-S_Q2	AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AAC2MHSA/CPL FSW Name: MHSABMINSDATA(1) Scale Factor: ns	
Scaled and biased MHSA B detector reading minus scaled MHSA S detector reading for quadrant 2.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.		
Alternate Telemetry: MHSA raw data.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
F-0237	MHSA_B-S_Q3	AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AAC2MHSA/CPL FSW Name: MHSABMINSDATA(2) Scale Factor: ns	
Scaled and biased MHSA B detector reading minus scaled MHSA S detector reading for quadrant 3.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.		
Alternate Telemetry: MHSA raw data.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	

SCP TELEMETRY

F-0238	MHSA_B-S_Q4	AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AAC2MHSA_CPL FSW Name: MHSABMINSDATA(3) Scale Factor: ns	
Scaled and biased MHSA B detector reading minus scaled MHSA S detector reading for quadrant 4.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.		
Alternate Telemetry: MHSA raw data.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
F-0241	MHSA_DETA_Q1	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC2MHSA_CPL FSW Name: MHSARAWDATA Scale Factor: ns	
Raw MHSA data for detector A quadrant 1.		
Format: Bit 0: Sign bit. Negative when set. Bit 1: Over-range bit. Magnitude > 2^{14} when set. Bits 2..15: Detector voltage in counts.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify MHSA detector voltage. Loss of MHSA data degrades attitude control.		
Alternate Telemetry: None		
Related Measurements: Derived Channels V-0010 (MHSA_A1_VOLT), V-0011 (MHSA_A1_FLAG)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	

SCP TELEMETRY

F-0242	MHSA_DETA_Q2	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC2MHSACPL FSW Name: MHSARAWDATA Scale Factor: ns	
Raw MHSA data for detector A quadrant 2.		
Format: Bit 0: Sign bit. Negative when set. Bit 1: Over-range bit. Magnitude > 2^{14} when set. Bits 2..15: Detector voltage in counts.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify MHSA detector voltage. Loss of MHSA data degrades attitude control.		
Alternate Telemetry: None Related Measurements: Derived Channels V-0012 (MHSA_A2_VOLT), V-0013 (MHSA_A2_FLAG)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	
F-0243	MHSA_DETA_Q3	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC2MHSACPL FSW Name: MHSARAWDATA Scale Factor: ns	
Raw MHSA data for detector A quadrant 3.		
Format: Bit 0: Sign bit. Negative when set. Bit 1: Over-range bit. Magnitude > 2^{14} when set. Bits 2..15: Detector voltage in counts.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify MHSA detector voltage. Loss of MHSA data degrades attitude control.		
Alternate Telemetry: None Related Measurements: Derived Channels V-0014 (MHSA_A3_VOLT), V-0015 (MHSA_A3_FLAG)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	

SCP TELEMETRY

F-0244	MHSA_DETA_Q4	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC2MHSACPL FSW Name: MHSARAWDATA Scale Factor: ns	
Raw MHSA data for detector A quadrant 4.		
Format: Bit 0: Sign bit. Negative when set. Bit 1: Over-range bit. Magnitude > 2^{14} when set. Bits 2..15: Detector voltage in counts.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify MHSA detector voltage. Loss of MHSA data degrades attitude control.		
Alternate Telemetry: None Related Measurements: Derived Channels V-0016 (MHSA_A4_VOLT), V-0017 (MHSA_A4_FLAG)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	
F-0245	MHSA_DETB_Q1	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC2MHSACPL FSW Name: MHSARAWDATA Scale Factor: ns	
Raw MHSA data for detector B quadrant 1.		
Format: Bit 0: Sign bit. Negative when set. Bit 1: Over-range bit. Magnitude > 2^{14} when set. Bits 2..15: Detector voltage in counts.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify MHSA detector voltage. Loss of MHSA data degrades attitude control.		
Alternate Telemetry: None Related Measurements: Derived Channels V-0018 (MHSA_B1_VOLT), V-0018 (MHSA_B1_FLAG)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	

SCP TELEMETRY

F-0246	MHSA_DET_B_Q2	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC52MHSA_CPL FSW Name: MHSARAWDATA Scale Factor: ns	
Raw MHSA data for detector B quadrant 2.		
Format: Bit 0: Sign bit. Negative when set. Bit 1: Over-range bit. Magnitude > 2^14 when set. Bits 2..15: Detector voltage in counts.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify MHSA detector voltage. Loss of MHSA data degrades attitude control.		
Alternate Telemetry: None Related Measurements: Derived Channels V-0020 (MHSA_B2_VOLT), V-0021 (MHSA_B2_FLAG)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	
F-0247	MHSA_DET_B_Q3	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC52MHSA_CPL FSW Name: MHSARAWDATA Scale Factor: ns	
Raw MHSA data for detector B quadrant 3.		
Format: Bit 0: Sign bit. Negative when set. Bit 1: Over-range bit. Magnitude > 2^14 when set. Bits 2..15: Detector voltage in counts.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify MHSA detector voltage. Loss of MHSA data degrades attitude control.		
Alternate Telemetry: None Related Measurements: Derived Channels V-0022 (MHSA_B3_VOLT), V-0023 (MHSA_B3_FLAG)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	

SCP TELEMETRY

F-0248	MHSA_DET_B_Q4	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC2MHSACPL FSW Name: MHSARAWDATA Scale Factor: ns	
Raw MHSA data for detector B quadrant 4.		
Format: Bit 0: Sign bit. Negative when set. Bit 1: Over-range bit. Magnitude > 2^{14} when set. Bits 2..15: Detector voltage in counts.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify MHSA detector voltage. Loss of MHSA data degrades attitude control.		
Alternate Telemetry: None Related Measurements: Derived Channels V-0024 (MHSA_B4_VOLT), V-0025 (MHSA_B4_FLAG)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	
F-0251	MHSA_DET_S_Q1	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC2MHSACPL FSW Name: MHSARAWDATA Scale Factor: ns	
Raw MHSA data for detector S quadrant 1.		
Format: Bit 0: Sign bit. Negative when set. Bit 1: Over-range bit. Magnitude > 2^{14} when set. Bits 2..15: Detector voltage in counts.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify MHSA detector voltage. Loss of MHSA data degrades attitude control.		
Alternate Telemetry: None Related Measurements: Derived Channels V-0026 (MHSA_S1_VOLT), V-0027 (MHSA_S1_FLAG)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	

SCP TELEMETRY

F-0252	MHSA_DETS_Q2	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC2MHSACPL FSW Name: MHSARAWDATA Scale Factor: ns	
Raw MHSA data for detector S quadrant 2.		
Format: Bit 0: Sign bit. Negative when set. Bit 1: Over-range bit. Magnitude > 2^{14} when set. Bits 2..15: Detector voltage in counts.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify MHSA detector voltage. Loss of MHSA data degrades attitude control.		
Alternate Telemetry: None Related Measurements: Derived Channels V-0028 (MHSA_S2_VOLT), V-0029 (MHSA_S2_FLAG)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	
F-0253	MHSA_DETS_Q3	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC2MHSACPL FSW Name: MHSARAWDATA Scale Factor: ns	
Raw MHSA data for detector S quadrant 3.		
Format: Bit 0: Sign bit. Negative when set. Bit 1: Over-range bit. Magnitude > 2^{14} when set. Bits 2..15: Detector voltage in counts.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify MHSA detector voltage. Loss of MHSA data degrades attitude control.		
Alternate Telemetry: None Related Measurements: Derived Channels V-0030 (MHSA_S3_VOLT), V-0031 (MHSA_S3_FLAG)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	

SCP TELEMETRY

F-0254	MHSA_DETS_Q4	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC52MHSA/CPL FSW Name: MHSARAWDATA Scale Factor: ns	
Raw MHSA data for detector S quadrant 4.		
Format: Bit 0: Sign bit. Negative when set. Bit 1: Over-range bit. Magnitude > 2^14 when set. Bits 2..15: Detector voltage in counts.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify MHSA detector voltage. Loss of MHSA data degrades attitude control.		
Alternate Telemetry: None Related Measurements: Derived Channels V-0032 (MHSA_S4_VOLT), V-0033 (MHSA_S4_FLAG)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	
F-0260	MHSA_PITCH	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52MHSA/CPL FSW Name: PITCHERROR Scale Factor: +16	
S/C pitch error computed from MHSA penetration indices. Used by mapping Kalman filter.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AAC5 processing. Degraded attitude control.		
Alternate Telemetry: MHSA raw data. Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0261	MHSA_ROLL	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52MHSA_CPL FSW Name: ROLLERROR Scale Factor: +16	
S/C roll error computed from MHSA penetration indices. Used by mapping Kalman filter.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing.		
Alternate Telemetry: MHSA raw data.		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
F-0262	MHSAPitchC11	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52MAPCNTRL_CPL FSW Name: PITCHCOVAR Scale Factor: +16	
MHSA Kalman filter pitch covariance term (1,1).		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Mission Ops cannot evaluate MHSA Kalman filter performance.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0263	MHSApitchC22	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC\\$2MAPCNTRL CPL FSW Name: PITCHCOVAR Scale Factor: +16	
MHSA Kalman filter pitch covariance term (2,2).		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Mission Ops cannot evaluate MHSA Kalman filter performance.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s^2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
F-0264	MHSArollC11	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC\\$2MAPCNTRL CPL FSW Name: ROLLCOVAR Scale Factor: +16	
MHSA Kalman filter roll covariance term (1,1).		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Mission Ops cannot evaluate MHSA Kalman filter performance.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r^2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0265	MHSArollC22	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2MAPCNTRLCPL FSW Name: ROLLCOVAR Scale Factor: +16	
MHSA Kalman filter roll covariance term (2,2).		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Mission Ops cannot evaluate MHSA Kalman filter performance.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s^2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
F-0266	MHSA_QD_BAD	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AACCS2MHSACPL FSW Name: QUADDATABAD Scale Factor: ns	
Bit map indicating which MHSA quadrants are unusable. Bit 0 set = Quad 1 unusable Bit 1 set = Quad 2 unusable Bit 2 set = Quad 3 unusable Bit 3 set = Quad 4 unusable		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: No knowledge of which MHSA quadrants are good. Bad MHSA quadrants may be accessed.		
Alternate Telemetry: Raw MHSA data.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	

SCP TELEMETRY

F-0267	MHSA_QD_VIEW	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC2MHSACPL FSW Name: QUADVIEWSPACE Scale Factor: ns	
Bit map indicating which MHSA quadrants view space. Bit 0 set = Quad 1 views space Bit 1 set = Quad 2 views space Bit 2 set = Quad 3 views space Bit 3 set = Quad 4 views space		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: No knowledge of which quadrants are viewing space.		
Alternate Telemetry: Raw MHSA data.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
F-0268	MOI_STATUS	AACS
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: MANUVRVARSCPL FSW Name: MOISTATE Scale Factor: ns	
MOI Status Word. 0 - Off 1 - Start 2 - Phase_1 3 - Phase_2 4 - End		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: N/A		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = START 2 = PHASE_1 3 = PHASE_2 4 = END

SCP TELEMETRY

F-0270	MOM_DYAD_0		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2MOMUNLPRESET FSW Name: INERTIADYADIC(0) Scale Factor: +3		
Inertial dyadic matrix element. Modified by command only. Equivalent to Ixx term.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Kgm2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.50000E-01	
F-0271	MOM_DYAD_4		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2MOMUNLPRESET FSW Name: INERTIADYADIC(4) Scale Factor: +3		
Inertial dyadic matrix element. Modified by command only. Equivalent to Iyy term.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Kgm2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.50000E-01	

SCP TELEMETRY

F-0272	MOM_DYAD_8	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52MOMUNLPRESET FSW Name: INERTIADYADIC(8) Scale Factor: +3	
Inertial dyadic matrix element. Modified by command only. Equivalent to Izz term.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: N/A		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Kgm2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.50000E-01
F-0274	MOM_EMERG_WT	AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AAC52MOMUNLPRESET FSW Name: EMTHRUSTERWARMUPTIME Scale Factor: ns	
Emergency unload thruster warm up time. Modified by command only.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: N/A		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: secs CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.00000E-01

SCP TELEMETRY

F-0276	MOM_PRESETS		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AACCS2MOMUNLPRESET FSW Name: MOMUNLENABLE Scale Factor: ns					
Packed word of nominal unloading booleans, modified by command only.						
Bit 0 - momentum unload status (see child channel F-0720) Bit 1 - spare						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-0277	MOM_UNL_STAT		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AACCS2MOMUNLCPL FSW Name: MOMUNLSTATUS Scale Factor: ns					
Momentum unload status.						
Bits 0-3 Spare bits Bits 4-7 Momentum Unload Axis (0=Timer'Is'Off, 1=Emer, 2=Spin, 3=Yaw, 4=Off) Bits 8-11 Momentum Unload State (0=Standby, 1=Warmup, 2=Unload, 3=Stop, 4=Cleanup) Bits 12-15 Unload Seq State (0=Ready, 1=Emer'Disable, 2=Fire, 3=Emer'Enab, 4=FFEnd, 5=End)						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Mission Ops must derive sequence state from sys mom and thruster firings.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY					
F-0278	MOM_WARMUP_T	AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AACSS2MOMUNLPRESET FSW Name: THRUSTERWARMUPTIME Scale Factor: ns	Thruster warm up time before firing for nominal momentum unloading. Modified by command only.			
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: OFF CCL Process: OFF CCL Param: 0</td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-0280	O_NORMAL_0	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: ONORMAL(0) Scale Factor: +15	Slit normal in O'frame (X component)			
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of STAREX troubleshooting information.					
Alternate Telemetry: Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0</td><td>Coefficients: n0 = 0.00000E+00 n1 = 6.10352E-05</td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 6.10352E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 6.10352E-05			

SCP TELEMETRY

F-0281	O_NORMAL_1	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: ONORMAL(1) Scale Factor: +15				
Slit normal in O'frame (Y component)					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of STAREX troubleshooting information.					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> Coefficients: n0 = 0.00000E+00 n1 = 6.10352E-05 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 6.10352E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 6.10352E-05			
F-0282	O_NORMAL_2	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: ONORMAL(2) Scale Factor: +15				
Slit normal in O'frame (Z component)					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of STAREX troubleshooting information.					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> Coefficients: n0 = 0.00000E+00 n1 = 6.10352E-05 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 6.10352E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 6.10352E-05			

SCP TELEMETRY

F-0283	PACK_ATT		AACS																
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC52GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns																		
Packed attitude status word contains 16 bits describing the status of various attitude status parameters. These quantities are represented by channels F/N-0740 thru F/N-0755.																			
<table> <tbody> <tr><td>Bit 0 - Star IRE Status</td><td>Bit 8 - Maneuver Active Status</td></tr> <tr><td>Bit 1 - Backup IRE Status</td><td>Bit 9 - Sun On Array Status</td></tr> <tr><td>Bit 2 - MHSA Status</td><td>Bit 10 - New Start Status</td></tr> <tr><td>Bit 3 - Sun Check Status</td><td>Bit 11 - Launch Tach Locked Status</td></tr> <tr><td>Bit 4 - MHSA View Status</td><td>Bit 12 - Sun Outside Threshold Status</td></tr> <tr><td>Bit 5 - MHSA Data Status</td><td>Bit 13 - Sun Differs From Ephem Status</td></tr> <tr><td>Bit 6 - Sun Filter Needs Init Status</td><td>Bit 14 - Spare</td></tr> <tr><td>Bit 7 - Star Updating Status</td><td>Bit 15 - Contingency Request Pending Status</td></tr> </tbody> </table>				Bit 0 - Star IRE Status	Bit 8 - Maneuver Active Status	Bit 1 - Backup IRE Status	Bit 9 - Sun On Array Status	Bit 2 - MHSA Status	Bit 10 - New Start Status	Bit 3 - Sun Check Status	Bit 11 - Launch Tach Locked Status	Bit 4 - MHSA View Status	Bit 12 - Sun Outside Threshold Status	Bit 5 - MHSA Data Status	Bit 13 - Sun Differs From Ephem Status	Bit 6 - Sun Filter Needs Init Status	Bit 14 - Spare	Bit 7 - Star Updating Status	Bit 15 - Contingency Request Pending Status
Bit 0 - Star IRE Status	Bit 8 - Maneuver Active Status																		
Bit 1 - Backup IRE Status	Bit 9 - Sun On Array Status																		
Bit 2 - MHSA Status	Bit 10 - New Start Status																		
Bit 3 - Sun Check Status	Bit 11 - Launch Tach Locked Status																		
Bit 4 - MHSA View Status	Bit 12 - Sun Outside Threshold Status																		
Bit 5 - MHSA Data Status	Bit 13 - Sun Differs From Ephem Status																		
Bit 6 - Sun Filter Needs Init Status	Bit 14 - Spare																		
Bit 7 - Star Updating Status	Bit 15 - Contingency Request Pending Status																		
Loss of Function: N/A																			
Recommended Action:																			
Impact of Loss of Tlm: Less capability to determine AACS status. Status will have to be tracked by other means.																			
Alternate Telemetry: None Related Measurements: <table> <tbody> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </tbody> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0														
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0																		
F-0287	PID_INT_X		AACS																
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRVARSCL FSW Name: PIDINTTERM(0) Scale Factor: +7																		
X axis integral (I) term. (for maneuver mode only)																			
Loss of Function: N/A																			
Recommended Action:																			
Impact of Loss of Tlm: N/A																			
Alternate Telemetry: None Related Measurements: <table> <tbody> <tr> <td>Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: POLY EU Units: rsec CCL Process: OFF CCL Param: 0</td><td>Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02</td><td></td></tr> </tbody> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rsec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02													
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rsec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02																	

SCP TELEMETRY

F-0288	PID_INT_Y		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRVARSCPL FSW Name: PIDINTTERM(1) Scale Factor: +7					
Y axis integral (I) term. (for maneuver mode only)						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: rsec CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rsec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rsec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02				
F-0289	PID_INT_Z		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRVARSCPL FSW Name: PIDINTTERM(2) Scale Factor: +7					
Z axis integral (I) term. (for maneuver mode only)						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: rsec CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rsec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rsec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02				

SCP TELEMETRY

F-0290	POS_ERR_X		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52PIDCPL FSW Name: POSERR(0) Scale Factor: +16		
Attitude control RWA PID X axis position error. Valid for Sun, ANS, ISH, CSA Back-up, and Map states.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify info used in AAC5 processing. Degraded attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0291	POS_ERR_Y		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52PIDCPL FSW Name: POSERR(1) Scale Factor: +16		
Attitude control RWA PID Y axis position error. Valid for Sun, ANS, ISH, CSA Back-up, and Map states.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify info used in AAC5 processing. Degraded attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	

SCP TELEMETRY

F-0292	POS_ERR_Z		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2PIDCPL FSW Name: POSERR(2) Scale Factor: +16		
Attitude control RWA PID Z axis position error. Valid for Sun, ANS, ISH, CSA Back-up, and Map states.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0293	POS_INTEERR_X		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2PIDCPL FSW Name: POSSUM(0) Scale Factor: +14		
Attitude control RWA PID X axis position error integral. Valid for Sun Coning, ANS, ISH, DSN-ISH, CSA Back-up, and Map control states.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rsec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04	

SCP TELEMETRY

F-0294	POS_INTEERR_Y		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2PIDCPL FSW Name: POSSUM(1) Scale Factor: +14		
Attitude control RWA PID Y axis position error integral. Valid for Sun Coning, ANS, ISH, DSN-ISH, CSA Back-up, and Map control states.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rsec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04	
F-0295	POS_INTEERR_Z		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2PIDCPL FSW Name: POSSUM(2) Scale Factor: +14		
Attitude control RWA PID Z axis position error integral. Valid for Sun Coning, ANS, ISH, DSN-ISH, CSA Back-up, and Map control states.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rsec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04	

SCP TELEMETRY

F-0297	PROP_SUN_X		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52CPL FSW Name: PROPSUN(0) Scale Factor: +16		
X component of the unfiltered, gyro-propagated unit Sun vector, buffered from AAC510. Used for SSA processing and the Sun Monitor software.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: F-0100 (FILT_SUN_X)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0298	PROP_SUN_Y		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52CPL FSW Name: PROPSUN(1) Scale Factor: +16		
Y component of the unfiltered, gyro-propagated unit Sun vector, buffered from AAC510. Used for SSA processing and the Sun Monitor software.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: F-0101 (FILT_SUN_Y)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	

SCP TELEMETRY

F-0299	PROP_SUN_Z		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACS2CPL FSW Name: PROPSUN(2) Scale Factor: +16		
Z component of the unfiltered, gyro-propagated unit Sun vector, buffered from AACS10. Used for SSA processing and the Sun Monitor software.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: F-0102 (FILT_SUN_Z)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0301	QUAT_A2B_1		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACS2EPHEMCPL FSW Name: QUATBFROMA(0) Scale Factor: +16		
1st element of A-to-B quaternion, derived from mapping ephemeris angles and position error used by MHSA and CSA back-up modes.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0071 (EPH_ANG_NODE), F-0072 (EPH_ANG_INCL), F-0073 (EPH_ANG_ORBT)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	

SCP TELEMETRY

F-0302	QUAT_A2B_2		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2EPHEMCPL FSW Name: QUATBFROMA(1) Scale Factor: +16		
2nd element of A-to-B quaternion, derived from mapping ephemeris angles and position error used by MHSA and CSA back-up modes.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0071 (EPH_ANG_NODE), F-0072 (EPH_ANG_INCL), F-0073 (EPH_ANG_ORBT)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0303	QUAT_A2B_3		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2EPHEMCPL FSW Name: QUATBFROMA(2) Scale Factor: +16		
3rd element of A-to-B quaternion, derived from mapping ephemeris angles and position error used by MHSA and CSA back-up modes.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0071 (EPH_ANG_NODE), F-0072 (EPH_ANG_INCL), F-0073 (EPH_ANG_ORBT)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	

SCP TELEMETRY

F-0305	QUAT_CORR_1	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: QBFROMECORRFOR'A10(0) Scale Factor: +24	
Correction to AACS10 body from inertial quaternion resulting from identification of a CSA transit with a cataloged star.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.		
Alternate Telemetry: N/A		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.19209E-07
F-0306	QUAT_CORR_2	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: QBFROMECORRFOR'A10(1) Scale Factor: +24	
Correction to AACS10 body from inertial quaternion resulting from identification of a CSA transit with a cataloged star.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.		
Alternate Telemetry: N/A		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.19209E-07

SCP TELEMETRY

F-0307	QUAT_CORR_3	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: QBFROMECORRFOR'A10(2) Scale Factor: +24	
Correction to AACS10 body from inertial quaternion resulting from identification of a CSA transit with a cataloged star.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.		
Alternate Telemetry: N/A		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.19209E-07
F-0308	QUAT_CORR_4	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: QBFROMECORRFOR'A10(3) Scale Factor: +24	
Correction to AACS10 body from inertial quaternion resulting from identification of a CSA transit with a cataloged star.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.19209E-07

SCP TELEMETRY

F-0311	QUAT_E2L_1	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: QTRNLFROME(0) Scale Factor: +16				
1st component of local orbit from Inertial Quaternion, used for attitude initialization.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05			
F-0312	QUAT_E2L_2	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: QTRNLFROME(1) Scale Factor: +16				
2nd component of local orbit from Inertial Quaternion, used for attitude initialization.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05			

SCP TELEMETRY

F-0313	QUAT_E2L_3	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: QTRNLFROME(2) Scale Factor: +16				
3rd component of local orbit from Inertial Quaternion, used for attitude initialization.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0 </td><td> Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05			
F-0314	QUAT_E2L_4	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: QTRNLFROME(3) Scale Factor: +16				
4th component of local orbit from Inertial Quaternion, used for attitude initialization.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0 </td><td> Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05			

SCP TELEMETRY

F-0315	QUAT_F_I2B_1	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: TLMQTRNBFROME(0) Scale Factor: +16	
1st element of filtered inertial to body quaternion.		
Loss of Function: Entry into Safe Mode		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
F-0316	QUAT_F_I2B_2	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: TLMQTRNBFROME(1) Scale Factor: +16	
2nd element of filtered inertial to body quaternion.		
Loss of Function: Entry into Safe Mode		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0317	QUAT_F_I2B_3	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: TLMQTRNBFROME(2) Scale Factor: +16				
3rd element of filtered inertial to body quaternion.					
Loss of Function: Entry into Safe Mode					
Recommended Action:					
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0 </td><td> Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05			
F-0318	QUAT_F_I2B_4	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: TLMQTRNBFROME(3) Scale Factor: +16				
4th element of filtered inertial to body quaternion.					
Loss of Function: Entry into Safe Mode					
Recommended Action:					
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0 </td><td> Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05			

SCP TELEMETRY

F-0321	QUAT_I2B_1	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52GLOBALCPL FSW Name: QUATBFROMTBU(0) Scale Factor: +16	
1st element of inertial-to-body quaternion used for HGA pointing in MHSA Back-upmode. This quaternion is continually computed during mapping phase from mapping-orbit ephemeris and the Primary Kalman filter position errors.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.		
Alternate Telemetry: I-to-B quaternion (FILBOODYQ).		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: unk CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
F-0322	QUAT_I2B_2	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52GLOBALCPL FSW Name: QUATBFROMTBU(1) Scale Factor: +16	
2nd element of inertial-to-body quaternion used for HGA pointing in MHSA Back-upmode. This quaternion is continually computed during mapping phase from mapping-orbit ephemeris and the Primary Kalman filter position errors.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.		
Alternate Telemetry: I-to-B quaternion (FILBOODYQ).		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: unk CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0323	QUAT_I2B_3	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52GLOBALCPL FSW Name: QUATBFROMTBU(2) Scale Factor: +16	
3rd element of inertial-to-body quaternion used for HGA pointing in MHSA Back-upmode. This quaternion is continually computed during mapping phase from mapping-orbit ephemeris and the Primary Kalman filter position errors.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.		
Alternate Telemetry: I-to-B quaternion (FILBOODYQ).		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: unk CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
F-0324	QUAT_I2B_4	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52GLOBALCPL FSW Name: QUATBFROMTBU(3) Scale Factor: +16	
4th element of inertial-to-body quaternion used for HGA pointing in MHSA Back-upmode. This quaternion is continually computed during mapping phase from mapping-orbit ephemeris and the Primary Kalman filter position errors.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.		
Alternate Telemetry: I-to-B quaternion (FILBOODYQ).		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: unk CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0327	RTEsmRAWBD_X		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: RAWBODYRATES(0) Scale Factor: +19		
Safe Mode X axis raw spacecraft body rate computed every 10 hz using gyro counts.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.81470E-06	
F-0328	RTEsmRAWBD_Y		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: RAWBODYRATES(1) Scale Factor: +19		
Safe Mode Y axis raw spacecraft body rate computed every 10 hz using gyro counts.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.81470E-06	

SCP TELEMETRY

F-0329	RTEsmRAWBD_Z	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: RAWBODYRATES(2) Scale Factor: +19				
Safe Mode Z axis raw spacecraft body rate computed every 10 hz using gyro counts.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0 </td><td> Coefficients: n0 = 0.00000E+00 n1 = 3.81470E-06 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.81470E-06
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.81470E-06			
F-0330	RTE_CMD_X	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI2PIDCPL FSW Name: COMRATE Scale Factor: +23				
Attitude control RWA PID X axis commanded rate. Valid for Sun-avoidance, Sun Coning, ANS, ISH slew and Search states.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Attitude control performance analysis short coming.					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0 </td><td> Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07			

SCP TELEMETRY

F-0331	RTE_CMD_Y	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2PIDCPL FSW Name: COMRATE Scale Factor: +23				
Attitude control RWA PID Y axis commanded rate. Valid for Sun-avoidance, Sun Coning, ANS, ISH slew and Search states.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Attitude control performance analysis short coming.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07			
F-0332	RTE_CMD_Z	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2PIDCPL FSW Name: COMRATE Scale Factor: +23				
Attitude control RWA PID Z axis commanded rate. Valid for Sun-avoidance, Sun Coning, ANS, ISH slew and Search states.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Attitude control performance analysis short coming.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07			

SCP TELEMETRY

F-0333	RTE_FLTBDY_X	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: TLMFILBODYRATES(0) Scale Factor: +23				
X filtered body rate.					
Loss of Function: Entry into Safe Mode					
Recommended Action:					
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0 </td><td> Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07			
F-0334	RTE_FLTBDY_Y	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: TLMFILBODYRATES(1) Scale Factor: +23				
Y filtered body rate.					
Loss of Function: Entry into Safe Mode					
Recommended Action:					
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0 </td><td> Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07			

SCP TELEMETRY

F-0335	RTE_FLTBDY_Z	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: TLMFILBODYRATES(2) Scale Factor: +23	
Z filtered body rate.		
Loss of Function: Entry into Safe Mode		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Attitude control will be degraded.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.38419E-07
F-0336	RTE_INTERR_X	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI2PIDCPL FSW Name: RATESUM(0) Scale Factor: +21	
Attitude control RWA PID X axis rate error integral. Valid for Sun Coning, ANS, and Search states.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.53674E-07

SCP TELEMETRY

F-0337	RTE_INTERR_Y		AACS																					
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2PIDCPL FSW Name: RATESUM(1) Scale Factor: +21																							
Attitude control RWA PID Y axis rate error integral. Valid for Sun Coning, ANS, and Search states.																								
Loss of Function: N/A																								
Recommended Action:																								
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.																								
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 2px;">Time Type: ERT</td><td style="width: 33%; padding: 2px;">Conversion Type: POLY</td><td style="width: 33%; padding: 2px;">Coefficients: n0 = 0.00000E+00 n1 = 9.53674E-07</td></tr> <tr> <td>Test Type: EU</td><td>EU Units: r</td><td></td></tr> <tr> <td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr> <td>Red Alarm Lo:</td><td></td><td></td></tr> <tr> <td>Red Alarm Hi:</td><td></td><td></td></tr> <tr> <td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr> <td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </table>				Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 0.00000E+00 n1 = 9.53674E-07	Test Type: EU	EU Units: r		Red Alarm Type: OFF			Red Alarm Lo:			Red Alarm Hi:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 0.00000E+00 n1 = 9.53674E-07																						
Test Type: EU	EU Units: r																							
Red Alarm Type: OFF																								
Red Alarm Lo:																								
Red Alarm Hi:																								
In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							
F-0338	RTE_INTERR_Z		AACS																					
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2PIDCPL FSW Name: RATESUM(2) Scale Factor: +21																							
Attitude control RWA PID Z axis rate error integral. Valid for Sun Coning, ANS, and Search states.																								
Loss of Function: N/A																								
Recommended Action:																								
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.																								
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 2px;">Time Type: ERT</td><td style="width: 33%; padding: 2px;">Conversion Type: POLY</td><td style="width: 33%; padding: 2px;">Coefficients: n0 = 0.00000E+00 n1 = 9.53674E-07</td></tr> <tr> <td>Test Type: EU</td><td>EU Units: r</td><td></td></tr> <tr> <td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr> <td>Red Alarm Lo:</td><td></td><td></td></tr> <tr> <td>Red Alarm Hi:</td><td></td><td></td></tr> <tr> <td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr> <td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </table>				Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 0.00000E+00 n1 = 9.53674E-07	Test Type: EU	EU Units: r		Red Alarm Type: OFF			Red Alarm Lo:			Red Alarm Hi:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: POLY	Coefficients: n0 = 0.00000E+00 n1 = 9.53674E-07																						
Test Type: EU	EU Units: r																							
Red Alarm Type: OFF																								
Red Alarm Lo:																								
Red Alarm Hi:																								
In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							

SCP TELEMETRY

F-0339	RTE_RAWBOD_X		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: RAWBODYRATES(0) Scale Factor: +18		
X axis raw spacecraft body rate computed every 10 hz using gyro counts.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.62939E-06	
F-0340	RTE_RAWBOD_Y		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: RAWBODYRATES(1) Scale Factor: +18		
Y axis raw spacecraft body rate computed every 10 hz using gyro counts.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.62939E-06	

SCP TELEMETRY

F-0341	RTE_RAWBOD_Z		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: RAWBODYRATES(2) Scale Factor: +18		
Z axis raw spacecraft body rate computed every 10 hz using gyro counts.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.62939E-06	
F-0342	PIDTRQ_X		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI2PIDCPL FSW Name: TORQ(0) Scale Factor: +18		
If RWA control, torque command for S/C X axis from PID controller logic. If thruster control, delta command for S/C X axis from PID logic.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Mission Ops must derive torque from RWA torque command.			
Alternate Telemetry: WALTORQX, WALTORQS			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Sec,Nm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.62939E-06	

SCP TELEMETRY

F-0343	PIDTRQ_Y		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2PIDCPL FSW Name: TORQ(1) Scale Factor: +18		
If RWA control, torque command for S/C Y axis from PID controller logic. If thruster control, delta command for S/C Y axis from PID logic.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Mission Ops must derive torque from RWA torque command.			
Alternate Telemetry: WALTORQY, WALTORQS			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Sec,Nm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.62939E-06	
F-0344	PIDTRQ_Z		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2PIDCPL FSW Name: TORQ(2) Scale Factor: +18		
If RWA control, torque command for S/C Z axis from PID controller logic. If thruster control, delta command for S/C Z axis from PID logic.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Mission Ops must derive torque from RWA torque command.			
Alternate Telemetry: WALTORQZ, WALTORQS			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Sec,Nm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.62939E-06	

SCP TELEMETRY

F-0345	RWA_RAW_X		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC52RWACPL FSW Name: RWARAWWORD(0) Scale Factor: ns		
X raw RWA input data word. Format -			
Bit 0 - Sign Bit Bits 1..2- Wheel ID: x=00, Y=01, Z=10, S=11 Bit 3 - Power-ON Condition Bit 4 - Power-Limited Condition Bit 5..15- Eleven Bit Integer Speed, LSB = 5 RPM			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.			
Alternate Telemetry: None			
Related Measurements: Derived Channels V-0040 (RWA_X_D_SPD), V-0041 (RWA_X_POWER), V-0042 (RWA_X_P_LMTD)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0		
F-0346	RWA_RAW_Y		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC52RWACPL FSW Name: RWARAWWORD(1) Scale Factor: ns		
Y raw RWA input data word. Format -			
Bit 0 - Sign Bit Bits 1..2- Wheel ID: x=00, Y=01, Z=10, S=11 Bit 3 - Power-ON Condition Bit 4 - Power-Limited Condition Bit 5..15- Eleven Bit Integer Speed, LSB = 5 RPM			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.			
Alternate Telemetry: None			
Related Measurements: Derived Channels V-0044 (RWA_Y_D_SPD), V-0045 (RWA_Y_POWER), V-0046 (RWA_Y_P_LMTD)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0		

SCP TELEMETRY

F-0347	RWA_RAW_Z	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC52RWACPL FSW Name: RWARAWWORD(2) Scale Factor: ns	
Z raw RWA input data word. Format -		
Bit 0 - Sign Bit Bits 1..2- Wheel ID: x=00, Y=01, Z=10, S=11 Bit 3 - Power-ON Condition Bit 4 - Power-Limited Condition Bit 5..15- Eleven Bit Integer Speed, LSB = 5 RPM		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.		
Alternate Telemetry: None Related Measurements: Derived Channels V-0048 (RWA_Z_D_SPD), V-0049 (RWA_Z_POWER), V-0050 (RWA_Z_P_LMTD)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	
F-0348	RWA_RAW_S	AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC52RWACPL FSW Name: RWARAWWORD(3) Scale Factor: ns	
S raw RWA input data word. Format -		
Bit 0 - Sign Bit Bits 1..2- Wheel ID: x=00, Y=01, Z=10, S=11 Bit 3 - Power-ON Condition Bit 4 - Power-Limited Condition Bit 5..15- Eleven Bit Integer Speed, LSB = 5 RPM		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.		
Alternate Telemetry: None Related Measurements: Derived Channels V-0052 (RWA_S_D_SPD), V-0053 (RWA_S_POWER), V-0054 (RWA_S_P_LMTD)		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0	

SCP TELEMETRY

F-0350	RWA_SPD_S	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52RWACPL FSW Name: WHLSPD(3) Scale Factor: ns	
Skew RWA speed.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: None		
Alternate Telemetry: F-0348 (RWA_RAW_S)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rpm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.00000E+00
F-0351	RWA_SPD_X	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52RWACPL FSW Name: WHLSPD(0) Scale Factor: ns	
X RWA speed.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: None		
Alternate Telemetry: F-0345 (RWA_RAW_X)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rpm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.00000E+00

SCP TELEMETRY

F-0352	RWA_SPD_Y	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52RWACPL FSW Name: WHLSPD(1) Scale Factor: ns	
Y RWA speed.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: None		
Alternate Telemetry: F-0346 (RWA_RAW_Y)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rpm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.00000E+00
F-0353	RWA_SPD_Z	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC52RWACPL FSW Name: WHLSPD(2) Scale Factor: ns	
Z RWA speed.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: None		
Alternate Telemetry: F-0347 (RWA_RAW_Z)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rpm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.00000E+00

SCP TELEMETRY

F-0355	RWA_WHLTRQ_S	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2RWACPL FSW Name: WHLTORQ(3) Scale Factor: ns				
Two's complement torque command issued to S RWA.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Lack of RWA torque info. Degraded attitude control.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: Nm CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 5.46875E-04 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Nm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.46875E-04
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Nm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.46875E-04			
F-0356	RWA_WHLTRQ_X	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2RWACPL FSW Name: WHLTORQ(0) Scale Factor: ns				
Two's complement torque command issued to X RWA.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Lack of RWA torque info. Degraded attitude control.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: Nm CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 5.46875E-04 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Nm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.46875E-04
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Nm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.46875E-04			

SCP TELEMETRY

F-0357	RWA_WHLTRQ_Y		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2RWACPL FSW Name: WHLTORQ(1) Scale Factor: ns		
Two's complement torque command issued to Y RWA.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Lack of RWA torque info. Degraded attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Nm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.46875E-04	
F-0358	RWA_WHLTRQ_Z		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2RWACPL FSW Name: WHLTORQ(2) Scale Factor: ns		
Two's complement torque command issued to Z RWA.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Lack of RWA torque info. Degraded attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Nm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.46875E-04	

SCP TELEMETRY

F-0360	SAM_AZ_ANG		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SAMAZTANGLE Scale Factor: +13		
SAM azimuth angle in the control frame. Note that angle range has already been applied.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less knowledge by SCP of SAM Azimuth Angle.			
Alternate Telemetry: None			
Related Measurements: Derived Channel V-0082 (SAM_AZang_CF)			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04	
F-0361	SAM_AZ_CMD		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SAMAZICMD Scale Factor: ns		
SAM azimuth command.			
Bit 0 - Axis (0 = Elevation, 1 = Azimuth) Bit 1 - Direction (0 = Reverse, 1 = Forward) Bit 2 - Mode (0 = Rate Mode, 1 = Step Mode) Bit 3 - Motion (0 = Go, 1 = Stop) Bits 4:15 - (Rate Code or Number of Steps)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0362	SAM_AZ_POS		AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AACSS2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns		
SAM azimuth position in encoder frame. Third word read from SAM every 1/2 second.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None Related Measurements: Derived Channel V-0072 (SAM_AZpos_CF)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: ON CCL Param: 0		
F-0363	SAM_AZ_TRG		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SAMAZITARGET Scale Factor: +13		
SAM target azimuth angle in the control frame. Note that angle range has already been applied.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less knowledge by SCP of SAM Azimuth Angle			
Alternate Telemetry: F-0360 (SAM_AZ_ANG) Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04	

SCP TELEMETRY

F-0365	SAM_BMTRX_0		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAM(0) Scale Factor:		
Solar array-to-body transformation matrix (0). Used by SSA processing software for SSA head #4. Computed from SAM GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0360, F-0377			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0366	SAM_BMTRX_1		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAM(1) Scale Factor:		
Solar array-to-body transformation matrix (1). Used by SSA processing software for SSA head #4. Computed from SAM GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0360, F-0377			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0367	SAM_BMTRX_2		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAM(2) Scale Factor:		
Solar array-to-body transformation matrix (2). Used by SSA processing software for SSA head #4. Computed from SAM GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0360, F-0377			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0368	SAM_BMTRX_3		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAM(3) Scale Factor:		
Solar array-to-body transformation matrix (3). Used by SSA processing software for SSA head #4. Computed from SAM GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0360, F-0377			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0369	SAM_BMTRX_4		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAM(4) Scale Factor:		
Solar array-to-body transformation matrix (4). Used by SSA processing software for SSA head #4. Computed from SAM GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0360, F-0377			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0370	SAM_BMTRX_5		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAM(5) Scale Factor:		
Solar array-to-body transformation matrix (5). Used by SSA processing software for SSA head #4. Computed from SAM GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0360, F-0377			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0371	SAM_BMTRX_6		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAM(6) Scale Factor:		
Solar array-to-body transformation matrix (6). Used by SSA processing software for SSA head #4. Computed from SAM GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0360, F-0377			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0372	SAM_BMTRX_7		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAM(7) Scale Factor:		
Solar array-to-body transformation matrix (7). Used by SSA processing software for SSA head #4. Computed from SAM GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0360, F-0377			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0373	SAM_BMTRX_8		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MIRXBFROMSAM(8) Scale Factor:		
Solar array-to-body transformation matrix (8). Used by SSA processing software for SSA head #4. Computed from SAM GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0360, F-0377			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0375	SAM_CNTRL_ST		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SAMCONTROLSTATUS Scale Factor: ns		
SAM control status word.			
Bit 0 - sam'down Bit 1 - sam'azi'ool Bit 2 - sam'ele'ool Bit 3 - sam'step'cmd'ool Bit 4 - sam'rate'cmd'ool Bit 5 - sam'gde'stuck Bit 6 - sam'ok'flag Bit 7 - sam'switch'over	Bit 8 - sam'step'cmd Bit 9 - sam'rate'cmd Bit 10 - sam'gde'sob'out Bit 11 - spare Bits 12:13 - sam'control'mode (off,auto,step,rate) Bits 14:16 - sam'control'state (nom,req'stop,stopped,wait)		
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0377	SAM_EL_ANG		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SAMELEANGLE Scale Factor: +13		
SAM elevation angle in the control frame. Note that angle range has already been applied.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less knowledge by SCP of SAM Elevation Angle.			
Alternate Telemetry: None			
Related Measurements: Derived Channel V-0083 (SAM_ELang_CF)			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04	
F-0378	SAM_EL_CMD		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SAMELCMD Scale Factor: ns		
SAM elevation command.			
Bit 0 - Axis (0 = Elevation, 1 = Azimuth) Bit 1 - Direction (0 = Reverse, 1 = Forward) Bit 2 - Mode (0 = Rate Mode, 1 = Step Mode) Bit 3 - Motion (0 = Go, 1 = Stop) Bits 4:15 - (Rate Code or Number of Steps)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0379	SAM_EL_POS		AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AAC2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns		
SAM elevation position in encoder frame. Second word read from SAM every 1/2 second.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None Related Measurements: Derived Channel V-0073 (SAM_Elpos_CF)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: ON CCL Param: 0		
F-0380	SAM_EL_TRG		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SAMELETARGET Scale Factor: +13		
SAM target elevation angle in the control frame. Note that angle range has already been applied.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0377 (SAM_EL_ANG) Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04	

SCP TELEMETRY

F-0381	SAM_NORM_X		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2GLOBALCPL FSW Name: SAMNORMAL(0) Scale Factor: +16		
SAM X component of solar array normal (b-frame) unit vector.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0365 through F-0373			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0382	SAM_NORM_Y		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2GLOBALCPL FSW Name: SAMNORMAL(1) Scale Factor: +16		
SAM Y component of solar array normal (b-frame) unit vector.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0365 through F-0373			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	

SCP TELEMETRY

F-0383	SAM_NORM_Z		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2GLOBALCPL FSW Name: SAMNORMAL(2) Scale Factor: +16					
SAM Z component of solar array normal (b-frame) unit vector.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: F-0365 through F-0373 Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05 </td></tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05				
F-0385	SAM_STATS		AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AAC2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns					
SAM Word 1, Status Data.						
Bit 0 - Side Status Bit 1 - El Moving Status Bit 2 - El Direction Status Bits 3..4 El Mode Bit 5 - El FWD Limit Status Bit 6 - El REV Limit Status Bit 7 - spare	Bit 8 - spare Bit 9 - Az Moving Status Bit 10 - Az Direction Status Bits 11..12 - Az Mode Bit 13 - Az FWD Limit Status Bit 14 - Az REV Limit Status Bit 15 - spare (always 1)					
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: Derived Channels V-2073 (SAM_GDE_EP), V-2074 (SAM_MTR_EP), V-2075 (SAM_ENC_EP)						
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0					

SCP TELEMETRY

F-0388	SAM_TIMEOUT		AACS			
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: CYCEXECPL FSW Name: SAMSIBTIMEOUT Scale Factor: ns					
Read Error received from CIU when FSW read SAM GDE position input port.						
0 = no timeout 1 = timeout Not updated in backup SCP.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: Any change in SAM position. Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"> State Names: 0 = NO_T/OUT 1 = TIME_OUT </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_T/OUT 1 = TIME_OUT
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_T/OUT 1 = TIME_OUT				
F-0390	SAP_AZ_ANG		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SAPAZTANGLE Scale Factor: +13					
SAP azimuth angle in the control frame. Note that angle range has already been applied.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Less knowledge by SCP of SAP Azimuth Angle.						
Alternate Telemetry: None Related Measurements: Derived Channel V-0084 (SAP_AZang_CF)						
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04				

SCP TELEMETRY

F-0391	SAP_AZ_CMD	AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SAPAZICMD Scale Factor: ns				
SAP Azimuth command.					
Bit 0 - Axis (0 = Elevation, 1 = Azimuth) Bit 1 - Direction (0 = Reverse, 1 = Forward) Bit 2 - Mode (0 = Rate Mode, 1 = Step Mode) Bit 3 - Motion (0 = Go, 1 = Stop) Bits 4:15 - (Rate Code or Number of Steps)					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0				
F-0392	SAP_AZ_POS	AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns				
SAP azimuth position in encoder frame. Third word read from SAP every 1/2 second.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: Derived Channel V-0074 (SAP_AZpos_CF)					
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: ON CCL Param: 0				

SCP TELEMETRY

F-0393	SAP_AZ_TRG	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SAPAZITARGET Scale Factor: +13	
SAP target azimuth angle in the control frame. Note that angle range has already been applied.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less knowledge by SCP of SAP Azimuth Target Angle.		
Alternate Telemetry: F-0390 (SAP_AZ_ANG)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04
F-0395	SAP_BMTRX_0	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2SSACPL FSW Name: MTRXBFROMSAP(0) Scale Factor:	
Solar array-to-body transformation matrix (0). Used by SSA processing software for SSA head #5. Computed from SAP GDE input words.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: N/A		
Alternate Telemetry: F-0390, F-0407		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	

SCP TELEMETRY

F-0396	SAP_BMTRX_1		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAP(1) Scale Factor:		
Solar array-to-body transformation matrix (1). Used by SSA processing software for SSA head #5. Computed from SAP GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0390, F-0407			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0397	SAP_BMTRX_2		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAP(2) Scale Factor:		
Solar array-to-body transformation matrix (2). Used by SSA processing software for SSA head #5. Computed from SAP GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0390, F-0407			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0398	SAP_BMTRX_3		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAP(3) Scale Factor:		
Solar array-to-body transformation matrix (3). Used by SSA processing software for SSA head #5. Computed from SAP GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0390, F-0407			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0399	SAP_BMTRX_4		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAP(4) Scale Factor:		
Solar array-to-body transformation matrix (4). Used by SSA processing software for SSA head #5. Computed from SAP GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0390, F-0407			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0400	SAP_BMTRX_5		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAP(5) Scale Factor:		
Solar array-to-body transformation matrix (5). Used by SSA processing software for SSA head #5. Computed from SAP GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0390, F-0407			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0401	SAP_BMTRX_6		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAP(6) Scale Factor:		
Solar array-to-body transformation matrix (6). Used by SSA processing software for SSA head #5. Computed from SAP GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0390, F-0407			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0402	SAP_BMTRX_7		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAP(7) Scale Factor:		
Solar array-to-body transformation matrix (7). Used by SSA processing software for SSA head #5. Computed from SAP GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: F-0390, F-0407			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0403	SAP_BMTRX_8		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: MTRXBFROMSAP(8) Scale Factor:		
Solar array-to-body transformation matrix (8). Used by SSA processing software for SSA head #5. Computed from SAP GDE input words.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: F-0390, F-0407			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0405	SAP_CNTRL_ST	AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SAPCONTROLSTATUS Scale Factor: ns				
SAP control status word.					
Bit 0 - sap'down Bit 1 - sap'azi'ool Bit 2 - sap'ele'ool Bit 3 - sap'step'cmd'ool Bit 4 - sap'rate'cmd'ool Bit 5 - sap'gde'stuck Bit 6 - sap'ok'flag Bit 7 - sap'switch'over Bit 8 - sap'step'cmd Bit 9 - sap'rate'cmd Bit 10 - sap'gde'sob'out Bit 11 - spare Bits 12:13 - sap'control'mode (off,auto,step,rate) Bits 14:16 - sap'control'state (nom,req'stop,stopped,wait)					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0				
F-0407	SAP_EL_ANG	AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SAPELEANGLE Scale Factor: +13				
SAP elevation angle in the control frame. Note that angle range has already been applied.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Less knowledge by SCP of SAP Elevation Angle.					
Alternate Telemetry: None Related Measurements: Derived Channel V-0085 (SAP_ELang_CF)					
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04			

SCP TELEMETRY

F-0408	SAP_EL_CMD	AACS			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SAPELECMD Scale Factor: ns				
SAP elevation command.					
Bit 0 - Axis (0 = Elevation, 1 = Azimuth) Bit 1 - Direction (0 = Reverse, 1 = Forward) Bit 2 - Mode (0 = Rate Mode, 1 = Step Mode) Bit 3 - Motion (0 = Go, 1 = Stop) Bits 4:15 - (Rate Code or Number of Steps)					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0				
F-0409	SAP_EL_POS	AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns				
SAP elevation position in encoder frame. Second word read from SAP every 1/2 second.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: Derived Channel V-0077 (SAP_Elpos_CF)					
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: ON CCL Param: 0				

SCP TELEMETRY

F-0410	SAP_EL_TRG	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SAPELETARGET Scale Factor: +13	
SAP target elevation angle in the control frame. Note that angle range has already been applied.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less knowledge by SCP of SAP Elevation Target Angle.		
Alternate Telemetry: F-0407 (SAP_EL_ANG)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04
F-0411	SAP_NORM_X	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2GLOBALCPL FSW Name: SAPNORMAL(0) Scale Factor: +16	
SAP X component of solar array normal (b-frame) unit vector.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: N/A		
Alternate Telemetry: F-0395 through F-0403		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0412	SAP_NORM_Y	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2GLOBALCPL FSW Name: SAPNORMAL(1) Scale Factor: +16	
SAP Y component of solar array normal (b-frame) unit vector.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: N/A		
Alternate Telemetry: F-0395 through F-0403		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
F-0413	SAP_NORM_Z	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2GLOBALCPL FSW Name: SAPNORMAL(2) Scale Factor: +16	
SAP Z component of solar array normal (b-frame) unit vector.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: N/A		
Alternate Telemetry: F-0395 through F-0403		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0415	SAP_STATS		AACS														
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AACSS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns																
SAP Word 1, Status Data.																	
<table> <tbody> <tr><td>Bit 0 - Side Status</td><td>Bit 8 - spare</td></tr> <tr><td>Bit 1 - El Moving Status</td><td>Bit 9 - Az Moving Status</td></tr> <tr><td>Bit 2 - El Direction Status</td><td>Bit 10 - Az Direction Status</td></tr> <tr><td>Bits 3..4 El Mode</td><td>Bits 11..12 - Az Mode</td></tr> <tr><td>Bit 5 - El FWD Limit Status</td><td>Bit 13 - Az FWD Limit Status</td></tr> <tr><td>Bit 6 - El REV Limit Status</td><td>Bit 14 - Az REV Limit Status</td></tr> <tr><td>Bit 7 - spare</td><td>Bit 15 - spare (always 1)</td></tr> </tbody> </table>				Bit 0 - Side Status	Bit 8 - spare	Bit 1 - El Moving Status	Bit 9 - Az Moving Status	Bit 2 - El Direction Status	Bit 10 - Az Direction Status	Bits 3..4 El Mode	Bits 11..12 - Az Mode	Bit 5 - El FWD Limit Status	Bit 13 - Az FWD Limit Status	Bit 6 - El REV Limit Status	Bit 14 - Az REV Limit Status	Bit 7 - spare	Bit 15 - spare (always 1)
Bit 0 - Side Status	Bit 8 - spare																
Bit 1 - El Moving Status	Bit 9 - Az Moving Status																
Bit 2 - El Direction Status	Bit 10 - Az Direction Status																
Bits 3..4 El Mode	Bits 11..12 - Az Mode																
Bit 5 - El FWD Limit Status	Bit 13 - Az FWD Limit Status																
Bit 6 - El REV Limit Status	Bit 14 - Az REV Limit Status																
Bit 7 - spare	Bit 15 - spare (always 1)																
Loss of Function: N/A																	
Recommended Action:																	
Impact of Loss of Tlm: N/A																	
Alternate Telemetry: None Related Measurements: Derived Channels V-2076 (SAP_GDE_EP), V-2077 (SAP_MTR_EP), V-2078 (SAP_ENC_EP)																	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0																
F-0418	SAP_TIMEOUT		AACS														
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: CYCEXECCPL FSW Name: SAPSIBTIMEOUT Scale Factor: ns																
Read Error received from CIU when FSW read SAP GDE position input port.																	
0 = no timeout 1 = timeout Not updated in backup SCP.																	
Loss of Function: N/A																	
Recommended Action:																	
Impact of Loss of Tlm: N/A																	
Alternate Telemetry: Any change in SAP position. Related Measurements:																	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_T/OUT 1 = TIME_OUT															

SCP TELEMETRY

F-0420	SELT_BRATE_X		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSCPL FSW Name: BODYRATE(0) Scale Factor: +14					
Self test model body rate on roll (X-Axis).						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04 </td></tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04				
F-0421	SELT_BRATE_Y		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSCPL FSW Name: BODYRATE(l) Scale Factor: +14					
Self test model body rate on pitch (Y-Axis).						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04 </td></tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04				

SCP TELEMETRY

F-0422	SELT_BRATE_Z		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSCPL FSW Name: BODYRATE(2) Scale Factor: +14		
Self test model body rate on yaw (Z-Axis).			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04	
F-0423	SELT_DYINV0		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSPRESET FSW Name: INVINERTIADYADIC(0) Scale Factor: +26		
First diagonal element of the inverted inertia matrix. This matrix is only used by SELTS.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: 1/kgm2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.98023E-08	

SCP TELEMETRY

F-0424	SELT_DYINV4		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSPRESET FSW Name: INVINERTIADYADIC(4) Scale Factor: +26					
Second diagonal element of the inverted inertia matrix. This matrix is only used by SELTS.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: 1/kgm² CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 2.98023E-08 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: 1/kgm ² CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.98023E-08
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: 1/kgm ² CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.98023E-08				
F-0425	SELT_DYINV8		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSPRESET FSW Name: INVINERTIADYADIC(8) Scale Factor: +26					
Third diagonal element of the inverted inertia matrix. This matrix is only used by SELTS.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: 1/kgm² CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 2.98023E-08 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: 1/kgm ² CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.98023E-08
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: 1/kgm ² CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.98023E-08				

SCP TELEMETRY

F-0426	SELT_MHSATS		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: SELTSPRESET FSW Name: MHSATESTSETON Scale Factor: ns		
This telemetry point informs selts of the state of the MHSA test set simulator.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0427	SELT_PTCH_ER		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSCPL FSW Name: SELTSPITCH Scale Factor: +14		
Error between FSW quaternion and SELTS quaternion attitude error.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04	

SCP TELEMETRY

F-0428	SELT_Q_A2B_1	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSCPL FSW Name: QUATBFROMA(0) Scale Factor: +16	
Self test attitude quaternion element 1 of 4. This telemetry point is only used during I&T testing.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Recreate from alternate telemetry.		
Alternate Telemetry: QBA_SEL2, QBA_SEL3, QBA_SEL4		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
F-0429	SELT_Q_A2B_2	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSCPL FSW Name: QUATBFROMA(1) Scale Factor: +16	
Self test attitude quaternion element 2 of 4. This telemetry point is only used during I&T testing.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Recreate from alternate telemetry.		
Alternate Telemetry: QBA_SEL2, QBA_SEL3, QBA_SEL4		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0430	SELT_Q_A2B_3	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSCPL FSW Name: QUATBFROMA(2) Scale Factor: +16	
Self test attitude quaternion element 3 of 4. This telemetry point is only used during I&T testing.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Recreate from alternate telemetry.		
Alternate Telemetry: QBA_SEL1, QBA_SEL2, QBA_SEL4		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
F-0431	SELT_Q_R2B_1	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSCPL FSW Name: QUATBFROMR(0) Scale Factor: +16	
Self test attitude quaternion element 1 of 4. This telemetry point is only used during I&T testing.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Recreate from alternate telemetry.		
Alternate Telemetry: QBR_SEL2, QBR_SEL3, QBR_SEL4		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0432	SELT_Q_R2B_2	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSCPL FSW Name: QUATBFROMR(1) Scale Factor: +16	
Self test attitude quaternion element 2 of 4. This telemetry point is only used during I&T testing.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Recreate from alternate telemetry.		
Alternate Telemetry: QBR_SEL1, QBR_SEL3, QBR_SEL4		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
F-0433	SELT_Q_R2B_3	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSCPL FSW Name: QUATBFROMR(2) Scale Factor: +16	
Self test attitude quaternion element 3 of 4. This telemetry point is only used during I&T testing.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Recreate from alternate telemetry.		
Alternate Telemetry: QBR_SEL1, QBR_SEL2, QBR_SEL4		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0434	SELT_Q_R2B_4		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSCPL FSW Name: QUATFROMR(3) Scale Factor: +16		
Self test attitude quaternion element 4 of 4. This telemetry point is only used during I&T testing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: quat CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0435	SELT_ROLL_ER		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSCPL FSW Name: SELTSROLL Scale Factor: +14		
Error between FSW quaternion and SELTS quaternion attitude error.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04	

SCP TELEMETRY

F-0436	SELT_YAW_ER		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: SELTSCPL FSW Name: SELTSYAW Scale Factor: +14		
Error between FSW quaternion and SELTS quaternion attitude error.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04	
F-0438	SSA_DOT_PRD		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: SSAVECDOTPRDCT Scale Factor: +16		
Dot product between SSA processing raw sun vector body-frame and gyro-propagated sun vector body-frame. Used and derived by SSA processing software.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about SSA processing.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: proj CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	

SCP TELEMETRY

F-0439	SSA_PSUN_DIR		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: PROPSUNDIR Scale Factor: +19		
Direction of change between gyro-propagated sun vector component and gyro-propagated sun vector component which was stored at time of last SSA reticle change for axis. Derived and used for SSA processing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less information about SSA processing.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.81470E-06	
F-0440	SSA_RAW_RET		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMRETICLE Scale Factor: ns		
Sun sensor raw input data word 1. Consists of a reticle-A byte and a reticle-B byte. Each byte is an unsigned 8-bit integer in Gray code. Bytes A and B are represented by individual byte channels F/N-0840 and F/N-0848. First of two words sent by the SSA.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No knowledge of SSA raw data word. Loss of SSA may degrade attitude control.			
Alternate Telemetry: F-0100, F-0101, F-0102			
Related Measurements: Derived Channels V-0061 (SSA_RETICL_A), V-0062 (SSA_RETICL_B)			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0		

SCP TELEMETRY

F-0442	SSA_RAW_DET		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TELEMNEWSSASTATUS Scale Factor: ns		
Sun sensor raw input data word 2. These quantities are represented by channels F/N-0860 thru F/N-0873. Second of two words sent by the SSA.			
Bits 0..7 - 0's Bit 8 - Ground Detector Select Bit 9 - Data Quality Bits 10..12- Ground Selected Detector ID Bits 13..15 - Autonomous Selected Detector ID			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No knowledge of SSA raw data word. Loss of SSA may degrade attitude control.			
Alternate Telemetry: F-0100, F-0101, F-0102			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-0444	SSA_STATUS		AACS
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: AACCS2SSACPL FSW Name: SSASTATUS Scale Factor: ns		
Derive SSA status enumerated variable; used and derived by SSA processing software. Software derived SSA states:			
0 - Sun not seen 1 - Status word error 2 - Sun angle error 3 - Sun not in good FOV 4 - Sun seen new start 5 - Sun seen and good 6 - Sun seen and good (no change) 7 - Data not used.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No knowledge of SSA status in software. Sun-sensor data processing will be degraded.			
Alternate Telemetry: F-0440			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = sun_NOT_SEEN 1 = STATword_ERR 2 = sunANGL_ERR 3 = in_BAD_FOV 4 = seenNEWSTART 5 = sunSEE_GOOD 6 = OK_STABLized 7 = data_NOTused	

SCP TELEMETRY

F-0446	SSA_SUNHDF_X		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: RAWSUNHEADFRAME(0) Scale Factor: +16					
X component of SSA derived head frame sun vector.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Less info about SSA processing.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05				
F-0447	SSA_SUNHDF_Y		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AAC2SSACPL FSW Name: RAWSUNHEADFRAME(1) Scale Factor: +16					
Y component of SSA derived head frame sun vector.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Less information about SSA processing.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05				

SCP TELEMETRY

F-0448	STIME		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: STIME Scale Factor: +4		
Time between star transits.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.25000E-01	
F-0450	STRX_CMRESET		AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: CUMSISRESETCNT Scale Factor: ns		
Cummulative SIS reset count for telemetry.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0451	STRX_HIRATIO		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: HIGHESTRATIO Scale Factor: +13		
Highest ratio of number of times MAXBIN was encountered to NEXBIN (highest ratio of MAXBIN to NEXBIN). If ≥ 1.3 CAIS has converged and MAXBIN is used to compute phase angle.			
Loss of Function: Cannot initialize attitude and establish inertial reference.			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: ratio CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.44141E-04	
F-0452	STRX_IDTRNNO		AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: NUMIDENTTRANS Scale Factor: ns		
Number of transits identified by STAREX. If \geq and gyro biases converged, STAREX declares inertial reference established.			
Loss of Function: Entry into safe mode, starex'state<>SIS.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify number of star transits. Information not available for Starex processing.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0454	STRX_MAXBIN		AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: MAXBIN Scale Factor: ns		
Bin encountered most frequently during attitude initialization (CAIS). Corresponds to roughly 0.5 degree phase angle about spin axis.			
Loss of Function: Starex_state CAIS.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Star processing will be degraded.			
Alternate Telemetry: N/A			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0455	STRX_MULSTAR		AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: CONSMULTCAND Scale Factor: ns		
Consecutive transits for which STAREX identifies 2 stars. Causes STAREX to reduce dot product multiplier.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Star processing needed for attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0456	STRX_NEXTBIN		AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: NEXBIN Scale Factor: ns		
2nd most often encountered bin during attitude initialization (CAIS). Corresponds to roughly 0.5 degree phase angle about spin axis.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Lack of AACS processing info. Star processing needed for attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0457	STRX_PULSECT		AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: PULSESPLITCOUNT Scale Factor: ns		
Number of consecutive pulsing slit conditions (consecutive transits occur on same slit). When count reaches 5, CSA fan containing slit is turned off.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0458	STRX_SLIT_ID		AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: SLITID Scale Factor: ns					
Slit number of last valid CSA data.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-0459	STRX_STAR_ID		AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: STARIDNO Scale Factor: ns					
Last identified Star Index per Star Catalog used.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-0460	STRX_STATE		AACS			
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: STAREXCPL FSW Name: STAREXSTATE Scale Factor: ns					
Starex State						
0 = SIS - Star Identification Software 1 = CAIS - Celestial Attitude Initialization Software 2 = CAIS Timetables - Creates Timetables for CAIS 4 = 1Hz Processing Inhibited						
Loss of Function: Entry into safe mode.						
Recommended Action:						
Impact of Loss of Tlm: No knowledge of Starex state. Degraded star data impact attitude control.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = SIS 1 = CAIS 2 = CAISTBL 3 = PROCNHIB </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIS 1 = CAIS 2 = CAISTBL 3 = PROCNHIB
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIS 1 = CAIS 2 = CAISTBL 3 = PROCNHIB				
F-0461	STRX_S_RESET		AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: SISRESETCOUNT Scale Factor: ns					
Number of times Star Identification Software has been reset. CAIS is performed when count reaches 3.						
Loss of Function: Inertial reference lost.						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-0462	STRX_UNIDSTR		AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: CONSUNIDTRANS Scale Factor: ns					
Consecutive transits misidentified by STAREX. When >= star catalog lost limit, STAREX declares inertial reference lost.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Less understanding of Starex processing. Starex processing would be degraded.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-0463	STRX_VALTRNS		AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: NUMVALIDTRANS Scale Factor: ns					
Number of valid star transits during CAIS. After 10 transits, HIGHEST_RATIO is computed. After 16 transits, the success of CAIS is determined.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-0464	STRX_WORD		AACS																
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: STAREXSTATUS Scale Factor: ns																		
This word contains 16 bits describing the status of various STAREX parameters.																			
<table> <tbody> <tr><td>Bit 0 - Target Converged</td><td>Bit 8 - IRE Requested</td></tr> <tr><td>Bit 1 - Starex Enable</td><td>Bit 9 - Init Steady State Biases</td></tr> <tr><td>Bit 2 - Inertial Reference</td><td>Bit 10 - Init Ident Star Counters</td></tr> <tr><td>Bit 3 - Gyro Bias Converged</td><td>Bit 11 - Star ID S/W Interrupted</td></tr> <tr><td>Bit 4 - Star ID S/W Reset Request</td><td>Bit 12 - spare</td></tr> <tr><td>Bit 5 - Attitude Init Request</td><td>Bit 13 - spare</td></tr> <tr><td>Bit 6 - One Star Identified</td><td>Bit 14 - spare</td></tr> <tr><td>Bit 7 - Lost Limit Exceeded</td><td>Bit 15 - spare</td></tr> </tbody> </table>				Bit 0 - Target Converged	Bit 8 - IRE Requested	Bit 1 - Starex Enable	Bit 9 - Init Steady State Biases	Bit 2 - Inertial Reference	Bit 10 - Init Ident Star Counters	Bit 3 - Gyro Bias Converged	Bit 11 - Star ID S/W Interrupted	Bit 4 - Star ID S/W Reset Request	Bit 12 - spare	Bit 5 - Attitude Init Request	Bit 13 - spare	Bit 6 - One Star Identified	Bit 14 - spare	Bit 7 - Lost Limit Exceeded	Bit 15 - spare
Bit 0 - Target Converged	Bit 8 - IRE Requested																		
Bit 1 - Starex Enable	Bit 9 - Init Steady State Biases																		
Bit 2 - Inertial Reference	Bit 10 - Init Ident Star Counters																		
Bit 3 - Gyro Bias Converged	Bit 11 - Star ID S/W Interrupted																		
Bit 4 - Star ID S/W Reset Request	Bit 12 - spare																		
Bit 5 - Attitude Init Request	Bit 13 - spare																		
Bit 6 - One Star Identified	Bit 14 - spare																		
Bit 7 - Lost Limit Exceeded	Bit 15 - spare																		
Loss of Function: N/A																			
Recommended Action:																			
Impact of Loss of Tlm: Lack of info about Starex processing capability. Loss of Starex status info.																			
Alternate Telemetry: N/A																			
Related Measurements:																			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0																		
F-0470	SUNVEC_RAW_X		AACS																
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: RAWSUNVECTOR(0) Scale Factor: +16																		
X raw sun in body frame. Sun-sensor derived raw, unfiltered, unpropagated unit sun vector (body frame).																			
Loss of Function: N/A																			
Recommended Action:																			
Impact of Loss of Tlm: Cannot verify AACCS processing. Degraded attitude control.																			
Alternate Telemetry: None																			
Related Measurements:																			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05																	

SCP TELEMETRY

F-0471	SUNVEC_RAW_Y	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: RAWSUNVECTOR(1) Scale Factor: +16	
Y raw sun in body frame. Sun-sensor derived raw, unfiltered, unpropagated unit sun vector (body frame).		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.		
Alternate Telemetry: Propagated sun or filtered sun vectors.		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05
F-0472	SUNVEC_RAW_Z	AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACSI0CPL FSW Name: RAWSUNVECTOR(2) Scale Factor: +16	
Z raw sun in body frame. Sun-sensor derived raw, unfiltered, unpropagated unit sun vector (body frame).		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify info used in AACS processing. Degraded attitude control.		
Alternate Telemetry: Propagated sun or filtered sun vectors.		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05

SCP TELEMETRY

F-0475	SUN_CLOCK		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: ARTCNTVARSCPL FSW Name: SUNCLOCKANGLE Scale Factor: +16		
Clock angles updated at orbital speed.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No knowledge of sun clock angles.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0476	SUN_SUBMODE		AACS
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: AACCS2SUNCNTRLCPL FSW Name: SUNCONTROLSUBMODE Scale Factor: ns		
Sun control submode, valid during Sun-Com_Pwr, Sun-Stuck_Gimbal, and Sun-Star-Init control states. Sun control submodes are:			
0 - Sun Search 1 - Sun Anti Null 2 - Sun Avoidance 3 - Sun Acquire 4 - Sun Cone			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about sun control processing.			
Alternate Telemetry: F-0290 (POS_ERR_X), F-0291 (POS_ERR_Y), F-0292 (POS_ERR_Z), F-0330 (RTE_CMD_X), F-0331 (RTE_CMD_Y), F-0332			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SEARCH 1 = ANTINULL 2 = AVOIDNCE 3 = ACQUIRE 4 = SUN_CONE	

SCP TELEMETRY

F-0477	SUN_SUBM_SM		AACS
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: SMAACS2CPL FSW Name: SUNCONTROLSUBMODE Scale Factor: ns		
Safe Mode Sun control submode. Submodes are: 0 - Sun Search 1 - Sun Anti Null 2 - Sun Acquire 3 - Sun Cone			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SEARCH 1 = ANTINULL 2 = ACQUIRE 3 = SUN_CONE	
F-0480	SYST_MOM_X		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2GLOBALCPL FSW Name: SYSMOM Scale Factor: +9		
X component of the spacecraft system momentum, computed from filtered body rates and reaction wheel speeds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Will not know parameters used in AACS. Data used by PAS. Degraded attitude control.			
Alternate Telemetry: RWA wheel speeds and filtered body rates. Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Nms CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.90625E-03	

SCP TELEMETRY

F-0481	SYST_MOM_Y		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2GLOBALCPL FSW Name: SYSMOM Scale Factor: +9		
Y component of the spacecraft system momentum, computed from filtered body rates and reaction wheel speeds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Will not know parameters used in AACS. Data used by PAS. Degraded attitude control.			
Alternate Telemetry: RWA wheel speeds and filtered body rates.			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Nms CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.90625E-03	
F-0482	SYST_MOM_Z		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: AACCS2GLOBALCPL FSW Name: SYSMOM Scale Factor: +9		
Z component of the spacecraft system momentum, computed from filtered body rates and reaction wheel speeds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Will not know parameters used in AACS. Data used by PAS. Degraded attitude control.			
Alternate Telemetry: RWA wheel speeds and filtered body rates.			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: Nms CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.90625E-03	

SCP TELEMETRY

F-0490	STRX_ATGAINX		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: SATTGAIN(0) Scale Factor: +15		
Starex attitude gain X			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of STAREX troubleshooting data.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 6.10352E-05	
F-0491	STRX_ATGAINY		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: SATTGAIN(1) Scale Factor: +15		
Starex attitude gain Y			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of STAREX troubleshooting data.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 6.10352E-05	

SCP TELEMETRY

F-0492	STRX_ATGAINZ		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: SATTGAIN(2) Scale Factor: +15		
Starex attitude gain Z			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of STAREX troubleshooting data.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 6.10352E-05	
F-0493	S_ATT_PROD_0		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: FSW Name: SATTPROD(0) Scale Factor: +37		
Stored attitude product for STAREX.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.45519E-11	

SCP TELEMETRY

F-0495	STRX_BSGAINX		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: SBIASGAIN(0) Scale Factor: +24		
Starex bias gain X			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of STAREX troubleshooting data.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.19209E-07	
F-0496	STRX_BSGAINY		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: SBIASGAIN(1) Scale Factor: +24		
Starex bias gain Y			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of STAREX troubleshooting data.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.19209E-07	

SCP TELEMETRY

F-0497	STRX_BSGAINZ		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: SBIASGAIN(2) Scale Factor: +24		
Starex bias gain Z			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of STAREX troubleshooting data.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.19209E-07	
F-0498	S_BIAS_PROD0		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: FSW Name: SBIASPROD(0) Scale Factor: +47		
Stored bias product for STAREX.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: r/s CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.42109E-14	

SCP TELEMETRY

F-0514	THR_SM_01_02	AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: SMAACCS2CPL FSW Name: TLMACCUM(1) Scale Factor: ns				
Thrusters 01 and 02 safe mode accumulators.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Inability to reconstruct attitude control during safe mode.					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-0515	THR_SM_03_04	AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: SMAACCS2CPL FSW Name: TLMACCUM(3) Scale Factor: ns				
Thrusters 03 and 04 safe mode accumulators.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Inability to reconstruct attitude control during safe mode.					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-0516	THR_SM_05_06	AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: SMAACS2CPL FSW Name: TLMACCUM(5) Scale Factor: ns				
Thrusters 05 and 06 safe mode accumulators.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Inability to reconstruct attitude control during safe mode.					
Alternate Telemetry: Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-0517	THR_SM_07_08	AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: SMAACS2CPL FSW Name: TLMACCUM(7) Scale Factor: ns				
Thrusters 07 and 08 safe mode accumulators.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Inability to reconstruct attitude control during safe mode.					
Alternate Telemetry: Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-0518	THR_SM_09_11	AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: SMAACCS2CPL FSW Name: TLMACCUM(9) Scale Factor: ns				
Thrusters 09 and 11 safe mode accumulators.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Inability to reconstruct attitude control during safe mode.					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-0519	THR_SM_12_10	AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: SMAACCS2CPL FSW Name: TLMACCUM(11) Scale Factor: ns				
Thrusters 12 and 10 safe mode accumulators.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Inability to reconstruct attitude control during safe mode.					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-0521	THrOnT_01		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRTHRTIMCPL FSW Name: TOTALTHRTIME(1) Scale Factor: +7		
Total thruster fire time in seconds for thruster #1.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Will impact thruster management/AACS. Used in PAS. Loss of usage time.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02	
F-0522	THrOnT_02		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRTHRTIMCPL FSW Name: TOTALTHRTIME(2) Scale Factor: +7		
Total thruster fire time in seconds for thruster #2.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Will impact thruster management/AACS. Used in PAS. Loss of usage time.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02	

SCP TELEMETRY

F-0523	THrOnT_03		AACS				
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRTHRTIMCPL FSW Name: TOTALTHRTIME(3) Scale Factor: +7						
Total thruster fire time in seconds for thruster #3.							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: Will impact thruster management/AACS. Used in PAS. Loss of usage time.							
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0</td><td>Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02</td><td></td></tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02	
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02					
F-0524	THrOnT_04		AACS				
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRTHRTIMCPL FSW Name: TOTALTHRTIME(4) Scale Factor: +7						
Total thruster fire time in seconds for thruster #4.							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: Will impact thruster management/AACS. Used in PAS. Loss of usage time.							
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0</td><td>Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02</td><td></td></tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02	
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02					

SCP TELEMETRY

F-0525	THrOnT_05		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRTHRTIMCPL FSW Name: TOTALTHRTIME(5) Scale Factor: +7					
Total thruster fire time in seconds for thruster #5.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Will impact thruster management/AACS. Used in PAS. Loss of usage time.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02				
F-0526	THrOnT_06		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRTHRTIMCPL FSW Name: TOTALTHRTIME(6) Scale Factor: +7					
Total thruster fire time in seconds for thruster #6.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Will impact thruster management/AACS. Used in PAS. Loss of usage time.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02				

SCP TELEMETRY

F-0527	THrOnT_07		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRTHRTIMCPL FSW Name: TOTALTHRTIME(7) Scale Factor: +7					
Total thruster fire time in seconds for thruster #7.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Will impact thruster management/AACS. Used in PAS. Loss of usage time.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02				
F-0528	THrOnT_08		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRTHRTIMCPL FSW Name: TOTALTHRTIME(8) Scale Factor: +7					
Total thruster fire time in seconds for thruster #8.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Will impact thruster management/AACS. Used in PAS. Loss of usage time.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02				

SCP TELEMETRY

F-0529	THrOnT_09		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRTHRTIMCPL FSW Name: TOTALTHRTIME(9) Scale Factor: +7					
Total thruster fire time in seconds for thruster #9.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Will impact thruster management/AACS. Used in PAS. Loss of usage time.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02				
F-0530	THrOnT_10		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRTHRTIMCPL FSW Name: TOTALTHRTIME(10) Scale Factor: +7					
Total thruster fire time in seconds for thruster #10.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Will impact thruster management/AACS. Used in PAS. Loss of usage time.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02 </td> </tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02				

SCP TELEMETRY

F-0531	THrOnT_11		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRTHRTIMCPL FSW Name: TOTALTHRTIME(11) Scale Factor: +7		
Total thruster fire time in seconds for thruster #11.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Will impact thruster management/AACS. Used in PAS. Loss of usage time.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02	
F-0532	THrOnT_12		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: MANUVRTHRTIMCPL FSW Name: TOTALTHRTIME(12) Scale Factor: +7		
Total thruster fire time in seconds for thruster #12.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Will impact thruster management/AACS. Used in PAS. Loss of usage time.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: sec CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.56250E-02	

SCP TELEMETRY

F-0535	THrOnT_ME		AACS
Data Type: FLOAT # Bits: 32 Start Bit: 0	Compool: MANUVRTHRTIMCPL FSW Name: TOTALTHRTIME(0) Scale Factor: ns		
Total Main Engine fire time in seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Will impact maneuver reconstruction.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF Input Conversion: MIL32 CCL Process: OFF CCL Param: 0		
F-0541	IMU_DRIFT_1		AACS
Data Type: FLOAT # Bits: 32 Start Bit: 0	Compool: SELTSCPL FSW Name: IMUDRIFT Scale Factor: ns		
The gyro 1 drift rate used to subtract off earth rate during sels testing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to verify correct IMU calibration.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF Input Conversion: MIL32 CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0542	IMU_DRIFT_2		AACS
Data Type: FLOAT # Bits: 32 Start Bit: 0	Compool: SELTSCPL FSW Name: IMUDRIFT Scale Factor: ns		
The gyro 2 drift rate used to subtract off earth rate during selts testing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to verify correct IMU calibration.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF Input Conversion: MIL32 CCL Process: OFF CCL Param: 0		
F-0543	IMU_DRIFT_3		AACS
Data Type: FLOAT # Bits: 32 Start Bit: 0	Compool: SELTSCPL FSW Name: IMUDRIFT Scale Factor: ns		
The gyro 3 drift rate used to subtract off earth rate during selts testing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to verify correct IMU calibration.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF Input Conversion: MIL32 CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0544	IMU_DRIFT_4		AACS
Data Type: FLOAT # Bits: 32 Start Bit: 0	Compool: SELTSCPL FSW Name: IMUDRIFT Scale Factor: ns		
The gyro 4 drift rate used to subtract off earth rate during selts testing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to verify correct IMU calibration.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF Input Conversion: MIL32 CCL Process: OFF CCL Param: 0		
F-0545	IMU_DRIFT_5		AACS
Data Type: FLOAT # Bits: 32 Start Bit: 0	Compool: SELTSCPL FSW Name: IMUDRIFT Scale Factor: ns		
The gyro 5 drift rate used to subtract off earth rate during selts testing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to verify correct IMU calibration.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF Input Conversion: MIL32 CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0546	IMU_DRIFT_6		AACS
Data Type: FLOAT # Bits: 32 Start Bit: 0	Compool: SELTSCPL FSW Name: IMUDRIFT Scale Factor: ns		
The gyro 6 drift rate used to subtract off earth rate during selts testing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to verify correct IMU calibration.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF Input Conversion: MIL32 CCL Process: OFF CCL Param: 0		
F-0550	STRX_CAISANG		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: ANGLEBPFROML Scale Factor: +14		
CAIS solution for angle about spin axis to rotate L frame to B' frame.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rads CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.22070E-04	

SCP TELEMETRY

F-0551	STRX_CORTEST		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: CORRTEST Scale Factor: +16		
Sum of 3 squared attitude corrections divided by their variance; ID criterion.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: none CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0552	STRX_DOTLOS		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: STARDOTLOS Scale Factor: +16		
Dot product of catalog star vector with slit Line Of Sight, star ID criterion.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: none CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	

SCP TELEMETRY

F-0553	STRX_DOTPROD		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: STARDOTPROD Scale Factor: +21		
Dot product of star vector and slit-plane normal; also, Kalman Filter measurement and residual.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: none CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.53674E-07	
F-0554	STRX_MB_CNTS		AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: MAXBINCOUNTS Scale Factor: ns		
Number of transits for most-likely CAIS-angle candidate.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0555	STRX_MVEC_X		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: MEASVEC(0) Scale Factor: +16		
Starex Kalman Filter (KF) sensitivity vector; nearly equal to slit direction.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0556	STRX_MVEC_Y		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: MEASVEC(1) Scale Factor: +16		
Starex Kalman Filter (KF) sensitivity vector; nearly equal to slit direction.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	

SCP TELEMETRY

F-0557	STRX_MVEC_Z		AACS
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: MEASVEC(2) Scale Factor: +16		
Starex Kalman Filter (KF) sensitivity vector; nearly equal to slit direction.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: vect CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 3.05176E-05	
F-0558	STRX_NB_CNTS		AACS
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: NEXBINCOUNTS Scale Factor: ns		
Number of transits for next-most-likely CAIS-angle candidate.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0559	STRX_NOIZVAR		AACS			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: MEASNOISEVAR Scale Factor: +28					
Measurement variance; squared Star'Dot'Prod compared to this for star ID.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: POLY EU Units: rad^2 CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> Coefficients: n0 = 0.00000E+00 n1 = 7.45058E-09 </td></tr> </table>				Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rad^2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.45058E-09
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rad^2 CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.45058E-09				
F-0560	STRX_SC_SLIT		AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: SUCCESS\$SLIT Scale Factor: ns					
Slit number (0...5) for last identified star.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-0561	STRX_TRANSTS		AACS			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: STAREXCPL FSW Name: TRANSITSPERSEC Scale Factor: ns					
Number of nonzero words in the 1 Hz, CSA-word buffer. Should be 0 or 1; affected by solar flares, planets, and moons.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-0600	BU_MODE_ENA		AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0005/00	Compool: AACCS2GLOBALPRESET FSW Name: ATTENABS(0) Scale Factor: ns					
Back-up modes enable status. Enable entry into CSA Back-up and MHSA Back-up modes.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: AACCS status will not be known.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = DISABLED 1 = ENABLED </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED				

SCP TELEMETRY

F-0601	SUN_MON_EPH		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0005/01	Compool: AACCS2GLOBALPRESET FSW Name: ATTENABS(1) Scale Factor: ns		
Sun Monitor Ephemeris enable status. Enable autonomous entry into Sun-Com-Power control state if sun differs from ephemeris in control state which utilize Ephemeris Sun Monitor.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: AACCS status will not be known.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-0602	SUN_MON_THR		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0005/02	Compool: AACCS2GLOBALPRESET FSW Name: ATTENABS(2) Scale Factor: ns		
Sun Monitor Threshold enable status. Enable autonomous entry into Sun-Com-Power control state if sun is outside of thresholds in control states which utilize Thresholds Sun Monitor.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: AACCS status will not be known.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	

SCP TELEMETRY

F-0603	SUN_AVOID		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0005/03	Compool: AACSB2GLOBALPRESET FSW Name: ATTENABS(3) Scale Factor: ns		
Sun Avoidance Logic enable status.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: AACSB status will not be known.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-0604	RWA_PID_INT		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0005/04	Compool: AACSB2GLOBALPRESET FSW Name: ATTENABS(4) Scale Factor: ns		
RWA PID Integrals enable status. PID integrals are zeroed and not updated when bit is false.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: AACSB status will not be known.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	

SCP TELEMETRY

F-0605	ANS_AUTO_ENA		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0005/05	Compool: AAC2GLOBALPRESET FSW Name: ATTENABS(5) Scale Factor: ns		
ANS Auto Switch enable status. Enable autonomous transition from Sun-Star Init into ANS.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: AACS status will not be known.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-0606	SEARCH_AUTO		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0005/06	Compool: AAC2GLOBALPRESET FSW Name: ATTENABS(6) Scale Factor: ns		
Search Auto Switch enable status. Enable autonomous transition from Sun-Star Init into Search.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: AACS status will not be known.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	

SCP TELEMETRY

F-0607	MAP_EPHEM		AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0005/07	Compool: AACCS2GLOBALPRESET FSW Name: ATTENABS(7) Scale Factor: ns					
Mapping Ephemeris enable status. Turn-on mapping ephemeris software.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: AACCS status will not be known.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = DISABLED 1 = ENABLED </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED				
F-0608	CHK_NEW_EPH		AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0005/08	Compool: AACCS2GLOBALPRESET FSW Name: ATTENABS(8) Scale Factor: ns					
Check New Ephemeris Loads enable status. Warning placed in CV queue if new ephemeris load is significantly different from active ephemeris.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: AACCS status will not be known.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = DISABLED 1 = ENABLED </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED				

SCP TELEMETRY

F-0609	MHSA_DER_ATT	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0005/09	Compool: AACCS2GLOBALPRESET FSW Name: ATTENABS(9) Scale Factor: ns				
Use MHSA Derived Attitude enable status. Use MHSA derived Inretial-to-Body attitude quaternion for HGA pointing, even when STAREX inertial reference is established.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: AACCS status will not be known.					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = DISABLED 1 = ENABLED </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED			
F-0610	CSAbu_HAS_BU	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0005/10	Compool: AACCS2GLOBALPRESET FSW Name: ATTENABS(10) Scale Factor: ns				
CSA Back-up Has Back-up enable status. Enable autonomous transition from CSA Back-up into Search state, should STAREX inertial reference be lost.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: AACCS status will not be known.					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = DISABLED 1 = ENABLED </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED			

SCP TELEMETRY

F-0611	SSA_MODE_SWI		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0005/11	Compool: AACCS2GLOBALPRESET FSW Name: ATTENABS(11) Scale Factor: ns		
SSA Mode Switch enable status. Enable toggling between SSA auto and computer modes when sun vector needs initialized.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: AACCS status will not be known.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-0612	ATT_ENAB_12		AACS
Data Type: UNSIGNED # Bits: 1 Start Bit: F-0005/12	Compool: AACCS2GLOBALPRESET FSW Name: ATTENABS(12) Scale Factor: ns		
spare bit			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: AACCS status will not be known.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0613	ATT_ENAB_13		AACS
Data Type: UNSIGNED # Bits: 1 Start Bit: F-0005/13	Compool: AAC2GLOBALPRESET FSW Name: ATTENABS(13) Scale Factor: ns		
spare bit			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: AACS status will not be known.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0614	ATT_ENAB_14		AACS
Data Type: UNSIGNED # Bits: 1 Start Bit: F-0005/14	Compool: AAC2GLOBALPRESET FSW Name: ATTENABS(14) Scale Factor: ns		
spare bit			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: AACS status will not be known.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0615	ATT_ENAB_15		AACS
Data Type: UNSIGNED # Bits: 1 Start Bit: F-0005/15	Compool: AACST2GLOBALPRESET FSW Name: ATTENABS(15) Scale Factor: ns		
spare bit			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: AACS status will not be known.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0620	HGA_STATS_00		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0200/00	Compool: AACST2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns		
Bit 0 of Raw HGA GDE status telemetry (HGA_STATS F/N-0200). HGA side status. Logic 0 = Side A On Logic 1 = Side B On			
Loss of Function: Gimbal loss degrades antenna pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify HGA status. Gimbal loss degrades antenna pointing.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B	

SCP TELEMETRY

F-0621	HGA_STATS_01	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0200/01	Compool: AACCS2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns				
Bit 1 of Raw HGA GDE status telemetry (HGA_STATS F/N-0200). Elevation motor status.					
Logic 0 = Not Moving Logic 1 = Moving					
Loss of Function: Gimbal loss degrades antenna pointing.					
Recommended Action:					
Impact of Loss of Tlm: Cannot verify HGA status. Gimbal loss degrades antenna pointing.					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = NOT_MOVING 1 = MOVING </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_MOVING 1 = MOVING
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_MOVING 1 = MOVING			
F-0622	HGA_STATS_02	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0200/02	Compool: AACCS2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns				
Bit 2 of Raw HGA GDE status telemetry (HGA_STATS F/N-0200). Elevation motor direction.					
Logic 0 = Forward Logic 1 = Reverse					
Loss of Function: Gimbal loss degrades antenna pointing.					
Recommended Action:					
Impact of Loss of Tlm: Cannot verify HGA status. Gimbal loss degrades antenna pointing.					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = FORWARD 1 = REVERSE </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FORWARD 1 = REVERSE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FORWARD 1 = REVERSE			

SCP TELEMETRY

F-0623	HGA_STATS_03	AACS			
Data Type: STATUS # Bits: 2 Start Bit: F-0200/03	Compool: AACCS2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns				
Bits 3 and 4 of Raw HGA GDE status telemetry (HGA_STATS F/N-0200). Elevation motor mode.					
0 - Stop Command in Effect 1 - Rate Mode 2 - Step Mode 3 - Invalid					
Loss of Function: Gimbal loss degrades antenna pointing.					
Recommended Action:					
Impact of Loss of Tlm: Cannot verify HGA status. Gimbal loss degrades antenna pointing.					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = STOP 1 = RATE_MODE 2 = STEP_MODE </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = STOP 1 = RATE_MODE 2 = STEP_MODE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = STOP 1 = RATE_MODE 2 = STEP_MODE			
F-0625	HGA_STATS_05	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0200/05	Compool: AACCS2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns				
Bit 5 of Raw HGA GDE status telemetry (HGA_STATS F/N-0200). Elevation motor forward limit status.					
Logic 0 = Not at Forward Limit Logic 1 = Stopped at Forward Limit					
Loss of Function: Gimbal loss degrades antenna pointing.					
Recommended Action:					
Impact of Loss of Tlm: Cannot verify HGA status. Gimbal loss degrades antenna pointing.					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = NOT_AT_LIMIT 1 = AT_FWD_LIMIT </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_AT_LIMIT 1 = AT_FWD_LIMIT
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_AT_LIMIT 1 = AT_FWD_LIMIT			

SCP TELEMETRY

F-0626	HGA_STATS_06		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0200/06	Compool: AACCS2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns		
Bit 6 of Raw HGA GDE status telemetry (HGA_STATS F/N-0200). Elevation motor reverse limit status.			
Logic 0 = Not at Reverse Limit Logic 1 = Stopped at Reverse Limit			
Loss of Function: Gimbal loss degrades antenna pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify HGA status. Gimbal loss degrades antenna pointing.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_AT_LIMIT 1 = AT_REV_LIMIT	
F-0627	HGA_STATS_07		AACS
Data Type: UNSIGNED # Bits: 2 Start Bit: F-0200/07	Compool: AACCS2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns		
Bits 7 and 8 of Raw HGA GDE status telemetry (HGA_STATS F/N-0200). Spare 2 bits.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0629	HGA_STATS_09		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0200/09	Compool: AACCS2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns		
Bit 9 of Raw HGA GDE status telemetry (HGA_STATS F/N-0200). Azimuth motor status.			
Logic 0 = Not Moving Logic 1 = Moving			
Loss of Function: Gimbal loss degrades antenna pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify HGA status. Gimbal loss degrades antenna pointing.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_MOVING 1 = MOVING	
F-0630	HGA_STATS_10		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0200/10	Compool: AACCS2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns		
Bit 10 of Raw HGA GDE status telemetry (HGA_STATS F/N-0200). Azimuth motor direction.			
Logic 0 = Forward Logic 1 = Reverse			
Loss of Function: Gimbal loss degrades antenna pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify HGA status. Gimbal loss degrades antenna pointing.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FORWARD 1 = REVERSE	

SCP TELEMETRY

F-0631	HGA_STATS_11		AACS
Data Type: STATUS # Bits: 2 Start Bit: F-0200/11	Compool: AACCS2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns		
Bits 11 and 12 of Raw HGA GDE status telemetry (HGA_STATS F/N-0200). Azimuth motor mode.			
0 - Stop Command in Effect 1 - Rate Mode 2 - Step Mode 3 - Invalid			
Loss of Function: Gimbal loss degrades antenna pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify HGA status. Gimbal loss degrades antenna pointing.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = STOP 1 = RATE_MODE 2 = STEP_MODE	
F-0633	HGA_STATS_13		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0200/13	Compool: AACCS2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns		
Bit 13 of Raw HGA GDE status telemetry (HGA_STATS F/N-0200). Azimuth motor forward limit status.			
Logic 0 = Not at Forward Limit Logic 1 = Stopped at Forward Limit			
Loss of Function: Gimbal loss degrades antenna pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify HGA status. Gimbal loss degrades antenna pointing.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_AT_LIMIT 1 = AT_FWD_LIMIT	

SCP TELEMETRY

F-0634	HGA_STATS_14		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0200/14	Compool: AACCS2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns		
Bit 14 of Raw HGA GDE status telemetry (HGA_STATS F/N-0200). Azimuth motor reverse limit status.			
Logic 0 = Not at Reverse Limit Logic 1 = Stopped at Reverse Limit			
Loss of Function: Gimbal loss degrades antenna pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify HGA status. Gimbal loss degrades antenna pointing.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_AT_LIMIT 1 = AT_REV_LIMIT	
F-0635	HGA_STATS_15		AACS
Data Type: UNSIGNED # Bits: 1 Start Bit: F-0200/15	Compool: AACCS2GLOBALCPL FSW Name: HGARAWDATA Scale Factor: ns		
Bit 15 of Raw HGA GDE status telemetry (HGA_STATS F/N-0200). Spare bit always set to 1.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0640	IMU_DCsupSEL	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0210/00	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(0,0) Scale Factor: ns				
Bit 0 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). IMU DC supply status.					
Logic 0 = Primary Logic 1 = Backup					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = PRIMARY 1 = BACK_UP </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = PRIMARY 1 = BACK_UP
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = PRIMARY 1 = BACK_UP			
F-0641	IMU_ACsupSEL	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0210/01	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(0,1) Scale Factor: ns				
Bit 1 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). IMU AC supply status.					
Logic 0 = Primary Logic 1 = Backup					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.					
Alternate Telemetry: N/A Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = PRIMARY 1 = BACK_UP </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = PRIMARY 1 = BACK_UP
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = PRIMARY 1 = BACK_UP			

SCP TELEMETRY

F-0642	CS_TRI_B_SEL		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0210/02	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(0,2) Scale Factor: ns		
Bit 2 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). CSA Fan B status.			
Logic 0 = On Logic 1 = Off			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF	
F-0643	CS_TRI_A_SEL		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0210/03	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(0,3) Scale Factor: ns		
Bit 3 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). CSA Fan A status.			
Logic 0 = On Logic 1 = Off			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ON 1 = OFF	

SCP TELEMETRY

F-0644	IMU_TEST_SEL		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0210/04	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(0,4) Scale Factor: ns		
Bit 4 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). CSA test mode status.			
Logic 0 = Off Logic 1 = On			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON	
F-0645	IMU_RATE_SEL		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0210/05	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(0,5) Scale Factor: ns		
Bit 5 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). IMU rate mode status.			
Logic 0 = Low Rate Logic 1 = High Rate			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = LO_RATE 1 = HI_RATE	

SCP TELEMETRY

F-0646	IMU_STW1_06		AACS			
Data Type: UNSIGNED # Bits: 1 Start Bit: F-0210/06	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(0,6) Scale Factor: ns					
Bit 6 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). Spare bit.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> RESET SET </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: CCL Process: OFF CCL Param: 0	RESET SET
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: CCL Process: OFF CCL Param: 0	RESET SET				
F-0647	IMU_STW1_07		AACS			
Data Type: UNSIGNED # Bits: 1 Start Bit: F-0210/07	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(0,7) Scale Factor: ns					
Bit 7 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). Spare bit.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> RESET SET </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: CCL Process: OFF CCL Param: 0	RESET SET
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: CCL Process: OFF CCL Param: 0	RESET SET				

SCP TELEMETRY

F-0648	IMU_FORMAT		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0210/08	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(0,8) Scale Factor: ns		
Bit 8 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). IMU data format status. Logic 0 = GYRO/CSA Logic 1 = GYRO/ACCEL			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = GYRO/CSA 1 = ACCL/GYR	
F-0649	IMU_Ychn_SEL		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0210/09	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(0,9) Scale Factor: ns		
Bit 9 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). Y-Axis channel in IMU, +GY2/+GY1 select status (GZB/GZA). Logic 0 = +GY2 Logic 1 = +GY1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = +GY2 1 = +GY1	

SCP TELEMETRY

F-0650	IMU_Xchn_SEL		AACS				
Data Type: STATUS # Bits: 1 Start Bit: F-0210/10	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(0,10) Scale Factor: ns						
Bit 10 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). X-Axis channel in IMU, -GX3/-GX1 select status (GYB/GYA).							
Logic 0 = -GX3 Logic 1 = -GX1							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.							
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td> State Names: 0 = -GX3 1 = -GX1 </td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = -GX3 1 = -GX1	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = -GX3 1 = -GX1					
F-0651	IMU_Zchn_SEL		AACS				
Data Type: STATUS # Bits: 1 Start Bit: F-0210/11	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(0,11) Scale Factor: ns						
Bit 11 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). Z-Axis channel in IMU, -GZ3/-GZ2 select status (GXB/GXA).							
Logic 0 = -GZ3 Logic 1 = -GZ2							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.							
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td> State Names: 0 = -GZ3 1 = -GZ2 </td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = -GZ3 1 = -GZ2	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = -GZ3 1 = -GZ2					

SCP TELEMETRY

F-0652	IMU_DATA_SEL		AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0210/12	Compool: CYCEXECPL FSW Name: TELEMMUSTATUS(0,12) Scale Factor: ns					
Bit 12 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). IMU side select status.						
Logic 0 = Primary Logic 1 = Backup						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = PRIMARY 1 = BACK_UP </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = PRIMARY 1 = BACK_UP
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = PRIMARY 1 = BACK_UP				
F-0653	IMU_G3_STAT		AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0210/13	Compool: CYCEXECPL FSW Name: TELEMMUSTATUS(0,13) Scale Factor: ns					
Bit 13 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). Gyro 3 status.						
Logic 0 = Off/Bad Logic 1 = On/Ok						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = OFF/BAD 1 = ON/OK </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF/BAD 1 = ON/OK
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF/BAD 1 = ON/OK				

SCP TELEMETRY

F-0654	IMU_G2_STAT		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0210/14	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(0,14) Scale Factor: ns		
Bit 14 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). Gyro 2 status.			
Logic 0 = Off/Bad Logic 1 = On/Ok			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF/BAD 1 = ON/OK	
F-0655	IMU_G1_STAT		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0210/15	Compool: CYCEXECCPL FSW Name: TELEMMUSTATUS(0,15) Scale Factor: ns		
Bit 15 of IMU status word read from SIB 2483 word 1 (IMU_ST_1 F/N-0210). Gyro 1 status.			
Logic 0 = Off/Bad Logic 1 = On/Ok			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of some IMU diagnostic info. Improper IMU configuration will affect attitude control.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF/BAD 1 = ON/OK	

SCP TELEMETRY

F-0700	MHSA_QD_B_00	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0266/00	Compool: AACCS2MHSACPL FSW Name: QUADDATABAD(0) Scale Factor: ns				
Bit 0 of MHSA_QD_BAD indicating MHSA Quadrant 1 usability.					
Logic 0 - Quadrant Good Logic 1 - Quadrant Bad (Not Usable)					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: No knowledge of which MHSA quadrants are good. Bad MHSA quadrants may be accessed.					
Alternate Telemetry: Related Measurements: <table border="1" data-bbox="163 823 850 1056"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td> State Names: 0 = QUAD_GOOD 1 = QUAD_BAD </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = QUAD_GOOD 1 = QUAD_BAD
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = QUAD_GOOD 1 = QUAD_BAD			
F-0701	MHSA_QD_B_01	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0266/01	Compool: AACCS2MHSACPL FSW Name: QUADDATABAD(1) Scale Factor: ns				
Bit 1 of MHSA_QD_BAD indicating MHSA Quadrant 2 usability.					
Logic 0 - Quadrant Good Logic 1 - Quadrant Bad (Not Usable)					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: No knowledge of which MHSA quadrants are good. Bad MHSA quadrants may be accessed.					
Alternate Telemetry: Related Measurements: <table border="1" data-bbox="163 1710 850 1943"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td> State Names: 0 = QUAD_GOOD 1 = QUAD_BAD </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = QUAD_GOOD 1 = QUAD_BAD
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = QUAD_GOOD 1 = QUAD_BAD			

SCP TELEMETRY

F-0702	MHSA_QD_B_02	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0266/02	Compool: AACCS2MHSACPL FSW Name: QUADDATA(BAD)(2) Scale Factor: ns	
Bit 2 of MHSA_QD_BAD indicating MHSA Quadrant 3 usability.		
Logic 0 - Quadrant Good Logic 1 - Quadrant Bad (Not Usable)		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: No knowledge of which MHSA quadrants are good. Bad MHSA quadrants may be accessed.		
Alternate Telemetry:		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = QUAD_GOOD 1 = QUAD_BAD
F-0703	MHSA_QD_B_03	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0266/03	Compool: AACCS2MHSACPL FSW Name: QUADDATA(BAD)(3) Scale Factor: ns	
Bit 3 of MHSA_QD_BAD indicating MHSA Quadrant 4 usability.		
Logic 0 - Quadrant Good Logic 1 - Quadrant Bad (Not Usable)		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: No knowledge of which MHSA quadrants are good. Bad MHSA quadrants may be accessed.		
Alternate Telemetry:		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = QUAD_GOOD 1 = QUAD_BAD

SCP TELEMETRY

F-0710	MHSA_QD_V_00	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0267/00	Compool: AAC2MHSACPL FSW Name: QUADVIEWSPACE(0) Scale Factor: ns				
Bit 0 of MHSA_QD_VIEW indicating MHSA Quadrant 1 view. Logic 0 - View Planet Logic 1 - Views Space					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: No knowledge of which quadrants are viewing space.					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = VIEW_PLANET 1 = VIEW_SPACE </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = VIEW_PLANET 1 = VIEW_SPACE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = VIEW_PLANET 1 = VIEW_SPACE			
F-0711	MHSA_QD_V_01	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0267/01	Compool: AAC2MHSACPL FSW Name: QUADVIEWSPACE(1) Scale Factor: ns				
Bit 1 of MHSA_QD_VIEW indicating MHSA Quadrant 2 view. Logic 0 - View Planet Logic 1 - Views Space					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: No knowledge of which quadrants are viewing space.					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = VIEW_PLANET 1 = VIEW_SPACE </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = VIEW_PLANET 1 = VIEW_SPACE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = VIEW_PLANET 1 = VIEW_SPACE			

SCP TELEMETRY

F-0712	MHSA_QD_V_02	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0267/02	Compool: AAC2MHSACPL FSW Name: QUADVIEWSPACE(2) Scale Factor: ns	
Bit 2 of MHSA_QD_VIEW indicating MHSA Quadrant 3 view. Logic 0 - View Planet Logic 1 - Views Space		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: No knowledge of which quadrants are viewing space.		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = VIEW_PLANET 1 = VIEW_SPACE
F-0713	MHSA_QD_V_03	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0267/03	Compool: AAC2MHSACPL FSW Name: QUADVIEWSPACE(3) Scale Factor: ns	
Bit 3 of MHSA_QD_VIEW indicating MHSA Quadrant 4 view. Logic 0 - View Planet Logic 1 - Views Space		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: No knowledge of which quadrants are viewing space.		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = VIEW_PLANET 1 = VIEW_SPACE

SCP TELEMETRY

F-0720	MOM_PRESET_0		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0276/00	Compool: AAC2MOMUNLPRESET FSW Name: MOMUNLENABLE Scale Factor: ns		
Bit 0 of Momentum Unload Presets (MOM_PRESETS F/N-0276). Momentum unload status. Logical 0 = DISABLED Logical 1 = ENABLED			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-0721	MOM_PRESET_1		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0276/01	Compool: AAC2MOMUNLPRESET FSW Name: MOMUNLENABLE Scale Factor: ns		
Bit 1 of Momentum Unload Presets (MOM_PRESETS F/N-0276). Spare Bit Logical 0 = 0 Logical 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	

SCP TELEMETRY

F-0740	INERT_REF		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0283/00	Compool: AACCS2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns		
Bit 0 of Packed Attitude Status word (PACK_ATT F/N-0283). Star IRE: Starex task has established inertial reference. Inertial-to-body attitude quaternion and gyro-biases are correctly estimated. Inertial reference is lost upon entry to Sun-Com-Pwr (Contingency mode), or when STAREX detects N unidentified stars.			
Logical 0 = Not Established Logical 1 = Established			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No knowledge of inertial reference status. Degraded attitude information.			
Alternate Telemetry: F-0283 (PACK_ATT)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ESTABLISH 1 = ESTABLISHED	
F-0741	BU_INERT_REF		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0283/01	Compool: AACCS2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns		
Bit 1 of Packed Attitude Status word (PACK_ATT F/N--0283). Backup IRE: Set true map state when rate and position errors are less than threshold.			
Logical 0 = Not Established Logical 1 = Established			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ESTABLISH 1 = ESTABLISHED	

SCP TELEMETRY

F-0742	MHSA_USABLE	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0283/02	Compool: AACCS2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns	
Bit 2 of Packed Attitude Status word (PACK_ATT F/N--0283). MHSA Down: RedMan has pronounced MHSA unusable. Reset only in response to command. Logical 0 = Up and OK Logical 1 = Down/Failed		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Will not know if MHSA used in AACS processing. Loss of MHSA degrades attitude control.		
Alternate Telemetry: F-0283 (PACK_ATT) Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = UP_&_OK 1 = DOWN_FAILED
F-0743	SUN_MON_CHK	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0283/03	Compool: AACCS2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns	
Bit 3 of Packed Attitude Status word (PACK_ATT F/N--0283). Sun Check Bad: Sun monitor check indicates bad attitude. Sun-Com-Pwr (and contingency mode) will be entered. Logical 0 = OK Logical 1 = Checked Bad		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Reason for Sun'corn'power mode entry unknown. Attitude control may degrade.		
Alternate Telemetry: N/A Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = CHECKED_BAD

SCP TELEMETRY

F-0744	MHSA_VIEW	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0283/04	Compool: AACCS2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns	
Bit 4 of Packed Attitude Status word (PACK_ATT F/N--0283). MHSA Views Space: One or more MHSA quadrants view space (are not locked on horizon) when bit is set. Logical 0 = Horizon Logical 1 = View Space		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify MHSA quadrant status. Degraded attitude control.		
Alternate Telemetry: F-0283 (PACK_ATT) Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = HORIZON 1 = SPACE
F-0745	MHSA_DATA	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0283/05	Compool: AACCS2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns	
Bit 5 of Packed Attitude Status word (PACK_ATT F/N--0283). MHSA Data Bad: Two or more MHSA quadrants have unusable data (quadrant usage disabled by command, or counts are very high). Logical 0 = Data OK Logical 1 = Data Bad		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify MHSA status. Degraded attitude control.		
Alternate Telemetry: F-0283 (PACK_ATT) Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK_DATA 1 = BAD_DATA

SCP TELEMETRY

F-0746	SUN_FILTER	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0283/06	Compool: AACCS2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns				
<p>Bit 6 of Packed Attitude Status word (PACK_ATT F/N--0283). Sun Filter Needs Initialized: The sun filter needs to be initialized. This is true when:</p> <ul style="list-style-type: none"> (1) Sun sensor processing software starts up, and prior to sun detection. (2) Whenever RedMan performs an SSA-related switch. (3) Mission operations reconfigures the SSA via RedMan command. If sun acquisition mode is entered when the sun filter needs initialized, Sun Search (submode 0) is entered. In safemode, Sun Search submode is entered whenever the sun filter needs to be initialized. <p>Logical 0 = Not Needed Logical 1 = Initialization Needed</p>					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: No knowledge about whether filter needs initialization. Attitude control may degrade.					
Alternate Telemetry: F-0283 (PACK_ATT) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = NOT_NEEDED 1 = INIT_NEEDED </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_NEEDED 1 = INIT_NEEDED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_NEEDED 1 = INIT_NEEDED			
F-0747	STAR_UPDATE	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0283/07	Compool: AACCS2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns				
<p>Bit 7 of Packed Attitude Status word (PACK_ATT F/N--0283). Star Updating Enabled: STAREX updating is enabled. Attitude control position and rate errors are below threshold. Valid in Sun-Star-Init, ANS, Map, and CSA Backup control states.</p> <p>Logical 0 = Not Enabled Logical 1 = Enabled</p>					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: No knowledge of whether Starex is updating stars. Attitude errors may occur.					
Alternate Telemetry: F-0283 (PACK_ATT) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = NOT_ACTIVE 1 = ACTIVE </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ACTIVE 1 = ACTIVE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ACTIVE 1 = ACTIVE			

SCP TELEMETRY

F-0748	MNVR_ACTIVE		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0283/08	Compool: AACCS2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns		
Bit 8 of Packed Attitude Status word (PACK_ATT F/N--0283). Maneuver Active: Maneuver software is controlling attitude. Logical 0 = Maneuver Not Active Logical 1 = Maneuver Active			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Software cannot verify maneuver in progress. Software may permit commands prohibited during maneuvers.			
Alternate Telemetry: F-0283 (PACK_ATT)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ACTIVE 1 = IN_PROGRESS	
F-0749	SUN_ON_ARRAY		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0283/09	Compool: AACCS2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns		
Bit 9 of Packed Attitude Status word (PACK_ATT F/N--0283). Sun On Array: The power task has determined that the sun is on the solar array. Logical 0 = Sun Not On Array Logical 1 = Sun On Array			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: May not know why momentum unloading occurred. Used in PAS. Battery charging/momentun unloading may be impacted.			
Alternate Telemetry: F-0283 (PACK_ATT)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ON 1 = ON	

SCP TELEMETRY

F-0750	NEW_MODE		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0283/10	Compool: AACCS2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns		
Bit 10 of Packed Attitude Status word (PACK_ATT F/N--0283). New Start: A new attitude control mode has been entered this control cycle when bit is set. Logical 0 = Old Mode Logical 1 = New Mode			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No software verification of new attitude control mode. Software will not realize a change occurred.			
Alternate Telemetry: F-0283 (PACK_ATT)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OLD_MODE 1 = NEW_MODE	
F-0751	LNCH_TACH_LK		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0283/11	Compool: AACCS2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns		
Bit 11 of Packed Attitude Status word (PACK_ATT F/N--0283). Launch Tach Locked Out: Launch Tach attitude control state cannot be entered unless it is first unlocked. Launch Tach attitude control state lock status. Logical 0 = Unlocked Logical 1 = Locked			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Status of Launch Tach Attitude cannot be verified. Without lockout, inadvertent selection of state may occur.			
Alternate Telemetry: F-0283 (PACK_ATT)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = UNLOCKED 1 = LOCKED	

SCP TELEMETRY

F-0752	SUN_MON_LIM		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0283/12	Compool: AACCS2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns		
Bit 12 of Packed Attitude Status word (PACK_ATT F/N--0283). Sun Outside Thresholds: Gyro-propagated sun vector is not within minimum and maximum dot product of uplinked reference vector.			
Logical 0 = Within Limits Logical 1 = Outside Limits			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Uncertainty about sun vector accuracy. Degraded attitude control.			
Alternate Telemetry: F-0283 (PACK_ATT)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = WITHIN_LIMIT 1 = OUTSIDE_LIMIT	
F-0753	SUN_DIF_EPH		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0283/13	Compool: AACCS2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns		
Bit 13 of Packed Attitude Status word (PACK_ATT F/N--0283). Sun Differs From Ephemeris: Angle between gyro-propagated sun vector and body-frame ephemeris sun vector is too large.			
Logical 0 = Vector Same Logical 1 = Vector Differs			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Predicted/actual vector differences not verified. Degraded attitude control.			
Alternate Telemetry: F-0283 (PACK_ATT)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = VECTOR_SAME 1 = VECTOR_DIFF	

SCP TELEMETRY

F-0754	PACK_ATT_14		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0283/14	Compool: AAC2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns		
Bit 14 of Packed Attitude Status word (PACK_ATT F/N--0283). Spare Bit			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Uncertainty about whether solar array gimbals are usable. Loss of solar array results in power loss.			
Alternate Telemetry: F-0283 (PACK_ATT)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
F-0755	CM_REQ_PEND		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0283/15	Compool: AAC2GLOBALCPL FSW Name: PACKED'ATTSTATUS Scale Factor: ns		
Bit 15 of Packed Attitude Status word (PACK_ATT F/N--0283). Contingency Request Pending: SMOEXEC requests entry into contingency attitude control mode (Sun'Com'Pwr) but AACS has not fulfilled the request. Logical 0 = Fulfilled Logical 1 = Pending			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of analysis into regarding mode switch. Proper attitude needed for successful vehicle operation.			
Alternate Telemetry: F-0283 (PACK_ATT)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FULFILLED 1 = PENDING	

SCP TELEMETRY

F-0760	RWA_X_SPDsgn	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0345/00	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns				
Bit 0 of the X RWA raw input data word (RWA_RAW_X F/N-0345). RWA sign bit. Logic 0 = Positive Logic 1 = Negative					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.					
Alternate Telemetry: F-0345 (RWA_RAW_X) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = POSITIVE 1 = NEGATIVE </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = POSITIVE 1 = NEGATIVE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = POSITIVE 1 = NEGATIVE			
F-0761	RWA_X_ID	AACS			
Data Type: STATUS # Bits: 2 Start Bit: F-0345/01	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns				
Bits 1 and 2 of the X RWA raw input data word (RWA_RAW_X F/N-0345). This parameter describes the wheel ID for the RWA. Wheel ID: 0 - X 1 - Y 2 - Z 3 - S					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.					
Alternate Telemetry: F-0345 (RWA_RAW_X) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = X_WHEEL 1 = Y_WHEEL 2 = Z_WHEEL 3 = S_WHEEL </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = X_WHEEL 1 = Y_WHEEL 2 = Z_WHEEL 3 = S_WHEEL
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = X_WHEEL 1 = Y_WHEEL 2 = Z_WHEEL 3 = S_WHEEL			

SCP TELEMETRY

F-0763	RWA_X_PWR_ST		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0345/03	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns		
Bit 3 of the X RWA raw input data word (RWA_RAW_X F/N-0345). RWA power status.			
Logic 0 = Off Logic 1 = On			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.			
Alternate Telemetry: F-0345 (RWA_RAW_X)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON	
F-0764	RWA_X_PWLIM		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0345/04	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns		
Bit 4 of the X RWA raw input data word (RWA_RAW_X F/N-0345). RWA power-limited condition.			
Logic 0 = No Limit Logic 1 = Power Limited			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.			
Alternate Telemetry: F-0345 (RWA_RAW_X)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LIMIT 1 = LIMITED	

SCP TELEMETRY

F-0765	RWA_X_SPDMAG	AACS
Data Type: UNSIGNED # Bits: 11 Start Bit: F-0345/05	Compool: AAC52RWACPL FSW Name: RWARAWWORD Scale Factor: ns	
Bits 5 through 15 of the X RWA raw input data word (RWA_RAW_X F/N-0345). This parameter is an eleven bit speed integer for the RWA. LSB = 5 RPM.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.		
Alternate Telemetry: F-0345 (RWA_RAW_X)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rpm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.00000E+00
F-0770	RWA_Y_SPDsgn	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0346/00	Compool: AAC52RWACPL FSW Name: RWARAWWORD Scale Factor: ns	
Bit 0 of the Y RWA raw input data word (RWA_RAW_Y F/N-0346). RWA sign bit. Logic 0 = Positive Logic 1 = Negative		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.		
Alternate Telemetry: F-0346 (RWA_RAW_Y)		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = POSITIVE 1 = NEGATIVE

SCP TELEMETRY

F-0771	RWA_Y_ID	AACS			
Data Type: STATUS # Bits: 2 Start Bit: F-0346/01	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns				
Bits 1 and 2 of the Y RWA raw input data word (RWA_RAW_Y F/N-0346). This parameter describes the wheel ID for the RWA. Wheel ID: 0 - X 1 - Y 2 - Z 3 - S					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.					
Alternate Telemetry: F-0346 (RWA_RAW_Y) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = X_WHEEL 1 = Y_WHEEL 2 = Z_WHEEL 3 = S_WHEEL </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = X_WHEEL 1 = Y_WHEEL 2 = Z_WHEEL 3 = S_WHEEL
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = X_WHEEL 1 = Y_WHEEL 2 = Z_WHEEL 3 = S_WHEEL			
F-0773	RWA_Y_PWR_ST	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0346/03	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns				
Bit 3 of the Y RWA raw input data word (RWA_RAW_Y F/N-0346). RWA power status. Logic 0 = Off Logic 1 = On					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.					
Alternate Telemetry: F-0346 (RWA_RAW_Y) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = OFF 1 = ON </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON			

SCP TELEMETRY

F-0774	RWA_Y_PWLIM	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0346/04	Compool: AAC52RWACPL FSW Name: RWARAWWORD Scale Factor: ns	
Bit 4 of the Y RWA raw input data word (RWA_RAW_Y F/N-0346). RWA power-limited condition.		
Logic 0 = No Limit Logic 1 = Power Limited		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.		
Alternate Telemetry: F-0346 (RWA_RAW_Y)		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LIMIT 1 = LIMITED
F-0775	RWA_Y_SPDMAG	AACS
Data Type: UNSIGNED # Bits: 11 Start Bit: F-0346/05	Compool: AAC52RWACPL FSW Name: RWARAWWORD Scale Factor: ns	
Bits 5 through 15 of the Y RWA raw input data word (RWA_RAW_Y F/N-0346). This parameter is an eleven bit speed integer for the RWA. LSB = 5 RPM.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.		
Alternate Telemetry: F-0346 (RWA_RAW_Y)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rpm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.00000E+00

SCP TELEMETRY

F-0780	RWA_Z_SPDsgn	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0347/00	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns				
Bit 0 of the Z RWA raw input data word (RWA_RAW_Z F/N-0347). RWA sign bit. Logic 0 = Positive Logic 1 = Negative					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.					
Alternate Telemetry: F-0347 (RWA_RAW_Z) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = POSITIVE 1 = NEGATIVE </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = POSITIVE 1 = NEGATIVE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = POSITIVE 1 = NEGATIVE			
F-0781	RWA_Z_ID	AACS			
Data Type: STATUS # Bits: 2 Start Bit: F-0347/01	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns				
Bits 1 and 2 of the Z RWA raw input data word (RWA_RAW_Z F/N-0347). This parameter describes the wheel ID for the RWA. Wheel ID: 0 - X 1 - Y 2 - Z 3 - S					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.					
Alternate Telemetry: F-0347 (RWA_RAW_Z) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = X_WHEEL 1 = Y_WHEEL 2 = Z_WHEEL 3 = S_WHEEL </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = X_WHEEL 1 = Y_WHEEL 2 = Z_WHEEL 3 = S_WHEEL
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = X_WHEEL 1 = Y_WHEEL 2 = Z_WHEEL 3 = S_WHEEL			

SCP TELEMETRY

F-0783	RWA_Z_PWR_ST		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0347/03	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns		
Bit 3 of the Z RWA raw input data word (RWA_RAW_Z F/N-0347). RWA power status.			
Logic 0 = Off Logic 1 = On			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.			
Alternate Telemetry: F-0347 (RWA_RAW_Z)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON	
F-0784	RWA_Z_PWLIM		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0347/04	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns		
Bit 4 of the Z RWA raw input data word (RWA_RAW_Z F/N-0347). RWA power-limited condition.			
Logic 0 = No Limit Logic 1 = Power Limited			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.			
Alternate Telemetry: F-0347 (RWA_RAW_Z)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LIMIT 1 = LIMITED	

SCP TELEMETRY

F-0785	RWA_Z_SPDMAG		AACS
Data Type: UNSIGNED # Bits: 11 Start Bit: F-0347/05	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns		
Bits 5 through 15 of the Z RWA raw input data word (RWA_RAW_Z F/N-0347). This parameter is an eleven bit speed integer for the RWA. LSB = 5 RPM.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.			
Alternate Telemetry: F-0347 (RWA_RAW_Z)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rpm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.00000E+00	
F-0790	RWA_S_SPDsgn		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0348/00	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns		
Bit 0 of the S RWA raw input data word (RWA_RAW_S F/N-0348). RWA sign bit. Logic 0 = Positive Logic 1 = Negative			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.			
Alternate Telemetry: F-0348 (RWA_RAW_S)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = POSITIVE 1 = NEGATIVE	

SCP TELEMETRY

F-0791	RWA_S_ID	AACS			
Data Type: STATUS # Bits: 2 Start Bit: F-0348/01	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns				
Bits 1 and 2 of the S RWA raw input data word (RWA_RAW_S F/N-0348). This parameter describes the wheel ID for the RWA. Wheel ID: 0 - X 1 - Y 2 - Z 3 - S					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.					
Alternate Telemetry: F-0348 (RWA_RAW_S) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = X_WHEEL 1 = Y_WHEEL 2 = Z_WHEEL 3 = S_WHEEL </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = X_WHEEL 1 = Y_WHEEL 2 = Z_WHEEL 3 = S_WHEEL
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = X_WHEEL 1 = Y_WHEEL 2 = Z_WHEEL 3 = S_WHEEL			
F-0793	RWA_S_PWR_ST	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0348/03	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns				
Bit 3 of the S RWA raw input data word (RWA_RAW_S F/N-0348). RWA power status. Logic 0 = Off Logic 1 = On					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.					
Alternate Telemetry: F-0348 (RWA_RAW_S) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = OFF 1 = ON </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON			

SCP TELEMETRY

F-0794	RWA_S_PWLIM		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0348/04	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns		
Bit 4 of the S RWA raw input data word (RWA_RAW_S F/N-0348). RWA power-limited condition.			
Logic 0 = No Limit Logic 1 = Power Limited			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.			
Alternate Telemetry: F-0348 (RWA_RAW_S)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LIMIT 1 = LIMITED	
F-0795	RWA_S_SPDMAG		AACS
Data Type: UNSIGNED # Bits: 11 Start Bit: F-0348/05	Compool: AACCS2RWACPL FSW Name: RWARAWWORD Scale Factor: ns		
Bits 5 through 15 of the S RWA raw input data word (RWA_RAW_S F/N-0348). This parameter is an eleven bit speed integer for the RWA. LSB = 5 RPM.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about parameters used in AACS processing. Degraded attitude control.			
Alternate Telemetry: F-0348 (RWA_RAW_S)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: rpm CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 5.00000E+00	

SCP TELEMETRY

F-0800	SAM_STATS_00		AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0385/00	Compool: AACCS2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns					
Bit 0 of Raw Backup SAM GDE status telemetry (SAM_STATS F/N-0385). SAM side status.						
Logic 0 = Side A On Logic 1 = Side B On						
Loss of Function: Gimbal loss degrades solar array pointing.						
Recommended Action:						
Impact of Loss of Tlm: Cannot verify SAM status.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = SIDE_A_ON 1 = SIDE_B_ON </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A_ON 1 = SIDE_B_ON
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A_ON 1 = SIDE_B_ON				
F-0801	SAM_STATS_01		AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0385/01	Compool: AACCS2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns					
Bit 1 of Raw Backup SAM GDE status telemetry (SAM_STATS F/N-0385). Elevation motor status.						
Logic 0 = Not Moving Logic 1 = Moving						
Loss of Function: Gimbal loss degrades solar array pointing.						
Recommended Action:						
Impact of Loss of Tlm: Cannot verify SAM status.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = NOT_MOVING 1 = MOVING </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_MOVING 1 = MOVING
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_MOVING 1 = MOVING				

SCP TELEMETRY

F-0802	SAM_STATS_02		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0385/02	Compool: AACCS2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns		
Bit 2 of Raw Backup SAM GDE status telemetry (SAM_STATS F/N-0385). Elevation motor direction. Logic 0 = Forward Logic 1 = Reverse			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAM status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FORWARD 1 = REVERSE	
F-0803	SAM_STATS_03		AACS
Data Type: STATUS # Bits: 2 Start Bit: F-0385/03	Compool: AACCS2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns		
Bits 3 and 4 of Raw Backup SAM GDE status telemetry (SAM_STATS F/N-0385). Elevation motor mode. 0 - Stop Command in Effect 1 - Rate Mode 2 - Step Mode 3 - Invalid			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAM status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = STOP_CMD 1 = RATE_MODE 2 = STEP_MODE 3 = INVALID	

SCP TELEMETRY

F-0805	SAM_STATS_05		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0385/05	Compool: AACCS2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns		
Bit 5 of Raw Backup SAM GDE status telemetry (SAM_STATS F/N-0385). Elevation motor forward limit status.			
Logic 0 = Not at Forward Limit Logic 1 = Stopped at Forward Limit			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAM status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LIMIT 1 = FWD_LIMIT	
F-0806	SAM_STATS_06		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0385/06	Compool: AACCS2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns		
Bit 6 of Raw Backup SAM GDE status telemetry (SAM_STATS F/N-0385). Elevation motor reverse limit status.			
Logic 0 = Not at Reverse Limit Logic 1 = Stopped at Reverse Limit			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAM status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LIMIT 1 = REV_LIMIT	

SCP TELEMETRY

F-0807	SAM_STATS_07		AACS
Data Type: UNSIGNED # Bits: 2 Start Bit: F-0385/07	Compool: AACCS2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns		
Bits 7 and 8 of Raw Backup SAM GDE status telemetry (SAM_STATS F/N-0385). Spare 2 bits.			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAM status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0809	SAM_STATS_09		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0385/09	Compool: AACCS2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns		
Bit 9 of Raw Backup SAM GDE status telemetry (SAM_STATS F/N-0385). Azimuth motor status. Logic 0 = Not Moving Logic 1 = Moving			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAM status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_MOVING 1 = MOVING	

SCP TELEMETRY

F-0810	SAM_STATS_10		AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0385/10	Compool: AACCS2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns					
Bit 10 of Raw Backup SAM GDE status telemetry (SAM_STATS F/N-0385). Azimuth motor direction.						
Logic 0 = Forward Logic 1 = Reverse						
Loss of Function: Gimbal loss degrades solar array pointing.						
Recommended Action:						
Impact of Loss of Tlm: Cannot verify SAM status.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = FORWARD 1 = REVERSE </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FORWARD 1 = REVERSE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FORWARD 1 = REVERSE				
F-0811	SAM_STATS_11		AACS			
Data Type: STATUS # Bits: 2 Start Bit: F-0385/11	Compool: AACCS2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns					
Bits 11 and 12 of Raw Backup SAM GDE status telemetry (SAM_STATS F/N-0385). Azimuth motor mode.						
0 - Stop Command in Effect 1 - Rate Mode 2 - Step Mode 3 - Invalid						
Loss of Function: Gimbal loss degrades solar array pointing.						
Recommended Action:						
Impact of Loss of Tlm: Cannot verify SAM status.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = STOP_CMD 1 = RATE_MODE 2 = STEP_MODE 3 = INVALID </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = STOP_CMD 1 = RATE_MODE 2 = STEP_MODE 3 = INVALID
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = STOP_CMD 1 = RATE_MODE 2 = STEP_MODE 3 = INVALID				

SCP TELEMETRY

F-0813	SAM_STATS_13		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0385/13	Compool: AACCS2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns		
Bit 13 of Raw Backup SAM GDE status telemetry (SAM_STATS F/N-0385). Azimuth motor forward limit status.			
Logic 0 = Not at Forward Limit Logic 1 = Stopped at Forward Limit			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAM status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LIMIT 1 = FWDD_LIMIT	
F-0814	SAM_STATS_14		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0385/14	Compool: AACCS2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns		
Bit 14 of Raw Backup SAM GDE status telemetry (SAM_STATS F/N-0385). Azimuth motor reverse limit status.			
Logic 0 = Not at Reverse Limit Logic 1 = Stopped at Reverse Limit			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAM status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LIMIT 1 = REV_LIMIT	

SCP TELEMETRY

F-0815	SAM_STATS_15		AACS
Data Type: UNSIGNED # Bits: 1 Start Bit: F-0385/15	Compool: AACCS2GLOBALCPL FSW Name: SAMRAWDATA Scale Factor: ns		
Bit 15 of Raw Backup SAM GDE status telemetry (SAM_STATS F/N-0385). Spare bit always set to 1.			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAM status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0820	SAP_STATS_00		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0415/00	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns		
Bit 0 of Raw Backup SAP GDE status telemetry (SAP_STATS F/N-0415). SAP side status. Logic 0 = Side A On Logic 1 = Side B On			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAP status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A_ON 1 = SIDE_B_ON	

SCP TELEMETRY

F-0821	SAP_STATS_01	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0415/01	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns	
Bit 1 of Raw Backup SAP GDE status telemetry (SAP_STATS F/N-0415). Elevation motor status. Logic 0 = Not Moving Logic 1 = Moving		
Loss of Function: Gimbal loss degrades solar array pointing.		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify SAP status.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_MOVING 1 = MOVING
F-0822	SAP_STATS_02	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0415/02	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns	
Bit 2 of Raw Backup SAM GDE status telemetry (SAM_STATS F/N-0415). Elevation motor direction. Logic 0 = Forward Logic 1 = Reverse		
Loss of Function: Gimbal loss degrades solar array pointing.		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify SAP status.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FORWARD 1 = REVERSE

SCP TELEMETRY

F-0823	SAP_STATS_03		AACS
Data Type: STATUS # Bits: 2 Start Bit: F-0415/03	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns		
Bits 3 and 4 of Raw Backup SAP GDE status telemetry (SAP_STATS F/N-0415). Elevation motor mode.			
0 - Stop Command in Effect 1 - Rate Mode 2 - Step Mode 3 - Invalid			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAP status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = STOP_CMD 1 = RATE_MODE 2 = STEP_MODE 3 = INVALID	
F-0825	SAP_STATS_05		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0415/05	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns		
Bit 5 of Raw Backup SAP GDE status telemetry (SAP_STATS F/N-0415). Elevation motor forward limit status.			
Logic 0 = Not at Forward Limit Logic 1 = Stopped at Forward Limit			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAP status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LIMIT 1 = FWD_LIMIT	

SCP TELEMETRY

F-0826	SAP_STATS_06	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-0415/06	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns				
Bit 6 of Raw Backup SAP GDE status telemetry (SAP_STATS F/N-0415). Elevation motor reverse limit status. Logic 0 = Not at Reverse Limit Logic 1 = Stopped at Reverse Limit					
Loss of Function: Gimbal loss degrades solar array pointing.					
Recommended Action:					
Impact of Loss of Tlm: Cannot verify SAP status.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"> State Names: 0 = NO_LIMIT 1 = REV_LIMIT </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LIMIT 1 = REV_LIMIT
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LIMIT 1 = REV_LIMIT			
F-0827	SAP_STATS_07	AACS			
Data Type: UNSIGNED # Bits: 2 Start Bit: F-0415/07	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns				
Bits 7 and 8 of Raw Backup SAP GDE status telemetry (SAP_STATS F/N-0415). Spare 2 bits.					
Loss of Function: Gimbal loss degrades solar array pointing.					
Recommended Action:					
Impact of Loss of Tlm: Cannot verify SAP status.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"> </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-0829	SAP_STATS_09	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0415/09	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns	
Bit 9 of Raw Backup SAP GDE status telemetry (SAP_STATS F/N-0415). Azimuth motor status. Logic 0 = Not Moving Logic 1 = Moving		
Loss of Function: Gimbal loss degrades solar array pointing.		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify SAP status.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_MOVING 1 = MOVING
F-0830	SAP_STATS_10	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0415/10	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns	
Bit 10 of Raw Backup SAP GDE status telemetry (SAP_STATS F/N-0415). Azimuth motor direction. Logic 0 = Forward Logic 1 = Reverse		
Loss of Function: Gimbal loss degrades solar array pointing.		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify SAP status.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FORWARD 1 = REVERSE

SCP TELEMETRY

F-0831	SAP_STATS_11		AACS
Data Type: STATUS # Bits: 2 Start Bit: F-0415/11	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns		
Bits 11 and 12 of Raw Backup SAP GDE status telemetry (SAP_STATS F/N-0415). Azimuth motor mode.			
0 - Stop Command in Effect 1 - Rate Mode 2 - Step Mode 3 - Invalid			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAP status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = STOP_CMD 1 = RATE_MODE 2 = STEP_MODE 3 = INVALID	
F-0833	SAP_STATS_13		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0415/13	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns		
Bit 13 of Raw Backup SAP GDE status telemetry (SAP_STATS F/N-0415). Azimuth motor forward limit status.			
Logic 0 = Not at Forward Limit Logic 1 = Stopped at Forward Limit			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAP status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LIMIT 1 = FWD_LIMIT	

SCP TELEMETRY

F-0834	SAP_STATS_14		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0415/14	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns		
Bit 14 of Raw Backup SAP GDE status telemetry (SAP_STATS F/N-0415). Azimuth motor reverse limit status.			
Logic 0 = Not at Reverse Limit Logic 1 = Stopped at Reverse Limit			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAP status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_LIMIT 1 = REV_LIMIT	
F-0835	SAP_STATS_15		AACS
Data Type: UNSIGNED # Bits: 1 Start Bit: F-0415/15	Compool: AACCS2GLOBALCPL FSW Name: SAPRAWDATA Scale Factor: ns		
Bit 15 of Raw Backup SAP GDE status telemetry (SAP_STATS F/N-0415). Spare bit always set to 1.			
Loss of Function: Gimbal loss degrades solar array pointing.			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify SAP status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0840	SSA_RET_A_GC		AACS
Data Type: UNSIGNED # Bits: 8 Start Bit: F-0440/00	Compool: CYCEXECCPL FSW Name: TELEMRETICLE Scale Factor: ns		
Reticle-A byte of Sun sensor raw input data word 1. Unsigned 8-bit integer in Gray code. ('A' byte of raw word SSA_RAW_RET F/N-0440). SSA X data word.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No knowledge of SSA status. Loss of SSA may degrade attitude control.			
Alternate Telemetry: F-0440 (SSA_RAW_RET)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0848	SSA_RET_B_GC		AACS
Data Type: UNSIGNED # Bits: 8 Start Bit: F-0440/08	Compool: CYCEXECCPL FSW Name: TELEMRETICLE Scale Factor: ns		
Reticle-B byte of Sun sensor raw input data word 1. Unsigned 8-bit integer in Gray code. ('B' byte of raw word SSA_RAW_RET F/N-0440). SSA Y data word.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No knowledge of SSA status. Loss of SSA may degrade attitude control.			
Alternate Telemetry: F-0440 (SSA_RAW_RET)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-0860	SSA_RAW_D_00		AACS
Data Type: UNSIGNED # Bits: 8 Start Bit: F-0442/00	Compool: CYCEXECCPL FSW Name: TELEMNEWSSASTATUS Scale Factor: ns		
First byte of sun sensor raw input data word 2 (SSA_RAW_DET F/N-0442). Spare byte consisting of all zero's.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No SSA raw telemetry.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-0868	SSA_MODE_SEL		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0442/08	Compool: CYCEXECCPL FSW Name: TELEMNEWSSASTATUS Scale Factor: ns		
Bit 8 of sun sensor raw input data word 2 (SSA_RAW_DET C/N F/N-0442). Mode bit. Logic 0 = Autonomous detector select Logic 1 = SCP/Ground detector select			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No knowledge of SSA status. Loss of SSA may degrade attitude control.			
Alternate Telemetry: F-0442 (SSA_RAW_DET)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = AUTO_SET 1 = SCP/GRD_SET	

SCP TELEMETRY

F-0869	SSA_SUN_SEEN		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0442/09	Compool: CYCEXECCPL FSW Name: TELEMNEWSSASTATUS Scale Factor: ns		
Bit 9 of sun sensor raw input data word 2 (SSA_RAW_DET F/N-0442). Quality bit. Logic 0 = BAD Logic 1 = GOOD --> $8 < (\text{ATA-A}/\text{ATA-B}) < 1.25$ and $(\text{ATA-A}+\text{ATA-B}) > \text{Threshold}$. When true, sun is seen by SSA.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No knowledge of SSA status. Loss of SSA may degrade attitude control.			
Alternate Telemetry: F-0442 (SSA_RAW_DET)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_SUN 1 = SUN	
F-0870	SSA_CMD_DET		AACS
Data Type: STATUS # Bits: 3 Start Bit: F-0442/10	Compool: CYCEXECCPL FSW Name: TELEMNEWSSASTATUS Scale Factor: ns		
Bits 10 through 12 of Sun sensor raw input data word 2 (SSA_RAW_DET F/N-0442). 3-bit ID of detector commanded by ground. May have a value from 1 to 5. Values 0, 6 and 7 indicate no selection. Commanded detector ID, used in computer mode.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No knowledge of SSA status. Loss of SSA may degrade attitude control.			
Alternate Telemetry: F-0442 (SSA_RAW_DET)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ***** 1 = SCP/GRD_1 2 = SCP/GRD_2 3 = SCP/GRD_3 4 = SCP/GRD_4 5 = SCP/GRD_5	

SCP TELEMETRY

F-0873	SSA_AUTO_DET		AACS
Data Type: STATUS # Bits: 3 Start Bit: F-0442/13	Compool: CYCEXECCPL FSW Name: TELEMNEWSSASTATUS Scale Factor: ns		
Bits 13 through 15 of Sun sensor raw input data word 2 (SSA_RAW_DET F/N-0442). 3-bit ID of detector selected by SSA autonomously. May have a value from 1 to 5. Values 0, 6 and 7 indicate no selection. Auto mode selected detector ID.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No knowledge of SSA status. Loss of SSA may degrade attitude control.			
Alternate Telemetry: F-0442 (SSA_RAW_DET)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = ***** 1 = AUTO_1 2 = AUTO_2 3 = AUTO_3 4 = AUTO_4 5 = AUTO_5	
F-0884	MOMUNL_AXIS		AACS
Data Type: STATUS # Bits: 4 Start Bit: F-0277/04	Compool: AACSMOMUNLCPL FSW Name: MOMUNLSTATUS Scale Factor: ns		
Momentum Unload Axis			
0 - Timer Is Off 1 - Emergency 2 - Spin 3 - Yaw 4 - Off			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Mission Ops must derive sequence state from sys mom and thruster firings.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = TIMER_OFF 1 = EMERGENCY 2 = SPIN 3 = YAW 4 = OFF_AXIS	

SCP TELEMETRY

F-0888		MOMUNL_STATE	AACS			
Data Type: STATUS # Bits: 4 Start Bit: F-0277/08		Compool: AACCS2MOMUNLCPL FSW Name: MOMUNLSTATUS Scale Factor: ns				
Momentum Unload State						
0 - Standby 1 - Warmup 2 - Unload 3 - Stop 4 - Cleanup						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Mission Ops must derive sequence state from sys mom and thruster firings.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = STANDBY 1 = WARMUP 2 = UNLOADING 3 = STOP 4 = CLEANUP </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = STANDBY 1 = WARMUP 2 = UNLOADING 3 = STOP 4 = CLEANUP
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = STANDBY 1 = WARMUP 2 = UNLOADING 3 = STOP 4 = CLEANUP				
F-0892		UNLSEQ_STATE	AACS			
Data Type: STATUS # Bits: 4 Start Bit: F-0277/12		Compool: AACCS2MOMUNLCPL FSW Name: MOMUNLSTATUS Scale Factor: ns				
Unload Seq State						
0 - Ready 1 - Emergency Disabled 2 - Fire 3 - Emergency Enabled 4 - FF End 5 - End						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Mission Ops must derive sequence state from sys mom and thruster firings.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = READY 1 = EMER_DISABLE 2 = FIRE 3 = EMER_ENABLE 4 = FF_END 5 = END </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = READY 1 = EMER_DISABLE 2 = FIRE 3 = EMER_ENABLE 4 = FF_END 5 = END
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = READY 1 = EMER_DISABLE 2 = FIRE 3 = EMER_ENABLE 4 = FF_END 5 = END				

SCP TELEMETRY

F-0900	ASN_CSAoffst		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0009/00	Compool: AAC2GLOBALPRESET FSW Name: NEWAACSTATUS(0) Scale Factor: ns		
Bit 0 of the New AACS Status word (ATT_STAT_NEW F/N-0009). CSA offset enable status.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to determine AACS status.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-0901	ASN_NOM_ACT		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0009/01	Compool: AAC2GLOBALPRESET FSW Name: NEWAACSTATUS(1) Scale Factor: ns		
Bit 1 of the New AACS Status word (ATT_STAT_NEW F/N-0009). Nominal mode actuator select status.			
Logic 0 = RWAs Selected Logic 1 = REAs Selected			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to determine AACS status.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RWA_SELECTED 1 = REA_SELECTED	

SCP TELEMETRY

F-0902	ASN_CM_ACT		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0009/02	Compool: AAC52GLOBALPRESET FSW Name: NEWAACSSTATUS(2) Scale Factor: ns		
Bit 2 of the New AAC5 Status word (ATT_STAT_NEW F/N-0009). Contingency mode actuator select status.			
Logic 0 = RWAs Selected Logic 1 = REAs Selected			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to determine AAC5 status.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RWA_SELECTED 1 = REA_SELECTED	
F-0903	ASN_THR_LEAK		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0009/03	Compool: AAC52GLOBALPRESET FSW Name: NEWAACSSTATUS(3) Scale Factor: ns		
Bit 3 of the New AAC5 Status word (ATT_STAT_NEW F/N-0009). Thruster leak check enable status.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to determine AAC5 status.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	

SCP TELEMETRY

F-0904	ASN_CNTR_FLT		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0009/04	Compool: AAC2GLOBALPRESET FSW Name: NEWAACSSTATUS(4) Scale Factor: ns		
Bit 4 of the New AACS Status word (ATT_STAT_NEW F/N-0009). Control fault enable status. Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to determine AACS status.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-0905	ASN_RWA_STIC		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0009/05	Compool: AAC2GLOBALPRESET FSW Name: NEWAACSSTATUS(5) Scale Factor: ns		
Bit 5 of the New AACS Status word (ATT_STAT_NEW F/N-0009). Reaction wheel stiction control enable status. Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to determine AACS status.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	

SCP TELEMETRY

F-0906	ASN_SPARE_06		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0009/06	Compool: AAC2GLOBALPRESET FSW Name: NEWAACSSTATUS(6) Scale Factor: ns		
Bit 6 of the New AACS Status word (ATT_STAT_NEW F/N-0009). Spare bit			
Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to determine AACS status.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
F-0907	ASN_SPARE_07		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0009/07	Compool: AAC2GLOBALPRESET FSW Name: NEWAACSSTATUS(7) Scale Factor: ns		
Bit 7 of the New AACS Status word (ATT_STAT_NEW F/N-0009). Spare bit			
Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to determine AACS status.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	

SCP TELEMETRY

F-0908	ASN_EOD		AACS			
Data Type: STATUS # Bits: 2 Start Bit: F-0009/08	Compool: AAC52GLOBALPRESET FSW Name: NEWAACSSTATUS(8) Scale Factor: ns					
Bits 8 and 9 of the New AACS Status word (ATT_STAT_NEW F/N-0009). End Of Drag status.						
Logic 00 = Reset Logic 01 = Drag Logic 10 = Post Drag Logic 11 = Invalid State						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Inability to determine AACS status.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"> State Names: 0 = RESET 1 = DRAG 2 = POST_DRAG 3 = INVALID </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = DRAG 2 = POST_DRAG 3 = INVALID
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = DRAG 2 = POST_DRAG 3 = INVALID				
F-0910	ASN_THR_SEL		AACS			
Data Type: STATUS # Bits: 2 Start Bit: F-0009/10	Compool: AAC52GLOBALPRESET FSW Name: NEWAACSSTATUS(10) Scale Factor: ns					
Bits 10 and 11 of the New AACS Status word (ATT_STAT_NEW F/N-0009). End Of Drag status.						
Logic 00 = String 1 Logic 01 = String 2 Logic 10 = Both Strings Logic 11 = Invalid State						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Inability to determine AACS status.						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"> State Names: 0 = STRING_1 1 = STRING_2 2 = BOTH_STRINGS 3 = INVALID </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = STRING_1 1 = STRING_2 2 = BOTH_STRINGS 3 = INVALID
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = STRING_1 1 = STRING_2 2 = BOTH_STRINGS 3 = INVALID				

SCP TELEMETRY

F-0912	ASN_SPARE_12		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0009/12	Compool: AAC2GLOBALPRESET FSW Name: NEWAACSSSTATUS(12) Scale Factor: ns		
Bit 12 of the New AACS Status word (ATT_STAT_NEW F/N-0009). Spare bit Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to determine AACS status.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
F-0913	ASN_SPARE_13		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0009/13	Compool: AAC2GLOBALPRESET FSW Name: NEWAACSSSTATUS(13) Scale Factor: ns		
Bit 13 of the New AACS Status word (ATT_STAT_NEW F/N-0009). Spare bit Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to determine AACS status.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	

SCP TELEMETRY

F-0914	ASN_SPARE_14		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0009/14	Compool: AAC2GLOBALPRESET FSW Name: NEWAACSSTATUS(14) Scale Factor: ns		
Bit 14 of the New AACS Status word (ATT_STAT_NEW F/N-0009). Spare bit Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to determine AACS status.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
F-0915	ASN_SPARE_15		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-0009/15	Compool: AAC2GLOBALPRESET FSW Name: NEWAACSSTATUS(15) Scale Factor: ns		
Bit 15 of the New AACS Status word (ATT_STAT_NEW F/N-0009). Spare bit Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Inability to determine AACS status.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	

SCP TELEMETRY

F-1000	AUDIT_Q_CNT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: QUEUECPL FSW Name: AUDITQUEDESCRIPTOR Scale Factor: ns		
Number of words of Audit Queue Messages currently in the Audit Queue (5 words = 1 message). The Audit Queue should be dumped when there are more than just a few messages in the queue. Messages will be lost if the queue reaches its capacity of 255 words (51 messages).			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Could result into loss of Audit queue messages if not readout before overflow and thus reduced diagnostic capability.			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1001	AUDIT_Q_LOST		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: QUEUECPL FSW Name: AUDITQUEDESCRIPTOR Scale Factor: ns		
Number of messages lost in audit queue.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Could make post anomaly analysis difficult if messages are lost. The Audit queue is 255 words =51 messsages.			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1002	AUDIT_Q_W1	CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: AUDITQUECPL FSW Name: AUDITQUEMSGTYPE Scale Factor: ns	
Audit queue message word 1 (Message ID). Message ID of last message placed (or not placed if queue was full) in the Audit Queue. Audit queue message id's described in Software User's Guide.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: None, as long as Audit Queue has not overflowed.		
Alternate Telemetry: Dump Audit Queue.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
F-1003	AUDIT_Q_W2-3	CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: AUDITQUECPL FSW Name: AUDITQUETIMETAG Scale Factor: ns	
Audit queue message words 2 and 3 (Timetag (LSB = 1 Second)). SCLK time of last message placed (or not placed if queue was full) in the Audit Queue.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: None, as long as Audit Queue has not overflowed.		
Alternate Telemetry: Dump Audit Queue.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	

SCP TELEMETRY

F-1004	AUDIT_Q_W4		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AUDITQUECPL FSW Name: DIAGNOSTICDATA1 Scale Factor: ns		
Audit queue message word 4 (Diagnostic Data 1). Diagnostic data of last message placed (or not placed if queue was full) in the Audit Queue. Data word content described in Software User's Guide.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None, as long as Audit Queue has not overflowed.			
Alternate Telemetry: Dump Audit Queue.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1005	AUDIT_Q_W5		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: AUDITQUECPL FSW Name: DIAGNOSTICDATA2 Scale Factor: ns		
Audit queue message word 5 (Diagnostic Data 2). Diagnostic data of last message placed (or not placed if queue was full) in the Audit Queue. Data word content described in Software User's Guide.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None, as long as Audit Queue has not overflowed.			
Alternate Telemetry: Dump Audit Queue.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1008	AUTOENAB_1		CDH																
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE Scale Factor: ns																		
RedMan autonomous enable flags word 1. Contains 16 status flags corresponds to a device as defined in Device'Id'Type, and indicate whether or not the autonomous response for the device is enabled. Bits are set and cleared individually by REDMAN_ON and REDMAN_OFF commands. Individual bit channels are F/N-1500 through F/N-1515.																			
<table> <tbody> <tr><td>Bit 0 - Bus</td><td>Bit 8 - XSU</td></tr> <tr><td>Bit 1 - Clock</td><td>Bit 9 - RPA</td></tr> <tr><td>Bit 2 - SSA</td><td>Bit 10 - MOT</td></tr> <tr><td>Bit 3 - RWA</td><td>Bit 11 - PSE</td></tr> <tr><td>Bit 4 - IMU</td><td>Bit 12 - SAP</td></tr> <tr><td>Bit 5 - Gyro</td><td>Bit 13 - HGA</td></tr> <tr><td>Bit 6 - DTC</td><td>Bit 14 - SAM</td></tr> <tr><td>Bit 7 - EDF</td><td>Bit 15 - Attitude Fault</td></tr> </tbody> </table>				Bit 0 - Bus	Bit 8 - XSU	Bit 1 - Clock	Bit 9 - RPA	Bit 2 - SSA	Bit 10 - MOT	Bit 3 - RWA	Bit 11 - PSE	Bit 4 - IMU	Bit 12 - SAP	Bit 5 - Gyro	Bit 13 - HGA	Bit 6 - DTC	Bit 14 - SAM	Bit 7 - EDF	Bit 15 - Attitude Fault
Bit 0 - Bus	Bit 8 - XSU																		
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Bit 4 - IMU	Bit 12 - SAP																		
Bit 5 - Gyro	Bit 13 - HGA																		
Bit 6 - DTC	Bit 14 - SAM																		
Bit 7 - EDF	Bit 15 - Attitude Fault																		
Loss of Function: Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.																			
Recommended Action:																			
Impact of Loss of Tlm: Confirmation of successful RedMan_On/Off only by successful CV or by explicit MRO of Autonomous Enable Flags.																			
Alternate Telemetry: CV Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td></td> <td></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0														
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0																		
F-1009	AUTOENAB_2		CDH																
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE Scale Factor: ns																		
RedMan autonomous enable flags word 2. Contains 16 status flags corresponds to a device as defined in Device'Id'Type, and indicate whether or not the autonomous response for the device is enabled. Bits are set and cleared individually by REDMAN_ON and REDMAN_OFF commands. Individual bit channels are F/N-1660 through F/N-1675.																			
<table> <tbody> <tr><td>Bit 0 - MHSA</td><td>Bit 8 - spare</td></tr> <tr><td>Bit 1 - CSA</td><td>Bit 9 - spare</td></tr> <tr><td>Bit 2 - TANK</td><td>Bit 10 - spare</td></tr> <tr><td>Bit 3 - REA</td><td>Bit 11 - spare</td></tr> <tr><td>Bit 4 - spare</td><td>Bit 12 - spare</td></tr> <tr><td>Bit 5 - spare</td><td>Bit 13 - spare</td></tr> <tr><td>Bit 6 - spare</td><td>Bit 14 - spare</td></tr> <tr><td>Bit 7 - spare</td><td>Bit 15 - spare</td></tr> </tbody> </table>				Bit 0 - MHSA	Bit 8 - spare	Bit 1 - CSA	Bit 9 - spare	Bit 2 - TANK	Bit 10 - spare	Bit 3 - REA	Bit 11 - spare	Bit 4 - spare	Bit 12 - spare	Bit 5 - spare	Bit 13 - spare	Bit 6 - spare	Bit 14 - spare	Bit 7 - spare	Bit 15 - spare
Bit 0 - MHSA	Bit 8 - spare																		
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Bit 2 - TANK	Bit 10 - spare																		
Bit 3 - REA	Bit 11 - spare																		
Bit 4 - spare	Bit 12 - spare																		
Bit 5 - spare	Bit 13 - spare																		
Bit 6 - spare	Bit 14 - spare																		
Bit 7 - spare	Bit 15 - spare																		
Loss of Function: Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.																			
Recommended Action:																			
Impact of Loss of Tlm: Reduced knowledge about REDMAN status. Manual switching will be needed.																			
Alternate Telemetry: CV queue. Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td></td> <td></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0														
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0																		

SCP TELEMETRY

F-1010	CE_DISCRETE		CDH			
Data Type: STATUS # Bits: 1 Start Bit: 0	Compool: CYCEXECPRESET FSW Name: CYCEXECDISCRETE Scale Factor: ns					
Packed bit array containing safemode enable flag. Most significant bit is safemode'enable. True = safemode enable. This bit is modified by SAFEMODE_DISABLE and SAFEMODE_ENABLE commands.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Confirmation of successful SafeMode_Enable/Disable command only by successful CV or by explicit MRO of FSW variable.						
Alternate Telemetry: CV Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = SAFE_DISABLE 1 = SAFE_ENABLED </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SAFE_DISABLE 1 = SAFE_ENABLED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SAFE_DISABLE 1 = SAFE_ENABLED				
F-1011	CE_GND_ENT_T		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: CYCEEXECPL FSW Name: GNDSTATEENTRYTIME Scale Factor: ns					
Spacecraft time at the time of entry into spacecraft states (1 idle, 2 IF TEST, 3 SELTS). This value is compared to current spacecraft time. If the timeout time is exceeded an autonomous spacecraft state change to flight will occur.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: No impact after launch.						
Alternate Telemetry: F-1016 (CE_SC_STATE) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1012	CE_GND_MAX_T	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: CYCEXECCPL FSW Name: MAXGNDSTATETIME Scale Factor: ns				
Maximum time allowed in a nonflight spacecraft state. A value of zero is interpreted as infinite maximum time. 0=forever					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: No impact after launch.					
Alternate Telemetry: F-1016 (CE_SC_STATE) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1013	CE_SCP10TIME	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: SCP10TIME Scale Factor: ns				
0.1 second timer used for task timing. Counter should increment once per IMU interrupt. 1 bit per second counted.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: F-1015 (CE_SCP_TIME) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1014	CE_SCPID		CDH
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: CYCEEXECPL FSW Name: SCPID Scale Factor: ns		
SCP Identification word. 0x1111 = SCP 1 0x2222 = SCP 2			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: EDF discrete tlm			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = INVALID 1 = SCP1 2 = SCP2	
F-1015	CE_SCPTIME		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: CYCEEXECPL FSW Name: SCPTIME Scale Factor: ns		
1 second timer used for ephemeris calculations and stored commanding. Counter should increment once per second. Counter is reset to EDF time upon SCP startup. 1 bit per second counted. Spacecraft time in seconds should always agree with EDF time code.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1016	CE_SC_STATE		CDH			
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: CYCEEXECPL FSW Name: SCSTATE Scale Factor: ns					
Operating state of spacecraft. Launched spacecraft should always read 4. Only valid states: 1=Idle 2=Interface Test 3=Self-Test 4=Flight (the only state after launch).						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: No impact after launch because FSW only permits Flight State post-liftoff.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> State Names: 0 = INVALID 1 = IDLE 2 = IF_TEST 3 = SELTS 4 = FLIGHT </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = INVALID 1 = IDLE 2 = IF_TEST 3 = SELTS 4 = FLIGHT
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = INVALID 1 = IDLE 2 = IF_TEST 3 = SELTS 4 = FLIGHT				
F-1017	CE_TASK_TOCT		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: CYCEEXECPL FSW Name: TASKTIMEOUTFCOUNT Scale Factor: ns					
Counter that is incremented by 958 every time a task timeout is detected. The counter is decremented by 1 whenever no task timeout exists. If the counter ever exceeds 2875, it is reset and the SCP will attempt to withhold its MEOOK signal.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: F-1092 (MEOOKWORD) bit 8. Can also dump Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1018	CE_TIME_DIFF		CDH			
Data Type: SIGNED # Bits: 32 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TIMEDIFF Scale Factor: ns					
Time difference between SCP and EDF (DIFF = SCP - EDF) in 1 second counts. Difference is calculated whenever subcom telemetry provides the EDF time. EDF time is received every 32 seconds.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of C&DH diagnostic info. Time errors will cause commanding errors.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 50%;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1019	CE_TOT_MSG_L		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: TOTALMSGSLOSTERRORS Scale Factor: ns					
Total amount of queue messages lost by all tasks since beginning of FSW execution.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: F-1166 (CE_TOT_Q_ERR) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 50%;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1020	CE_TOT_Q_ERR		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: CYCEEXECPL FSW Name: TOTALQUEUEERRORS Scale Factor: ns		
Total number of accumulated queue errors detected by the operating system. A queue error represents a task to task message lost by the system. Counter should increase approx once per 5 minutes. Good measure of SCP performance. 1 bit per count.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1021	CE_WAKEUPFI		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: CYCEEXECPL FSW Name: WAKEUPTASKFI COUNT Scale Factor: ns		
\$TBD\$			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1024	CIU_FLAGS		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD Scale Factor: ns		
Current value read from CIU Control PIB 2149. Bit description as per Hardware Description. Individual bit channels: F/N-1520 thru F/N-1535.			
Bit 0 - Two Hertz Sync Status Bit 1 - SSA 1 Status Bit 2 - SSA 2 Status Bit 3 - Quarter Hertz Sync Status Bit 4 - The Other SCP Control Status Bit 5 - This SCP Bus Status Bit 6 - EDF Side 1 MEOK Status Bit 7 - EDF Side 2 MEOK Status	Bit 8 - This SCP Control Status Bit 9 - MHSA Side 1 Status Bit 10 - MEOKs from This SCP Status Bit 11 - HEOKs from Other SCP Status Bit 12 - Bus Selected Status Bit 13 - Other SCP Contingency Mode Status Bit 14 - Mars Lock Status Bit 15 - Desired Bus Status		
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1026	CIX_FLAGS		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD Scale Factor: ns		
Current value read from CIX Control PIB 1149. Bit description as per Hardware Description. Individual bit channels: F/N-1540 thru F/N-1555.			
Bit 0 - CIX Echo Bit 1 - Spare Bit 2 - Spare Bit 3 - Spare Bit 4 - The Other SCP Control Status Bit 5 - This SCP Bus Status Bit 6 - spare Bit 7 - spare	Bit 8 - This SCP Control Status Bit 9 - spare Bit 10 - spare Bit 11 - spare Bit 12 - Bus Selected Status Bit 13 - spare Bit 14 - spare Bit 15 - Desired Bus Status		
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1030	CV_DATA_WORD		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: TELEMETRYCPL FSW Name: CVWORD Scale Factor: ns		
CV data from the CV queue. This word appears in the fast section of every SCP telemetry table (engineering, mission, emergency, safe). See CV message table in the Spacecraft Control Processor (SCP) User's Guide.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Degraded command verification/command problem analysis. Successful commanding not always verifiable.			
Alternate Telemetry: Various command counters and sometimes memory readout.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: ON CCL Param: 0		
F-1031	CV_Q_COUNT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: QUEUECPL FSW Name: CVQUEDESCRIPTOR Scale Factor: ns		
Number of words of CV messages awaiting transmission in CV telemetry.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1034	DEVDEAD_1		CDH																
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG Scale Factor: ns																		
RedMan device dead flags word 1. Contains 16 status flags of devices which have been declared dead by RedMan. Individual bit channels are F/N-1560 through F/N-1575.																			
<table> <tbody> <tr><td>Bit 0 - Bus</td><td>Bit 8 - XSU</td></tr> <tr><td>Bit 1 - Clock</td><td>Bit 9 - RPA</td></tr> <tr><td>Bit 2 - SSA</td><td>Bit 10 - MOT</td></tr> <tr><td>Bit 3 - RWA</td><td>Bit 11 - PSE</td></tr> <tr><td>Bit 4 - IMU</td><td>Bit 12 - SAP</td></tr> <tr><td>Bit 5 - Gyro</td><td>Bit 13 - HGA</td></tr> <tr><td>Bit 6 - DTC</td><td>Bit 14 - SAM</td></tr> <tr><td>Bit 7 - EDF</td><td>Bit 15 - Attitude Fault</td></tr> </tbody> </table>				Bit 0 - Bus	Bit 8 - XSU	Bit 1 - Clock	Bit 9 - RPA	Bit 2 - SSA	Bit 10 - MOT	Bit 3 - RWA	Bit 11 - PSE	Bit 4 - IMU	Bit 12 - SAP	Bit 5 - Gyro	Bit 13 - HGA	Bit 6 - DTC	Bit 14 - SAM	Bit 7 - EDF	Bit 15 - Attitude Fault
Bit 0 - Bus	Bit 8 - XSU																		
Bit 1 - Clock	Bit 9 - RPA																		
Bit 2 - SSA	Bit 10 - MOT																		
Bit 3 - RWA	Bit 11 - PSE																		
Bit 4 - IMU	Bit 12 - SAP																		
Bit 5 - Gyro	Bit 13 - HGA																		
Bit 6 - DTC	Bit 14 - SAM																		
Bit 7 - EDF	Bit 15 - Attitude Fault																		
Loss of Function: N/A																			
Recommended Action:																			
Impact of Loss of Tlm: Loss of visibility into Fault Protection activity.																			
Alternate Telemetry: Audit Queue.																			
Related Measurements:																			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0																		
F-1035	DEVDEAD_2		CDH																
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG Scale Factor: ns																		
RedMan device dead flags word 2. Contains 16 status flags of devices which have been declared dead by RedMan. Individual bit channels are F/N-1680 through F/N-1695.																			
<table> <tbody> <tr><td>Bit 0 - MHSA</td><td>Bit 8 - spare</td></tr> <tr><td>Bit 1 - CSA</td><td>Bit 9 - spare</td></tr> <tr><td>Bit 2 - TANK</td><td>Bit 10 - spare</td></tr> <tr><td>Bit 3 - REA</td><td>Bit 11 - spare</td></tr> <tr><td>Bit 4 - spare</td><td>Bit 12 - spare</td></tr> <tr><td>Bit 5 - spare</td><td>Bit 13 - spare</td></tr> <tr><td>Bit 6 - spare</td><td>Bit 14 - spare</td></tr> <tr><td>Bit 7 - spare</td><td>Bit 15 - spare</td></tr> </tbody> </table>				Bit 0 - MHSA	Bit 8 - spare	Bit 1 - CSA	Bit 9 - spare	Bit 2 - TANK	Bit 10 - spare	Bit 3 - REA	Bit 11 - spare	Bit 4 - spare	Bit 12 - spare	Bit 5 - spare	Bit 13 - spare	Bit 6 - spare	Bit 14 - spare	Bit 7 - spare	Bit 15 - spare
Bit 0 - MHSA	Bit 8 - spare																		
Bit 1 - CSA	Bit 9 - spare																		
Bit 2 - TANK	Bit 10 - spare																		
Bit 3 - REA	Bit 11 - spare																		
Bit 4 - spare	Bit 12 - spare																		
Bit 5 - spare	Bit 13 - spare																		
Bit 6 - spare	Bit 14 - spare																		
Bit 7 - spare	Bit 15 - spare																		
Loss of Function: N/A																			
Recommended Action:																			
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inop devices are not commanded.																			
Alternate Telemetry: Audit Queue.																			
Related Measurements:																			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0																		

SCP TELEMETRY

F-1040	EDF_ERROR_CT		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELEMETRYCPL FSW Name: EDFERRORCOUNT Scale Factor: ns					
Number of EDF errors reported to SCP in subcom telemetry packet.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of info for EDF analysis/diagnosis. EDF problems will require C&DH investigation.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1041	EDF_ERR_CNT1		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: SUBCOMCPL FSW Name: EDFERRORMATRIX Scale Factor: ns					
Cumulative number of type 1 errors detected by EDF.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Cannot discern total occurred and rate occurring of type 1 errors.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1042	EDF_ERR_CNT2		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: SUBCOMCPL FSW Name: EDFERRORMATRIX Scale Factor: ns		
Cumulative number of type 2 errors detected by EDF.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot discern total occurred and rate occurring of type 2 errors.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1043	EDF_ERR_MAT1		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: SUBCOMCPL FSW Name: EDFERRORMATRIX Scale Factor: ns		
EDF error matrix word 1:			
Bit 0* - CPU Memory Protection Fault Bit 1* - DMA Memory Protect Bit 2 - Parity Bit 3* - PIO Channel Parity Bit 4* - DMA ChanPar Bit 5* - Illegal I/O Cmd Bit 6* - PIO Transmission Bit 7 - ALOE from MEU	Bit 8 - Illegal Address Bit 9 - Illegal Instruction Bit 10 - Privileged Instr Fault Bit 11 - Addr State Bit 12 - Reserved Bit 13..15 Built-in TestFault (*) not used by hardware		
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of info for EDF analysis/diagnosis.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1044	EDF_ERR_MAT2		CDH																
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: SUBCOMCPL FSW Name: EDFERRORMATRIX Scale Factor: ns																		
EDF error matrix word 2: <table> <tr><td>Bit 0 - Power Down</td><td>Bit 8 - Single Bit Error</td></tr> <tr><td>Bit 1 - Analog Calibr Side 1 Point #1</td><td>Bit 9 - Analog Calibr Side 2 Point #1</td></tr> <tr><td>Bit 2 - Point #2</td><td>Bit 10 - Point #2</td></tr> <tr><td>Bit 3 - Point #3</td><td>Bit 11 - Point #3</td></tr> <tr><td>Bit 4 - Point #4</td><td>Bit 12 - Point #4</td></tr> <tr><td>Bit 5 - Calibration Current #1</td><td>Bit 13 - Calibration Current #2</td></tr> <tr><td>Bit 6 - Spare</td><td>Bit 14 - Spare</td></tr> <tr><td>Bit 7 - Spare</td><td>Bit 15 - Spare</td></tr> </table>				Bit 0 - Power Down	Bit 8 - Single Bit Error	Bit 1 - Analog Calibr Side 1 Point #1	Bit 9 - Analog Calibr Side 2 Point #1	Bit 2 - Point #2	Bit 10 - Point #2	Bit 3 - Point #3	Bit 11 - Point #3	Bit 4 - Point #4	Bit 12 - Point #4	Bit 5 - Calibration Current #1	Bit 13 - Calibration Current #2	Bit 6 - Spare	Bit 14 - Spare	Bit 7 - Spare	Bit 15 - Spare
Bit 0 - Power Down	Bit 8 - Single Bit Error																		
Bit 1 - Analog Calibr Side 1 Point #1	Bit 9 - Analog Calibr Side 2 Point #1																		
Bit 2 - Point #2	Bit 10 - Point #2																		
Bit 3 - Point #3	Bit 11 - Point #3																		
Bit 4 - Point #4	Bit 12 - Point #4																		
Bit 5 - Calibration Current #1	Bit 13 - Calibration Current #2																		
Bit 6 - Spare	Bit 14 - Spare																		
Bit 7 - Spare	Bit 15 - Spare																		
Loss of Function: N/A																			
Recommended Action:																			
Impact of Loss of Tlm: Loss of info for EDF analysis/diagnosis.																			
Alternate Telemetry: None																			
Related Measurements:																			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0																		
F-1045	EDF_FINISH		CDH																
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: EDFINITIALIZATIONSTARTTIME Scale Factor: ns																		
Time of EDF warm start, cold start, side switch, or power on. Second word of time tag.																			
Loss of Function: N/A																			
Recommended Action:																			
Impact of Loss of Tlm: None																			
Alternate Telemetry: Switch Summ and Audit Queue																			
Related Measurements:																			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0																		

SCP TELEMETRY

F-1046	EDF_INTER_CT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELEMETRYCPL FSW Name: EDFINTERRUPTCOUNT Scale Factor: ns		
Number of EDF interrupts that have occurred. There should be 1 EDF interrupt per second.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1047	EDF_PKT_0		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: QUEUECPL FSW Name: EDFSUBCOMPACKET Scale Factor: ns		
\$TBD\$			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1048	EDF_PKT_1		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: QUEUECPL FSW Name: EDFSUBCOMPACKET Scale Factor: ns					
\$TBD\$						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1049	EDF_SCLKTIME		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: SUBCOMCPL FSW Name: SPACECRAFTTIME Scale Factor: ns					
Spacecraft clock time from EDF. Update every 32 seconds.						
Loss of Function: If this function is lost it could result in to loss of TLM						
Recommended Action:						
Impact of Loss of Tlm: None (see Alt. Tlm.)						
Alternate Telemetry: Time Stamp appears at start of every 122-byte Tlm Seg Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1060	EIS_1BITERCT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: SEFISRCOUNTER Scale Factor: ns		
Count of the number of single bit error interrupts responded to by SCP.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1061	EIS_FIXPT_OF		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: FXOFISRCOUNTER Scale Factor: ns		
Number of Fixed Point Overflow Interrupt occurrences (should always be zero). Only needed if SCP performance is in question.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1062	EIS_FLTPT_OF		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: FLOFISR COUNTER Scale Factor: ns		
Count of the number of floating point overflow interrupts responded by SCP (should always be zero). Only needed if SCP performance is in question.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1063	EIS_FLTPT_UF		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: FLUFISR COUNTER Scale Factor: ns		
Number of Floating Point Underflow Interrupt occurrences (should always be zero). Only needed if SCP performance is in question.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1064	EIS_ILL_EXEC		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: ILLEXECCOUNTER Scale Factor: ns		
Number of Illegal Executive Call occurrences (should always be zero). Only needed if SCP performance is in question.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1065	EIS_ISR_TIMA		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: TIMAISR COUNTER Scale Factor: ns		
Count of the number of Timer A interrupts responded to by the SCP.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1066	EIS_LVL0_ERR		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: LVL0ISR COUNTER Scale Factor: ns		
Count of the number of level 0 interrupts responded to by the SCP.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1067	EIS_MACH_ERR		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: MERRISR COUNTER Scale Factor: ns		
Count of the number of machine error interrupts responded to by the SCP.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of SCP diagnostic info. Machine error would result into SCP withholding MEOK.			
Alternate Telemetry: dump Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1068	EIS_MER_PAGE		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: MERRPAGEADDRESS Scale Factor: ns		
Page ID of 4K block of memory where latest machine error occurred. 0-31 valid pages.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of SCP diagnostic info. SCP problems will require further investigation.			
Alternate Telemetry: Dump FSW Table "Machine' Error' Page' Table"			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1069	EIS_MER_PgOF		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: MERROFFSETADDRESS Scale Factor: ns		
Offset within 4K block referenced by EIS_MER_PAGE.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1070	EIS_RT_FAULT		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: RUNTIMEFAULTREGISTER Scale Factor: ns		
Contents of 1750A fault register when a machine error occurred. See SCP specification for detailed information.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None Machine Fault evident by SCP dead (except during MOI).			
Alternate Telemetry: Audit Queue or MRO "Runtime' Fault' Register"			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1071	EIS_SEF_ERRW		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: SEFERRORREGISTER Scale Factor: ns		
Content of internal SCP Error Word showing which bit position was affected by memory error.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of statistical info by bit #.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1072	EIS_SEF_PAGE		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: SEFPAGENUMBER Scale Factor: ns					
Page ID of 4K block of memory where the latest single bit memory error occurred. 0-31 valid pages.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of SCP diagnostic info. SCP problems will require further investigation.						
Alternate Telemetry: Dump FSW Table "SEF' Error' Page' Table" Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1073	EIS_SEF_PgOF		CDH			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: SEFOFFSETADDRESS Scale Factor: ns					
Offset within 4K block referenced by EIS_SEF_PAGE.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1074	EIS_SPR_INT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: ERRORINTSTATSCPL FSW Name: SPARISR'COUNTER Scale Factor: ns		
Count of the number of spare interrupts responded by the SCP.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1080	INT_CMDEX_CT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: CMDEXDATACPL FSW Name: INTERNALCMDSEXECUTEDCOUNT Scale Factor: ns		
Number of internally generated commands executed.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1081	INT_CMDRJ_CT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: CMDEXDATA CPL FSW Name: INTERNALCMDSREJECTEDCOUNT Scale Factor: ns		
Number of internally generated commands rejected by Execute Command.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1090	MCHK_ITTR_CT		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: MEMCHKCPL FSW Name: MEMCHKITERATIONS Scale Factor: ns		
Number of total memory check iterations.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1092	MEOK_WORD		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: MEOKINHIBITWORD Scale Factor: ns		
This word contains 16 bits describing the status of various SCP MEOK parameters.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No impact as long as SCP keeps MEOKing.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1094	MINISEQ_STAT		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: MINISEQCPL FSW Name: MINISEQSTATUS Scale Factor: ns		
Mini Sequence Status Word - Collection of dynamic Mini Sequence status bits and command executed count. Individual bit channels are F/N-1600 through F/N-1608. * This channel is available only in safe mode.			
Bit 0 - Mini Sequence Active Status Bit 1 - Mini Sequence Terminated due to Command Error Status Bit 2 - Mini Sequence Terminated due to Tag Error Status Bit 3 - Mini Sequence Terminated due to Word Count Error Status Bit 4 - Mini Sequence Terminated Normally at a Stop Tag Status Bits 8..15 - Cummulative number of commands successfully executed from Mini Sequence			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: CV in SafeMode			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1096	M_PHASE_BUFF		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: CIUCHECKINPUT Scale Factor: ns		
Current value read from the Mission Phase Buffer CIU Buffer 903. Contains states of mission phase relays and launch breakwires. Individual bit channels: F/N-1620 thru F/N-1633.			
Bit 0 - MGS Sep 1 Bit 1 - MP Relay 3 Bit 2 - POB Echo 1 Bit 3 - Spare Bit 4 - MGS Sep 2 Bit 5 - MGS Sep 3 Bit 6 - MP Relay 2 Bit 7 - POB Echo 2	Bit 8 - MP Relay 1 Bit 9 - Liftoff 1 Bit 10 - MGS Sep 4 Bit 11 - Liftoff 2 Bit 12 - POB Echo 3 Bit 13..15 - SCP ID		
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: EDF discrete tlm			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1100	PDS_INTER		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: SENDPDSCPL FSW Name: PDSTINTERRUPTCOUNT Scale Factor: ns		
Number of PDS SOB interrupts processed.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1101	PDS_SENT		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: SENDPDSCPL FSW Name: PDSMESSAGESSENTCOUNT Scale Factor: ns					
Number of messages successfully sent to the PDS.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: CV (real-time and script) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1102	PDS_SEQNO		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: SENDPDSCPL FSW Name: PDSSEQUENCENUMBER Scale Factor: ns					
Sequence number of the last message sent to the PDS. PDS receives low 8 bits only. Indicates number of PDS transfers initiated.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: CV (real-time and script) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1103	PDS_TMOUT_CT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: SENDPDSCPL FSW Name: PDSTIMEOUTCOUNT Scale Factor: ns		
Number of times a timeout occurred during transmission of a message from the SCP to the PDS.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No knowledge of PDS SOB problem.			
Alternate Telemetry: PDS output (its own cmd cntrs and overall behavior)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1104	PDS_TO_SEQNO		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: SENDPDSCPL FSW Name: PDSTIMEOUTSEQNUM Scale Factor: ns		
PDS sequence number of the last incomplete message.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of PDS diagnostic info. Further PDS investigation will be needed.			
Alternate Telemetry: PDS output (its own cmd cntrs and overall behavior)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1105	PDS_UNXMSGCT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: SENDPDSCL FSW Name: PDSUNEXPECTEDMSGTYPECOUNT Scale Factor: ns		
Number of times an unexpected message type was received by the SendPDS Task. Indicates an internal software error.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1110	POBimgCIU138		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(1) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIU 138 (HEX)			
Bit 0 - ME ON B Bit 1 - Veto Clock Selection Bit 2 - Not Implemented Bit 3 - Veto Bus Selection Bit 4 - Contingency Bit 5 - Mars Lock Bits 6...15 - Not Implemented			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1111	POBimgCIU21A		CDH			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(36) Scale Factor: ns					
Image of CIU/CIX Parallel Output Buffer (POB): CIU 21A (HEX).						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: Check CV to verify successful cmd exec Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-1112	POBimgCIU22A		CDH			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(37) Scale Factor: ns					
Image of CIU/CIX Parallel Output Buffer (POB): CIU 22A (HEX)						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: Check CV to verify successful cmd exec Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1113	POBimgCIU232		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(38) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIU 232 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1114	POBimgCIU234		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(39) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIU 234 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1115	POBimgCIU246		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(40) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIU 246 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1116	POBimgCIU24A		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(41) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIU 24A (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1117	POBimgCIU262		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(42) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIU 262 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1118	POBimgCIU292		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(43) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIU 292 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1119		POBimgCIU294	CDH			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(44) Scale Factor: ns					
Image of CIU/CIX Parallel Output Buffer (POB): CIU 294 (HEX)						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: Check CV to verify successful cmd exec Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-1120		POBimgCIU298	CDH			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(45) Scale Factor: ns					
Image of CIU/CIX Parallel Output Buffer (POB): CIU 298 (HEX)						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: Check CV to verify successful cmd exec Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1121	POBimgCIU2A2		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(46) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIU 2A2 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1122	POBimgCIUA12		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(47) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIU A12 (HEX).			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1123	POBimgCIUAA0		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(48) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIU AA0 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1124	POBimgCIUAC0		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(49) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIU AC0 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1130	POBimgCIX138		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(2) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB). CIX 138 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1131	POBimgCIX20E		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(3) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB). CIX 20E (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1132	POBimgCIX216		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(4) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB). CIX 216 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1133	POBimgCIX21C		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(5) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB). CIX 21C (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1134	POBimgCIX22C		CDH			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(6) Scale Factor: ns					
Image of CIU/CIX Parallel Output Buffer (POB). CIX 22C (HEX)						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: Check CV to verify successful cmd exec Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-1135	POBimgCIX232		CDH			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(7) Scale Factor: ns					
Image of CIU/CIX Parallel Output Buffer (POB). CIX 232 (HEX)						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: Check CV to verify successful cmd exec Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1136	POBimgCIX24C		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(8) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB). CIX 24C (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1137	POBimgCIX254		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(9) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB). CIX 254 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1138	POBimgCIX258		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(10) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB). CIX 258 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1139	POBimgCIX270		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(11) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB). CIX 270 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1140	POBimgCIX286		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(12) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB). CIX 286 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1141	POBimgCIX28A		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(13) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB). CIX 28A (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1142	POBimgCIX28C		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(14) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB). CIX 28C (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1143	POBimgCIX2A4		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(15) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX 2A4 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1144	POBimgCIX2A8		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(16) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX 2A8 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1145	POBimgCIX2C2		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(17) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX 2C2 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1146	POBimgCIX2C4		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(18) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX 2C4 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1147	POBimgCIX2C8		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(19) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX 2C8 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1148	POBimgCIXA06		CDH				
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(20) Scale Factor: ns						
Image of CIU/CIX Parallel Output Buffer (POB): CIX A06 (HEX)							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: None							
Alternate Telemetry: Check CV to verify successful cmd exec Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0						
F-1149	POBimgCIXA0A		CDH				
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(21) Scale Factor: ns						
Image of CIU/CIX Parallel Output Buffer (POB): CIX A0A (HEX)							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: None							
Alternate Telemetry: Check CV to verify successful cmd exec Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0						

SCP TELEMETRY

F-1150	POBimgCIXA0C		CDH			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(22) Scale Factor: ns					
Image of CIU/CIX Parallel Output Buffer (POB): CIX A0C (HEX)						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: Check CV to verify successful cmd exec Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-1151	POBimgCIXA14		CDH			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(23) Scale Factor: ns					
Image of CIU/CIX Parallel Output Buffer (POB): CIX A14 (HEX)						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: Check CV to verify successful cmd exec Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1152	POBimgCIXA18		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(24) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX A18 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1153	POBimgCIXA22		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(25) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX A22 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1154	POBimgCIXA24		CDH				
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(26) Scale Factor: ns						
Image of CIU/CIX Parallel Output Buffer (POB): CIX A24 (HEX)							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: None							
Alternate Telemetry: Check CV to verify successful cmd exec Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0						
F-1155	POBimgCIXA28		CDH				
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(27) Scale Factor: ns						
Image of CIU/CIX Parallel Output Buffer (POB): CIX A28 (HEX)							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: None							
Alternate Telemetry: Check CV to verify successful cmd exec Related Measurements: <table border="1"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0</td><td></td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0						

SCP TELEMETRY

F-1156	POBimgCIXA42		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(28) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX A42 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1157	POBimgCIXA44		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(29) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX A44 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1158	POBimgCIXA48		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(30) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX A48 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1159	POBimgCIXA60		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(31) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX A60 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1160	POBimgCIXA82		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(32) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX A82 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1161	POBimgCIXA84		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(33) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX A84 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1162	POBimgCIXA88		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(34) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX A88 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1163	POBimgCIXA90		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: BUFFERIMAGETABLECPL FSW Name: BUFFERIMAGE(35) Scale Factor: ns		
Image of CIU/CIX Parallel Output Buffer (POB): CIX A90 (HEX)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check CV to verify successful cmd exec			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1170	RDM_ABSNTDAT		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: ERRORDATA\ABSENTCOUNT Scale Factor: ns					
Counts number of times (in control SCP) that RedMan was posted with an error type that requires additional data in the message but there was none. This variable should always be zero.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1171	RDM_AUTENSCP		CDH			
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: AUTOSCPSWITCHENABLE Scale Factor: ns					
Indicates whether REDMAN is enabled or disabled to autonomously switch SCPs (and enter Safe Mode). This is overridden only by the Safe Mode Disable feature.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Successful verify of RED_AUTO_SCP_SWITCH_ENBL/DSBL by CV or MRO of FSW variable						
Alternate Telemetry: CV Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = DISABLE 1 = ENABLE </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLE 1 = ENABLE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLE 1 = ENABLE				

SCP TELEMETRY

F-1172	RDM_BADMSGCT	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMSGBADTYPECOUNT Scale Factor: ns				
Counts number of bad message types received by RedMan via QueGet. Value should always be zero.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1180	RDM_CE_CT_20	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(20) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #20.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1181	RDM_CE_CT_21	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(21) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #21.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1182	RDM_CE_CT_22	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(22) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #22.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1183	RDM_CE_CT_23	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(23) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #23.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1184	RDM_CE_CT_24	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(24) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #24.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1185	RDM_CE_CT_25	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(25) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #25.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1186	RDM_CE_CT_26	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(26) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #26.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1187	RDM_CE_CT_27	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(27) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #27.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1188	RDM_CE_CT_28	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(28) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #28.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1189	RDM_CE_CT_29	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(29) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #29.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1190	RDM_CE_CT_30	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(30) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #30.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1191	RDM_CE_CT_31	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(31) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #31.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1192	RDM_CE_CT_32	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(32) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #32.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1193	RDM_CE_CT_33	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(33) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #33.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1194	RDM_CE_CT_34	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(34) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #34.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1195	RDM_CE_CT_35	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(35) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #35.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1196	RDM_CE_CT_36	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(36) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #36.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1197	RDM_CE_CT_37	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(37) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #37.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1198	RDM_CE_CT_38	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(38) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #38.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1199	RDM_CE_CT_39	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(39) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #39.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1200	RDM_CE_CT_40	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(40) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #40.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1201	RDM_CE_CT_41	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(41) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #41.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1202	RDM_CE_CT_42	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(42) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #42.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1203	RDM_CE_CT_43		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(43) Scale Factor: ns					
Current consecutive occurrence count for RedMan error type #43.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.						
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1204	RDM_CE_CT_44		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(44) Scale Factor: ns					
Current consecutive occurrence count for RedMan error type #44.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.						
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1205	RDM_CE_CT_45	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(45) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #45.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1206	RDM_CE_CT_46	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(46) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #46.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1207	RDM_CE_CT_47	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(47) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #47.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1208	RDM_CE_CT_48	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(48) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #48.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1209	RDM_CE_CT_49	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(49) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #49.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1210	RDM_CE_CT_50	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(50) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #50.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1211	RDM_CE_CT_51	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(51) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #51.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1212	RDM_CE_CT_52	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(52) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #52.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1213	RDM_CE_CT_53	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(53) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #53.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1214	RDM_CE_CT_54	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(54) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #54.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1215	RDM_CE_CT_55	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(55) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #55.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1216	RDM_CE_CT_56	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(56) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #56.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status. Less info for REDMAN decision-making.					
Alternate Telemetry: Check Audit Queue telemetry Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1217	RDM_CE_CT_57	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(57) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #57.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1218	RDM_CE_CT_58	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(58) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #58.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1219	RDM_CE_CT_59	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(59) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #59.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1220	RDM_CE_CT_60	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(60) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #60.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1221	RDM_CE_CT_61	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(61) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #61.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1222	RDM_CE_CT_62	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(62) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #62.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1223	RDM_CE_CT_63		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(63) Scale Factor: ns		
Current consecutive occurrence count for RedMan error type #63.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1224	RDM_CE_CT_64		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(64) Scale Factor: ns		
Current consecutive occurrence count for RedMan error type #64.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1225	RDM_CE_CT_65	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(65) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #65.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1226	RDM_CE_CT_66	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(66) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #66.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1227	RDM_CE_CT_67	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(67) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #67.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1228	RDM_CE_CT_68	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(68) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #68.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1229	RDM_CE_CT_69	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(69) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #69.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Reduced info about REDMAN status.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1230	RDM_CE_CT_70	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(70) Scale Factor: ns				
Current consecutive occurrence count for RedMan error type #70.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Verify (DIS)ARM_CONTIN_MODE by CV or MRO of FSW variable					
Alternate Telemetry: CV Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1231	RDM_CE_CT_71		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(71) Scale Factor: ns		
Current consecutive occurrence count for RedMan error type #71.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1232	RDM_CE_CT_72		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(72) Scale Factor: ns		
Current consecutive occurrence count for RedMan error type #72.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1233	RDM_CE_CT_73		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(73) Scale Factor: ns		
Current consecutive occurrence count for RedMan error type #73.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1234	RDM_CE_CT_74		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: CONSECERRORCOUNT(74) Scale Factor: ns		
Current consecutive occurrence count for RedMan error type #74.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1236	RDM_CONTMODE		CDH
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: SMOEXECPL FSW Name: CONTMODEFLAGS Scale Factor: ns		
Contingency mode armed status. 0=Disarmed 1=Armed			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No contingency and telemetry.			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISARMED 1 = ARMED	
F-1237	RDM_DEV_CFG1		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO Scale Factor: ns		
Packed RedMan device configuration word 1.			
Bit 0 - Current SSA Side Bit 8 - Current MHSA Side Bit 1 - Current RPA Side Bit 9 - spare bit Bit 2 - Current EDF Side Bit 10 - spare bit Bit 3 - Current XSU Side Bit 11 - spare bit Bit 4 - Current PSE Side Bit 12 - spare bit Bit 5 - Current SAP Side Bit 13 - spare bit Bit 6 - Current SAM Side Bit 14 - spare bit Bit 7 - Current HGA Side Bit 15 - spare bit			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1238	RDM_DEV_CFG2		AACS
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO Scale Factor: ns		
Packed RedMan device configuration word 2. Bit 0..2 - Original Channel Config Bit 3..6 - Original RWA Config Bit 7 - Freeze RWA Config Bit 8..9 - Current REA Side Bit 10..16 spare bits			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-1240	RDM_EDFonTIM		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: EDFINITIALIZATIONSTARTTIME Scale Factor: ns		
Recorded "SCP'10'Time" of most recent EDF warm/cold start or power-on.			
Loss of Function: None			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Check Audit Queue. Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1250	RDM_GMSWREN	CDH			
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: GYROSHORTRECOVERYENABLE Scale Factor: ns				
Indicates enable status of gyro winding short-circuit recovery. 0x0000 = Disabled altogether. 0x0001 = Enabled for MOI. 0x0002 = Enabled for Nominal.					
Loss of Function: Loss of gyros means end of mission.					
Recommended Action:					
Impact of Loss of Tlm: For RedMan cmds that affect this item, verify execution by CV or MRO of this item in FSW					
Alternate Telemetry: CV Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> State Names: 0 = DISABLED 1 = ENABLED_MOI 2 = ENABLED_NOM </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED_MOI 2 = ENABLED_NOM
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED_MOI 2 = ENABLED_NOM			
F-1251	RDM_GMWSRST	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: GYROSHORTRECOVERYSTARTTIME Scale Factor: ns				
Start time when RedMan initiates gyro motor winding short-circuit recovery procedure.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Check Audit Queue. Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1252	RDM_GYRONTIM		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: GYROPOWERONTIME Scale Factor: ns					
Most recent time when a gyro was powered on by RedMan.						
Loss of Function: None						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: Audit Queue (for auto action) and CV (for commanded action) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1253	RDM_GYROPWSH		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: GYROPOWERONTIME Scale Factor: ns					
Time at which RedMan powers on gyros during short recovery.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1254	RDM_GYRORCSH		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: GYROSHORTRECOVERYSTARTTIME Scale Factor: ns		\$TBD\$			
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1255	RDM_GYRO_CNF		CDH			
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: ORIGINALCHANNELCONFIG Scale Factor: ns					
This is the ground-commanded (or "preferred") gyro channel selection.						
Loss of Function: None						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: Audit Queue (for auto action) and CV (for commanded action) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = X3_Y2_Z3 1 = X3_Y2_Z2 2 = X1_Y2_Z3 3 = X1_Y2_Z2 4 = X3_Y1_Z3 5 = X3_Y1_Z2 6 = X1_Y1_Z3 7 = X1_Y1_Z2 </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = X3_Y2_Z3 1 = X3_Y2_Z2 2 = X1_Y2_Z3 3 = X1_Y2_Z2 4 = X3_Y1_Z3 5 = X3_Y1_Z2 6 = X1_Y1_Z3 7 = X1_Y1_Z2
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = X3_Y2_Z3 1 = X3_Y2_Z2 2 = X1_Y2_Z3 3 = X1_Y2_Z2 4 = X3_Y1_Z3 5 = X3_Y1_Z2 6 = X1_Y1_Z3 7 = X1_Y1_Z2				

SCP TELEMETRY

F-1256	RDM_GYscPHSE	CDH
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: GYROSHORTRECOVERYPHASE Scale Factor: ns	
Current phase of gyro recovery procedure. 0 = Disabled 1 = Simple Method Enabled 2 = Longer Method Enabled		
Loss of Function: Loss of gyros mean end of mission.		
Recommended Action:		
Impact of Loss of Tlm: None		
Alternate Telemetry: Audit Queue		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = INACTIVE 1 = GY123OFF_1st 2 = GY3OFF_12ON 3 = CHCK_GY12_OK 4 = GY123OFF_2nd 5 = GY2OFF_13ON 6 = CHCK_GY13_OK 7 = GY123OFF_3rd 8 = SHUT_OFF_GY3 9 = SHUT_OFF_GY2 10 = INVALID 11 = INVALID 12 = INVALID 13 = INVALID 14 = INVALID 15 = INVALID
F-1260	RDM_IMURCOVT	CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: MISSEDIMUNTRCVRYSTARTTIME Scale Factor: ns	
Start time when RedMan initiates missing IMU interrupt recovery procedure.		
Loss of Function: None		
Recommended Action:		
Impact of Loss of Tlm: None		
Alternate Telemetry: Audit Queue		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	

SCP TELEMETRY

F-1261	RDM_IMUTWMIS	CDH																
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: MISSEDIMUINTRCVRYSTARTTIME Scale Factor: ns																	
Represents time word of missed IMU interrupt.																		
Loss of Function: N/A																		
Recommended Action:																		
Impact of Loss of Tlm: None																		
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0														
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0																	
F-1262	RDM_IMU_STAT	CDH																
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: EXPECTEDIMUSTATUSWORD Scale Factor: ns																	
Expected IMU status word value reflecting RedMans's opinion of current IMU configuration.																		
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Bit 0 - DC Supply Status</td><td style="width: 50%;">Bit 8 - Gyro/Accel Format Status</td></tr> <tr> <td>Bit 1 - AC Supply Status</td><td>Bit 9 - +GY1/+GY2 Select Status</td></tr> <tr> <td>Bit 2 - CSA Fan B Power Status</td><td>Bit 10 - -GX1/-GX3 Select Status</td></tr> <tr> <td>Bit 3 - CSA Fan A Power Status</td><td>Bit 11 - -GZ2/-GZ3 Select Status</td></tr> <tr> <td>Bit 4 - CSA Test Status</td><td>Bit 12 - Logic Side Status</td></tr> <tr> <td>Bit 5 - Rate Status</td><td>Bit 13 - Gyro 3 Power Status</td></tr> <tr> <td>Bit 6 - spare</td><td>Bit 14 - Gyro 2 Power Status</td></tr> <tr> <td>Bit 7 - spare</td><td>Bit 15 - Gyro 1 Power Status</td></tr> </table>			Bit 0 - DC Supply Status	Bit 8 - Gyro/Accel Format Status	Bit 1 - AC Supply Status	Bit 9 - +GY1/+GY2 Select Status	Bit 2 - CSA Fan B Power Status	Bit 10 - -GX1/-GX3 Select Status	Bit 3 - CSA Fan A Power Status	Bit 11 - -GZ2/-GZ3 Select Status	Bit 4 - CSA Test Status	Bit 12 - Logic Side Status	Bit 5 - Rate Status	Bit 13 - Gyro 3 Power Status	Bit 6 - spare	Bit 14 - Gyro 2 Power Status	Bit 7 - spare	Bit 15 - Gyro 1 Power Status
Bit 0 - DC Supply Status	Bit 8 - Gyro/Accel Format Status																	
Bit 1 - AC Supply Status	Bit 9 - +GY1/+GY2 Select Status																	
Bit 2 - CSA Fan B Power Status	Bit 10 - -GX1/-GX3 Select Status																	
Bit 3 - CSA Fan A Power Status	Bit 11 - -GZ2/-GZ3 Select Status																	
Bit 4 - CSA Test Status	Bit 12 - Logic Side Status																	
Bit 5 - Rate Status	Bit 13 - Gyro 3 Power Status																	
Bit 6 - spare	Bit 14 - Gyro 2 Power Status																	
Bit 7 - spare	Bit 15 - Gyro 1 Power Status																	
Loss of Function: N/A																		
Recommended Action:																		
Impact of Loss of Tlm: Ops cannot tell if RedMan altered IMU config until dumping Audit Queue																		
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0														
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0																	

SCP TELEMETRY

F-1270	RDM_LETIME20		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(20) Scale Factor: ns					
Time of latest occurrence of RedMan error type #20.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.						
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td> <td style="padding: 2px; vertical-align: top;">Conversion Type: OFF CCL Process: OFF CCL Param: 0</td> <td style="width: 50%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1271	RDM_LETIME21		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(21) Scale Factor: ns					
Time of latest occurrence of RedMan error type #21.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.						
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td> <td style="padding: 2px; vertical-align: top;">Conversion Type: OFF CCL Process: OFF CCL Param: 0</td> <td style="width: 50%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1272	RDM_LETIME22	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(22) Scale Factor: ns				
Time of latest occurrence of RedMan error type #22.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1273	RDM_LETIME23	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(23) Scale Factor: ns				
Time of latest occurrence of RedMan error type #23.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1274	RDM_LETIME24		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(24) Scale Factor: ns		
Time of latest occurrence of RedMan error type #24.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1275	RDM_LETIME25		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(25) Scale Factor: ns		
Time of latest occurrence of RedMan error type #25.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1276	RDM_LETIME26		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(26) Scale Factor: ns		
Time of latest occurrence of RedMan error type #26.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1277	RDM_LETIME27		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(27) Scale Factor: ns		
Time of latest occurrence of RedMan error type #27.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1278	RDM_LETIME28		CDH																											
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(28) Scale Factor: ns																													
Time of latest occurrence of RedMan error type #28.																														
Loss of Function: N/A																														
Recommended Action:																														
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.																														
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Time Type: ERT</td> <td style="padding: 2px;">Conversion Type: OFF</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">Test Type: DN</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">Red Alarm Type: OFF</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;"> </td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">Red Alarm Lo:</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">Red Alarm Hi:</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;"> </td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">In Hysteresis: 0</td> <td style="padding: 2px;">CCL Process: OFF</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">Out Hysteresis: 0</td> <td style="padding: 2px;">CCL Param: 0</td> <td style="padding: 2px;"></td> </tr> </table>				Time Type: ERT	Conversion Type: OFF		Test Type: DN			Red Alarm Type: OFF						Red Alarm Lo:			Red Alarm Hi:						In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: OFF																													
Test Type: DN																														
Red Alarm Type: OFF																														
Red Alarm Lo:																														
Red Alarm Hi:																														
In Hysteresis: 0	CCL Process: OFF																													
Out Hysteresis: 0	CCL Param: 0																													
F-1279	RDM_LETIME29		CDH																											
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(29) Scale Factor: ns																													
Time of latest occurrence of RedMan error type #29.																														
Loss of Function: N/A																														
Recommended Action:																														
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.																														
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Time Type: ERT</td> <td style="padding: 2px;">Conversion Type: OFF</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">Test Type: DN</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">Red Alarm Type: OFF</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;"> </td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">Red Alarm Lo:</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">Red Alarm Hi:</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;"> </td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">In Hysteresis: 0</td> <td style="padding: 2px;">CCL Process: OFF</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">Out Hysteresis: 0</td> <td style="padding: 2px;">CCL Param: 0</td> <td style="padding: 2px;"></td> </tr> </table>				Time Type: ERT	Conversion Type: OFF		Test Type: DN			Red Alarm Type: OFF						Red Alarm Lo:			Red Alarm Hi:						In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: OFF																													
Test Type: DN																														
Red Alarm Type: OFF																														
Red Alarm Lo:																														
Red Alarm Hi:																														
In Hysteresis: 0	CCL Process: OFF																													
Out Hysteresis: 0	CCL Param: 0																													

SCP TELEMETRY

F-1280	RDM_LETIME30		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(30) Scale Factor: ns					
Time of latest occurrence of RedMan error type #30.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.						
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td> <td style="padding: 2px; vertical-align: top;">Conversion Type: OFF CCL Process: OFF CCL Param: 0</td> <td style="width: 50%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1281	RDM_LETIME31		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(31) Scale Factor: ns					
Time of latest occurrence of RedMan error type #31.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.						
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td> <td style="padding: 2px; vertical-align: top;">Conversion Type: OFF CCL Process: OFF CCL Param: 0</td> <td style="width: 50%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1282	RDM_LETIME32		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(32) Scale Factor: ns		
Time of latest occurrence of RedMan error type #32.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1283	RDM_LETIME33		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(33) Scale Factor: ns		
Time of latest occurrence of RedMan error type #33.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1284	RDM_LETIME34		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(34) Scale Factor: ns					
Time of latest occurrence of RedMan error type #34.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.						
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1285	RDM_LETIME35		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(35) Scale Factor: ns					
Time of latest occurrence of RedMan error type #35.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.						
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1286	RDM_LETIME36		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(36) Scale Factor: ns		
Time of latest occurrence of RedMan error type #36.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1287	RDM_LETIME37		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(37) Scale Factor: ns		
Time of latest occurrence of RedMan error type #37.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1288	RDM_LETIME38	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(38) Scale Factor: ns				
Time of latest occurrence of RedMan error type #38.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1289	RDM_LETIME39	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(39) Scale Factor: ns				
Time of latest occurrence of RedMan error type #39.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1290	RDM_LETIME40		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(40) Scale Factor: ns		
Time of latest occurrence of RedMan error type #40.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1291	RDM_LETIME41		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(41) Scale Factor: ns		
Time of latest occurrence of RedMan error type #41.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1292	RDM_LETIME42	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(42) Scale Factor: ns				
Time of latest occurrence of RedMan error type #42.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1293	RDM_LETIME43	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(43) Scale Factor: ns				
Time of latest occurrence of RedMan error type #43.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1294	RDM_LETIME44	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(44) Scale Factor: ns				
Time of latest occurrence of RedMan error type #44.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1295	RDM_LETIME45	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(45) Scale Factor: ns				
Time of latest occurrence of RedMan error type #45.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1296	RDM_LETIME46	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(46) Scale Factor: ns				
Time of latest occurrence of RedMan error type #46.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1297	RDM_LETIME47	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(47) Scale Factor: ns				
Time of latest occurrence of RedMan error type #47.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1298	RDM_LETIME48		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(48) Scale Factor: ns		
Time of latest occurrence of RedMan error type #48.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1299	RDM_LETIME49		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(49) Scale Factor: ns		
Time of latest occurrence of RedMan error type #49.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1300	RDM_LETIME50		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(50) Scale Factor: ns		
Time of latest occurrence of RedMan error type #50.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1301	RDM_LETIME51		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(51) Scale Factor: ns		
Time of latest occurrence of RedMan error type #51.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1302	RDM_LETIME52	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(52) Scale Factor: ns				
Time of latest occurrence of RedMan error type #52.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1303	RDM_LETIME53	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(53) Scale Factor: ns				
Time of latest occurrence of RedMan error type #53.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1304	RDM_LETIME54		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(54) Scale Factor: ns		
Time of latest occurrence of RedMan error type #54.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1305	RDM_LETIME55		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(55) Scale Factor: ns		
Time of latest occurrence of RedMan error type #55.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1306	RDM_LETIME56		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(56) Scale Factor: ns		
Time of latest occurrence of RedMan error type #56.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1307	RDM_LETIME57		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(57) Scale Factor: ns		
Time of latest occurrence of RedMan error type #57.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1308	RDM_LETIME58		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(58) Scale Factor: ns					
Time of latest occurrence of RedMan error type #58.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.						
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td> <td style="padding: 2px; vertical-align: top;">Conversion Type: OFF CCL Process: OFF CCL Param: 0</td> <td style="width: 50%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1309	RDM_LETIME59		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(59) Scale Factor: ns					
Time of latest occurrence of RedMan error type #59.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.						
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0</td> <td style="padding: 2px; vertical-align: top;">Conversion Type: OFF CCL Process: OFF CCL Param: 0</td> <td style="width: 50%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1310	RDM_LETIME60		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(60) Scale Factor: ns					
Time of latest occurrence of RedMan error type #60.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.						
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1311	RDM_LETIME61		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(61) Scale Factor: ns					
Time of latest occurrence of RedMan error type #61.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.						
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1312	RDM_LETIME62	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(62) Scale Factor: ns				
Time of latest occurrence of RedMan error type #62.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1313	RDM_LETIME63	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(63) Scale Factor: ns				
Time of latest occurrence of RedMan error type #63.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1314	RDM_LETIME64		CDH																											
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(64) Scale Factor: ns																													
Time of latest occurrence of RedMan error type #64.																														
Loss of Function: N/A																														
Recommended Action:																														
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.																														
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Time Type: ERT</td> <td style="padding: 2px;">Conversion Type: OFF</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">Test Type: DN</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">Red Alarm Type: OFF</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;"> </td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">Red Alarm Lo:</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">Red Alarm Hi:</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;"> </td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">In Hysteresis: 0</td> <td style="padding: 2px;">CCL Process: OFF</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">Out Hysteresis: 0</td> <td style="padding: 2px;">CCL Param: 0</td> <td style="padding: 2px;"></td> </tr> </table>				Time Type: ERT	Conversion Type: OFF		Test Type: DN			Red Alarm Type: OFF						Red Alarm Lo:			Red Alarm Hi:						In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: OFF																													
Test Type: DN																														
Red Alarm Type: OFF																														
Red Alarm Lo:																														
Red Alarm Hi:																														
In Hysteresis: 0	CCL Process: OFF																													
Out Hysteresis: 0	CCL Param: 0																													
F-1315	RDM_LETIME65		CDH																											
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(65) Scale Factor: ns																													
Time of latest occurrence of RedMan error type #65.																														
Loss of Function: N/A																														
Recommended Action:																														
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.																														
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Time Type: ERT</td> <td style="padding: 2px;">Conversion Type: OFF</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">Test Type: DN</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">Red Alarm Type: OFF</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;"> </td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">Red Alarm Lo:</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">Red Alarm Hi:</td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;"> </td> <td></td> <td></td> </tr> <tr> <td style="padding: 2px;">In Hysteresis: 0</td> <td style="padding: 2px;">CCL Process: OFF</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">Out Hysteresis: 0</td> <td style="padding: 2px;">CCL Param: 0</td> <td style="padding: 2px;"></td> </tr> </table>				Time Type: ERT	Conversion Type: OFF		Test Type: DN			Red Alarm Type: OFF						Red Alarm Lo:			Red Alarm Hi:						In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: OFF																													
Test Type: DN																														
Red Alarm Type: OFF																														
Red Alarm Lo:																														
Red Alarm Hi:																														
In Hysteresis: 0	CCL Process: OFF																													
Out Hysteresis: 0	CCL Param: 0																													

SCP TELEMETRY

F-1316	RDM_LETIME66		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(66) Scale Factor: ns		
Time of latest occurrence of RedMan error type #66.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1317	RDM_LETIME67		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(67) Scale Factor: ns		
Time of latest occurrence of RedMan error type #67.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1318	RDM_LETIME68	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(68) Scale Factor: ns				
Time of latest occurrence of RedMan error type #68.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1319	RDM_LETIME69	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(69) Scale Factor: ns				
Time of latest occurrence of RedMan error type #69.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1320	RDM_LETIME70	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(70) Scale Factor: ns				
Time of latest occurrence of RedMan error type #70.					
Loss of Function: None					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1321	RDM_LETIME71	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(71) Scale Factor: ns				
Time of latest occurrence of RedMan error type #71.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1322	RDM_LETIME72	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(72) Scale Factor: ns				
Time of latest occurrence of RedMan error type #72.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1323	RDM_LETIME73	CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERERROR(73) Scale Factor: ns				
Time of latest occurrence of RedMan error type #73.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1324	RDM_LETIME74		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: REDMANCPL FSW Name: TIMEOFLASTERRO(74) Scale Factor: ns					
Time of latest occurrence of RedMan error type #74.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of information used in REDMAN processing. Message history will be lost.						
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1328	RDM_NEEDDATA		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: FOLLOWUPREQDATA\COUNT Scale Factor: ns					
Counts occurrences that RedMan encountered a follow-up error type which required additional data but not available. This telemetry variable should always be zero.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Lack of REDMAN diagnostic info.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1330	RDM_RWA_CNFG		CDH
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: ORIGINALRWACONFIG Scale Factor: ns		
Indicates original RWA configuration. 0x0000 = None 0x0008 = X 0x0001 = S 0x0009 = XS 0x0002 = Z 0x000A = XZ 0x0003 = ZS 0x000B = XZS 0x0004 = Y 0x000C = XY 0x0005 = YS 0x000D = XYS 0x0006 = YZ 0x000E = XYZ 0x0007 = YZS 0x000F = XYZS			
Loss of Function: Loss of RWA means end of mission.			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: CV			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = INVALID 1 = S 2 = Z 3 = ZS 4 = Y 5 = YS 6 = YZ 7 = YZS	8 = X 9 = XS 10 = XZ 10 = XZS 12 = XY 13 = XYS 14 = XYZ 15 = XYZS
F-1331	RDM_RWA_FREZ		CDH
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: FREEZERWACONFIG Scale Factor: ns		
Indicates whether or not RedMan is allowed to alter the current RWA configuration other than commanded/preferred configuration. 0 - Dynamic 1 - Static			
Loss of Function: None			
Recommended Action:			
Impact of Loss of Tlm: Verify successful exec of USE_WHEEL and FAIL_WHEEL cmds by CV or MRO of FSW variable			
Alternate Telemetry: CV			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DYNAMIC 1 = STATIC	

SCP TELEMETRY

F-1339	RDM_SIDE_RPA	CDH
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: CURRENTRPASIDE Scale Factor: ns	
RedMan's opinion of which RPA side is currently on.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Operational side of RPA not obvious. Loss of REDMAN information.		
Alternate Telemetry: Audit Queue and uplink history.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B
F-1340	RDM_SIDE_EDF	CDH
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: CURRENTEDFSIDE Scale Factor: ns	
RedMan's opinion of which EDF side is currently on.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: No knowledge of currently-selected side.		
Alternate Telemetry: CV and Audit Queue and CIU flags PIB 2149		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B

SCP TELEMETRY

F-1341	RDM_SIDE_HGA	CDH
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: CURRENTHGASIDE Scale Factor: ns	
RedMan internal record of currently selected HGA GDE side. Logic 0 = side A Logic 1 = side B		
Loss of Function: None		
Recommended Action:		
Impact of Loss of Tlm: No knowledge of currently-selected side.		
Alternate Telemetry: CV and Audit Queue and GDE status word read every 2Hz		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B
F-1342	RDM_SIDE_MHS	CDH
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: CURRENTMHSASIDE Scale Factor: ns	
RedMan's opinion of which MHSA side is currently selected. 0 = Side A 1 = Side B		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: No knowledge of currently-selected side.		
Alternate Telemetry: CV and Audit Queue and CIU flag PIB 2149		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B

SCP TELEMETRY

F-1343	RDM_SIDE_PSE	CDH
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: CURRENTPSESIDE Scale Factor: ns	
Redman's opinion of which PSE side is currently selected. Logic 0 = Side A, Logic 1 = Side B		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: No knowledge of currently-selected side.		
Alternate Telemetry: CV and Audit Queue and EDF-to-SCP subcom		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B
F-1344	RDM_SIDE_SAM	CDH
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: CURRENTSAMSIDESIDE Scale Factor: ns	
Redman internal record of currently selected -Y solar array GDE side. Logic 0 = side A Logic 1 = side B		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: No knowledge of currently-selected side.		
Alternate Telemetry: CV and Audit Queue and GDE status word read every 2Hz		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B

SCP TELEMETRY

F-1345	RDM_SIDE_SAP	CDH
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: CURRENTSAPSIDE Scale Factor: ns	
Redman internal record of currently selected +Y solar array GDE side. Logic 0 = side A Logic 1 = side B		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: No knowledge of currently-selected side.		
Alternate Telemetry: CV and Audit Queue and GDE status word read every 2Hz		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B
F-1346	RDM_SIDE_SSA	CDH
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: CURRENTSSASIDE Scale Factor: ns	
Redman internal record of currently selected SSA side. Logic 0 = side A Logic 1 = side B		
Loss of Function: Loss of SSA.		
Recommended Action:		
Impact of Loss of Tlm: No knowledge of currently-selected side.		
Alternate Telemetry: CV and Audit Queue and CIU flag PIB 2149		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B

SCP TELEMETRY

F-1347	RDM_SIDE_XSU	CDH			
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: REDMANCPL FSW Name: CURRENTXSUSIDE Scale Factor: ns				
Redman internal record of currently selected XSU side. Logic 0 = side A Logic 1 = side B					
Loss of Function: Loss of XSU leads to downlink problems.					
Recommended Action:					
Impact of Loss of Tlm: No knowledge of currently-selected side.					
Alternate Telemetry: CV and Audit Queue and "Telecom Discretes" Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> State Names: 0 = SIDE_A 1 = SIDE_B </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B			
F-1348	RDMN_SW_SUM1	CDH			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: SWITCHSUMMARY Scale Factor: ns				
This word contains 16 bits describing the status of various RedMan Switches (RedMan Switch Summary Word 1). Individual bit channels F/N-1640 through F/N-1655. (Note, Bits 11 thru 15 differ between Normal Mode and Safe Mode.)					
Bit 0 - Switched'Buses Bit 1 - Switched'SSA'Sides Bit 2 - Switched'IMU'Sides Bit 3 - Switched'EDF'Sides Bit 4 - Switched'XSU'Sides Bit 5 - Switched'RPA'Sides Bit 6 - Switched'MOT'Sides Bit 7 - Switched'PSE'Sides Bit 8 - Switched'SAP'Sides Bit 9 - Switched'SAM'Sides Bit 10 - Switched'HGA'Sides Bit 11 - Switched'MHSA'Sides (for safe mode "Spare") Bit 12 - Changed'RWA'Config (for safe mode "Warm Start") Bit 13 - EDF'Warm/Start'Prevented (for safe mode "Cold Start") Bit 14 - EDF'Cold/Start'Prevented (for safe mode "Control Fault") Bit 15 - AAC'SChannel'Switch (for safe mode "Spare")					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1349	RDMN_SW_SUM2	CDH			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: SWITCHSUMMARY Scale Factor: ns				
This word contains 16 bits describing the status of various RedMan Switches (RedMan Switch Summary Word 2). Individual bit channels F/N-1700 through F/N-1715.					
Bit 0 - Tank'OP1'Last'Option Bit 1 - spare Bit 2 - Tank'OP2'Last'Option Bit 3 - spare Bit 4 - Tank'UPL'Last'Option Bit 5 - Switched'To'REA'Control Bit 6 - Switched'To'Sun'Acq Bit 7 - REA'Channel'Switch Bit 8 - REA'String'1'Isolated Bit 9 - REA'String'2'Isolated Bit 10 - TWTATFil'Monitor'Enable Bit 11 - spare Bit 12 - spare Bit 13 - spare Bit 14 - spare Bit 15 - spare					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0				
F-1350	RDM_TE_CT_20	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(20) Scale Factor: ns				
Total occurrence count for RedMan error type #20 (RED'DA'INT).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1351	RDM_TE_CT_21	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(21) Scale Factor: ns				
Total occurrence count for RedMan error type #21 (RED'CIU'NOTOK).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1352	RDM_TE_CT_22	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(22) Scale Factor: ns				
Total occurrence count for RedMan error type #22 (RED'CIX'NOTOK).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1353	RDM_TE_CT_23	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(23) Scale Factor: ns				
Total occurrence count for RedMan error type #23 (RED'QUART'HZ).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1354	RDM_TE_CT_24	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(24) Scale Factor: ns				
Total occurrence count for RedMan error type #24 (RED'TWO'HZ).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1355	RDM_TE_CT_25	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(25) Scale Factor: ns				
Total occurrence count for RedMan error type #25 (RED'SA'READ).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1356	RDM_TE_CT_26	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(26) Scale Factor: ns				
Total occurrence count for RedMan error type #26 (RED'SSA'DATA).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1357	RDM_TE_CT_27	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(27) Scale Factor: ns				
Total occurrence count for RedMan error type #27 (RED'SSA'NOSUN).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1358	RDM_TE_CT_28	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(28) Scale Factor: ns				
Total occurrence count for RedMan error type #28 (RED'RWA'X).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1359	RDM_TE_CT_29	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(29) Scale Factor: ns				
Total occurrence count for RedMan error type #29 (RED'RWA'Y).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1360	RDM_TE_CT_30	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(30) Scale Factor: ns				
Total occurrence count for RedMan error type #30 (RED'RWA'Z).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1361	RDM_TE_CT_31	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(31) Scale Factor: ns				
Total occurrence count for RedMan error type #31 (RED'RWA'S).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1362	RDM_TE_CT_32	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(32) Scale Factor: ns				
Total occurrence count for RedMan error type #32 (RED'IMU'INT).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1363	RDM_TE_CT_33	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(33) Scale Factor: ns				
Total occurrence count for RedMan error type #33 (REDIMU'READ).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1364	RDM_TE_CT_34	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(34) Scale Factor: ns				
Total occurrence count for RedMan error type #34 (REDIMU'STATUS).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1365	RDM_TE_CT_35		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(35) Scale Factor: ns		
Total occurrence count for RedMan error type #35 (RED'SAT).			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1366	RDM_TE_CT_36		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(36) Scale Factor: ns		
Total occurrence count for RedMan error type #36 (RED'CHAN).			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1367	RDM_TE_CT_37	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(37) Scale Factor: ns				
Total occurrence count for RedMan error type #37 (RED'GYRO).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1368	RDM_TE_CT_38	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(38) Scale Factor: ns				
Total occurrence count for RedMan error type #38 (RED'DTC).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1369	RDM_TE_CT_39	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(39) Scale Factor: ns				
Total occurrence count for RedMan error type #39 (RED'EDF'MEOK).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1370	RDM_TE_CT_40	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(40) Scale Factor: ns				
Total occurrence count for RedMan error type #40 (RED'EDF'INT).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1371	RDM_TE_CT_41		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(41) Scale Factor: ns		
Total occurrence count for RedMan error type #41 (RED'EDFTIMEOUT).			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1372	RDM_TE_CT_42		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(42) Scale Factor: ns		
Total occurrence count for RedMan error type #42 (RED'EDF'CHECKSUM).			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1373	RDM_TE_CT_43	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(43) Scale Factor: ns				
Total occurrence count for RedMan error type #43 (RED'XSU'THERM).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1374	RDM_TE_CT_44	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(44) Scale Factor: ns				
Total occurrence count for RedMan error type #44 (RED'XSU'TIMEOUT).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1375	RDM_TE_CT_45	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(45) Scale Factor: ns				
Total occurrence count for RedMan error type #45 (RED'TURN'TWTA'OFF).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1376	RDM_TE_CT_46	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(46) Scale Factor: ns				
Total occurrence count for RedMan error type #46 (RED'TURN'TWTA'ON).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1377	RDM_TE_CT_47	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(47) Scale Factor: ns				
Total occurrence count for RedMan error type #47 (RED'BOTH'TWTA'ON).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1378	RDM_TE_CT_48	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(48) Scale Factor: ns				
Total occurrence count for RedMan error type #48 (RED'TURN'FIL'OFF).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1379	RDM_TE_CT_49	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(49) Scale Factor: ns				
Total occurrence count for RedMan error type #49 (RED'MOT'RECEIVER).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1380	RDM_TE_CT_50	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(50) Scale Factor: ns				
Total occurrence count for RedMan error type #50 (RED'MOT'EXCITER).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1381	RDM_TE_CT_51		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(51) Scale Factor: ns		
Total occurrence count for RedMan error type #51 (RED'PSE'TIMEOUT).			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1382	RDM_TE_CT_52		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(52) Scale Factor: ns		
Total occurrence count for RedMan error type #52 (RED'PSE'BUS).			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: Audit Queue			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1383	RDM_TE_CT_53	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(53) Scale Factor: ns				
Total occurrence count for RedMan error type #53 (RED'SAP'READ).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1384	RDM_TE_CT_54	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(54) Scale Factor: ns				
Total occurrence count for RedMan error type #54 (RED'SAP'WRITE).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1385	RDM_TE_CT_55	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(55) Scale Factor: ns				
Total occurrence count for RedMan error type #55 (RED'SAP'DATA).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1386	RDM_TE_CT_56	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(56) Scale Factor: ns				
Total occurrence count for RedMan error type #56 (RED'SAP'POSITION).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1387	RDM_TE_CT_57	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(57) Scale Factor: ns				
Total occurrence count for RedMan error type #57 (RED'SAM'READ).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1388	RDM_TE_CT_58	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(58) Scale Factor: ns				
Total occurrence count for RedMan error type #58 (RED'SAM'WRITE).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1389	RDM_TE_CT_59	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(59) Scale Factor: ns				
Total occurrence count for RedMan error type #59 (RED'SAM'DATA).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1390	RDM_TE_CT_60	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(60) Scale Factor: ns				
Total occurrence count for RedMan error type #60 (RED'SAM'POSITION).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1391	RDM_TE_CT_61	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(61) Scale Factor: ns				
Total occurrence count for RedMan error type #61 (RED'HGA'READ).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1392	RDM_TE_CT_62	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(62) Scale Factor: ns				
Total occurrence count for RedMan error type #62 (RED'HGA'WRITE).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1393	RDM_TE_CT_63	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(63) Scale Factor: ns				
Total occurrence count for RedMan error type #63 (RED'HGA'DATA).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: Audit Queue Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1394	RDM_TE_CT_64	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(64) Scale Factor: ns				
Total occurrence count for RedMan error type #64 (RED'HGA'POSITION).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1395	RDM_TE_CT_65	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(65) Scale Factor: ns				
Total occurrence count for RedMan error type #65 (RED'MHSA'IO).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1396	RDM_TE_CT_66	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(66) Scale Factor: ns				
Total occurrence count for RedMan error type #66 (RED'MHSA'DATA).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1397	RDM_TE_CT_67	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(67) Scale Factor: ns				
Total occurrence count for RedMan error type #67 (RED'MHSA'SEARCH).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1398	RDM_TE_CT_68	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(68) Scale Factor: ns				
Total occurrence count for RedMan error type #68 (RED'FAN'A).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1399	RDM_TE_CT_69	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(69) Scale Factor: ns				
Total occurrence count for RedMan error type #69 (RED'FAN'B).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1400	RDM_TE_CT_70	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(70) Scale Factor: ns				
Total occurrence count for RedMan error type #70 (RED'AACS'RATE).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: None					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1401	RDM_TE_CT_71	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(71) Scale Factor: ns				
Total occurrence count for RedMan error type #71 (RED'AACS'ATT).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1402	RDM_TE_CT_72	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(72) Scale Factor: ns				
Total occurrence count for RedMan error type #72 (RED'TANK'OP1).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1403	RDM_TE_CT_73	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(73) Scale Factor: ns				
Total occurrence count for RedMan error type #73 (RED'TANK'OP2).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1404	RDM_TE_CT_74	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(74) Scale Factor: ns				
Total occurrence count for RedMan error type #74 (RED'TANK'UP).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1405	RDM_TE_CT_75	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: REDMANTOTALERRORCOUNT(75) Scale Factor: ns				
Total occurrence count for RedMan error type #75 (RED'REA'LEAK).					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-1408	RDM_XS_ERRS	CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: REDMANCPL FSW Name: TOOMANYFOLLOWUPCOUNT Scale Factor: ns				
Counts number of times where an error report led to too many (possibly infinite) follow-up errors. This telemetry variable should always show zero.					
Loss of Function: None.					
Recommended Action:					
Impact of Loss of Tlm: Loss of REDMAN diagnostic info. Loss of counters.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-1410	SCP_DATAFAUL		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELEMETRYCPL FSW Name: TLMDATAREADFAULTCOUNT Scale Factor: ns					
Number of times a SCP uncorrectable memory error occurred when sampling SCP telemetry data.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: Machine-error related tlm items Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1411	SCP_DUMPFAUL		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELEMETRYCPL FSW Name: TLMDUMPREADFAULTCOUNT Scale Factor: ns					
Number of times a SCP uncorrectable memory error occurred when sampling SCP memory dump data.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: Machine-error related tlm items Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1412	SCP_EMRTLMNO		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELEMETRYTABLESPRESET FSW Name: EMERGENCYTLMVERSION Scale Factor: ns		
Emergency SCP Telemetry Table Version Number. Low 6 bits are present in SCP status word in every emergency telemetry frame.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify TLM parameters expected in downlink. Without a reference, TLM cannot be interpreted.			
Alternate Telemetry: Look at first word of SCP Tlm Block once table is selected			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1413	SCP_ENGTLMNO		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELEMETRYTABLESPRESET FSW Name: ENGINEERINGTLMVERSION Scale Factor: ns		
Engineering SCP Telemetry Table Version Number. Low 6 bits are present in SCP status word in every engineering telemetry frame.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify TLM parameters expected in downlink. Without a reference, TLM cannot be interpreted.			
Alternate Telemetry: Look at first word of SCP Tlm Block once table is selected			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1414	SCP_FRAME_ID		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELEMETRYCPL FSW Name: MINORFRAMENUMBER Scale Factor: ns		
Minor frame number used by SCP to select which SCP telemetry data is included in the current frame.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot decom SCP tlm			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1420	SMOEX_ENABLES		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: SMOEXECPRESET FSW Name: SMOEXECENABLES Scale Factor: ns		
SmoExec'Enables is a packed word of booleans set by ground command. Bit 0 - Autonomus launch sequence software enable status Bit 1 - Contingency mode script feature enable status			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: For cmds affecting this item, verify execution by CV or MRO			
Alternate Telemetry: CV			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1421	SMOEX_PKD_ST		CDH			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: SMOEXECPL FSW Name: PACKEDSMOEXECSTATE Scale Factor: ns					
Packed SMO Exec states.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-1430	TC_ACTV_SCRP		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDCPL FSW Name: ACTIVESCRIPTCOUNT Scale Factor: ns					
Number of stored command scripts currently active (in execution).						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Less info about stored script processing.						
Alternate Telemetry: CV Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1431	TC_CMD_TIME		CDH
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: TIMEDCMDCPL FSW Name: COMMANDTIME Scale Factor: ns		
Current command time used for stored command script sequencing.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: F-1015 CE_SCV_TIME			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1432	TC_DISCRETES		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: TIMEDCMDPRESET FSW Name: TIMEDCMDDISCRETES Scale Factor: ns		
Timed Command discrete word. Bit 0 - Stored command processing enable status. Bit 1 - Emergency rate command protection enable status.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: CV for cmds that affect this tlm item			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1433	TC_HEAD_ACTV		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDCPL FSW Name: ACTIVELISTHEAD Scale Factor: ns					
Pointer to Active Script Table entry of active script with earliest timetag. Change indicates script execution activity.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1434	TC_INVLPULMS		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDCPL FSW Name: INVALIDPULSTERMMMSGCOUNT Scale Factor: ns					
Number of invalid messages received in the PulsTerm Queue. Indicates an internal software error.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1435	TC_MAXACTSCR		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDPRESET FSW Name: MAXACTIVESCRIPTS Scale Factor: ns		
Maximum number of scripts that may be simultaneously active.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None, this is a preset parameter			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1436	TC_MAX_ADDR		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: TIMEDCMDCPL FSW Name: MAXSCRIPTADDRESS Scale Factor: ns		
Highest relative address in Script Buffer that may be loaded with a script body.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None, this is a preset parameter			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1437	TC_NCTLOFFS		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDPRESET FSW Name: NONCONTROLTIMEOFFSET Scale Factor: ns		
Number of seconds execution of Stored Commands is delayed in the non-control SCP.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None, this is a preset parameter			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1438	TC_PDS_CMDEX		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDCPL FSW Name: STOREDPDSCMDEXECUTEDCOUNT Scale Factor: ns		
Number of PDS commands executed from stored command scripts.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: script CV			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1439	TC_PD_ISINIT		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDCPL FSW Name: PULSEDISCRETESTINITIATEDCOUNT Scale Factor: ns					
Number of pulse discrete commands initiated (i.e. a CIU/CIX bit set to 1).						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1440	TC_PD_ISTERM		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDCPL FSW Name: PULSEDISCRETESTERMINATEDCOUNT Scale Factor: ns					
Number of pulse discrete commands terminated. (i.e. a CIU/CIX bit reset to 0). This count should be equal to the Pulse'Discretes'Initiated'Count except when a pulse is active.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1441	TC_SBUS_EXCT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDCPL FSW Name: STOREDBUSCMDEXECUTEDCOUNT Scale Factor: ns		
Number of SCP commands executed from stored command scripts.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: script CV			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1442	TC_SBUS_RJCT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDCPL FSW Name: STOREDBUSCMDREJECTEDCOUNT Scale Factor: ns		
Number of SCP commands from stored command scripts rejected by Execute Command.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: script CV			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1443	TC_SCMD_DATA		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDCPL FSW Name: STRDCMDDATA Scale Factor: ns					
First dataword of last stored command executed. Opcode extension or Action ID if command is a S/W Subsystem command.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1444	TC_SCMD_OPCODE		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDCPL FSW Name: STRDCMDOPCODE Scale Factor: ns					
Opcode of last stored command executed. Bits 0..3 are number of datawords.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1445	TC_SCMD_SORS		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDCPL FSW Name: STRDCMDSOURCE Scale Factor: ns		
Source of last stored command executed. Bits 2..15 are relative address in Script Buffer.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1446	TC_SCRIPT_ADR		CDH
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: TIMEDCMDPRESET FSW Name: SCRIPTBUFFER'ADDRESS Scale Factor: ns		
Logical address in Operand Address State 1 of the Script Buffer.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1447	TC_SCRIPT_SIZ		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDPRESET FSW Name: SCRIPTBUFFERSIZE Scale Factor: ns		
Size of the Script Buffer (including Active Script List).			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None, preset parameter			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1448	TC_UNXMSGTCT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TIMEDCMDCPL FSW Name: TIMEDCMDUNEXPECTEDMSGTYPECO Scale Factor: ns		
Number of invalid messages received in the TimedCmd Queue. Indicates an internal software error.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1450	UPL_CIUARMCT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: CIUCOMMANDARMEDCOUNT Scale Factor: ns		
Number of CIU command frames received with CIU Command Armed status.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: realtime CV			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1451	UPL_CIUEXCNT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: CIUCOMMANDEXECUTEDCOUNT Scale Factor: ns		
Number of CIU commands executed by the uplink processor.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: realtime CV			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1452	UPL_CIUREJCT		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: CIUCOMMANDREJECTEDCOUNT Scale Factor: ns					
Number of CIU commands rejected by the uplink processor.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of info useful in command processing analysis. Commanding problems will require C&DH investigation.						
Alternate Telemetry: realtime CV Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1453	UPL_CMDEXTIM		CDH			
Data Type: UNSIGNED # Bits: 32 Start Bit: 0	Compool: UPLINKCPL FSW Name: UPLINKCOMMANDEXECUTIONTIME Scale Factor: ns					
Time of execution of the last uplink command received.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1454	UPL_CMDSEQNO		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: COMMANDSEQUENCENUMBER Scale Factor: ns		
Command Sequence Number of the most recently received command frame.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: realtime CV			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1455	UPL_CRCERRCT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: CRCERRORCOUNT Scale Factor: ns		
Number of command blocks rejected because of an incorrect block error detection CRC value.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of info useful in command processing analysis. Commanding problems will require C&DH investigation.			
Alternate Telemetry: realtime CV			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1456	UPL_DOUBERCT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: DOUBLEERRORCOUNT Scale Factor: ns		
Number of frames rejected because of an uncorrectable error detected by the uplink processor hardware.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of info useful in command processing analysis. Commanding problems will require C&DH investigation.			
Alternate Telemetry: realtime CV			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1457	UPL_FMTERRCT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: FORMATERRORCOUNT Scale Factor: ns		
Number of command blocks rejected because of invalid format. Possible causes are:			
1. A command frame was received when a data frame was expected. 2. A CIU command frame was received with neither Armed nor Executed status. 3. A SCP command frame was received with data frame count = 0. 4. A data frame was received when a data frame was not expected. 5. More than 63 data frame commands were received for a single command block.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of info useful in command processing analysis. Commanding problems will require C&DH investigation.			
Alternate Telemetry: realtime CV			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1458	UPL_INTRPTCT		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: UPLINKINTERRUPTCOUNT Scale Factor: ns					
Total number of uplink processor interrupts that have been processed.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: Frames 'Received' Count. Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1459	UPL_RECVDCNT		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: FRAMESRECEIVEDCOUNT Scale Factor: ns					
Number of uplink frames processed by the uplink task. Should be the same as UPL_INTERCNT.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1460	UPL_SCPEXCNT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: SCPCOMMANDEXECUTEDCOUNT Scale Factor: ns		
Number of SCP commands correctly received and executed.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: None			
Alternate Telemetry: CV			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1461	UPL_SCPREJECT		CDH
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: SCPCOMMANDREJECTEDCOUNT Scale Factor: ns		
Number of SCP commands correctly received, but rejected by Execute Command.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of command processing diagnostic info. Commad processing investigation needed.			
Alternate Telemetry: CV			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1462	UPL_SEQERRCT		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: SEQUENCEERRORCOUNT Scale Factor: ns					
Number of command frames received with non-consecutive Command Sequence Numbers.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of command processing diagnostic info. Commad processing investigation needed.						
Alternate Telemetry: CV Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-1463	UPL_SINGERCT		CDH			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: SINGLEERRORCOUNT Scale Factor: ns					
Number of frames received with a single bit error corrected by the uplink processor hardware.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: None						
Alternate Telemetry: CV Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-1464	UPL_UNXMSGCT		CDH														
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: UNEXPECTEDMSGTYPECOUNT Scale Factor: ns																
Number of invalid messages received by Uplink Task. Indicates an internal software error.																	
Loss of Function: N/A																	
Recommended Action:																	
Impact of Loss of Tlm: None																	
Alternate Telemetry: None																	
Related Measurements:																	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0																
F-1465	UPL_STATUS		CDH														
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: UPLINKCPL FSW Name: UPLINKSTATUS Scale Factor: ns																
Uplink status data. Individual bit channels are F/N-1760 through F/N-1775.																	
<table> <tbody> <tr><td>Bit 0 - CIU Command Armed</td><td>Bit 8 - spare</td></tr> <tr><td>Bit 1 - CIU Command Rejected</td><td>Bit 9 - spare</td></tr> <tr><td>Bit 2 - CIU Command Executed</td><td>Bit 10 - spare</td></tr> <tr><td>Bit 3 - Double Error</td><td>Bit 11 - spare</td></tr> <tr><td>Bit 4 - Single Error</td><td>Bit 12 - spare</td></tr> <tr><td>Bit 5 .. 6 - Destination Code</td><td>Bit 13 - Buffer Ready</td></tr> <tr><td>Bit 7 - Data Frame</td><td>Bit 14 - CDU Pick B Bit 15 - CDU Pick A</td></tr> </tbody> </table>				Bit 0 - CIU Command Armed	Bit 8 - spare	Bit 1 - CIU Command Rejected	Bit 9 - spare	Bit 2 - CIU Command Executed	Bit 10 - spare	Bit 3 - Double Error	Bit 11 - spare	Bit 4 - Single Error	Bit 12 - spare	Bit 5 .. 6 - Destination Code	Bit 13 - Buffer Ready	Bit 7 - Data Frame	Bit 14 - CDU Pick B Bit 15 - CDU Pick A
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Bit 3 - Double Error	Bit 11 - spare																
Bit 4 - Single Error	Bit 12 - spare																
Bit 5 .. 6 - Destination Code	Bit 13 - Buffer Ready																
Bit 7 - Data Frame	Bit 14 - CDU Pick B Bit 15 - CDU Pick A																
Loss of Function: N/A																	
Recommended Action:																	
Impact of Loss of Tlm:																	
Alternate Telemetry:																	
Related Measurements:																	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0																

SCP TELEMETRY

F-1500	AUTOEN1_BUS		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/00	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(0) Scale Factor: ns		
Bit 0 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for CIU/CIX Bus. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands. Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-1501	AUTOEN1_CLK		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/01	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(1) Scale Factor: ns		
Bit 1 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for CIU Clock Divider. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands. Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	

SCP TELEMETRY

F-1502	AUTOEN1_SSA		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/02	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(2) Scale Factor: ns		
Bit 2 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for SSA. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-1503	AUTOEN1_RWA		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/03	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(3) Scale Factor: ns		
Bit 3 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for RWA Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	

SCP TELEMETRY

F-1504	AUTOEN1_IMU		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/04	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(4) Scale Factor: ns		
Bit 4 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for IMU. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands. Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-1505	AUTOEN1_GYR		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/05	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(5) Scale Factor: ns		
Bit 5 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for Gyros. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands. Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	

SCP TELEMETRY

F-1506	AUTOEN1_DTC		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/06	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(6) Scale Factor: ns		
Bit 6 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for DTC. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-1507	AUTOEN1_EDF		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/07	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(7) Scale Factor: ns		
Bit 7 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for EDF. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	

SCP TELEMETRY

F-1508	AUTOEN1_XSU		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/08	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(8) Scale Factor: ns		
Bit 8 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for XSU. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands. Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-1509	AUTOEN1_TWT		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/09	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(9) Scale Factor: ns		
Bit 9 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for RPA (TWTA). Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands. Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	

SCP TELEMETRY

F-1510	AUTOEN1_MOT		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/10	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(10) Scale Factor: ns		
Bit 10 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for MOT. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-1511	AUTOEN1_PSE		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/11	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(11) Scale Factor: ns		
Bit 11 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for PSE. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	

SCP TELEMETRY

F-1512	AUTOEN1_SAP		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/12	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(12) Scale Factor: ns		
Bit 12 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for SAP. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-1513	AUTOEN1_HGA		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/13	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(13) Scale Factor: ns		
Bit 13 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for HGA. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	

SCP TELEMETRY

F-1514	AUTOEN1_SAM		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/14	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(14) Scale Factor: ns		
Bit 14 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for SAM. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-1515	AUTOEN1_ATT		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1008/15	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(15) Scale Factor: ns		
Bit 15 of the Autonomous Redundancy Management Switch word 1 (AUTOENAB_1 F/N-1008). Switch for Attitude Control Fault. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1008.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	

SCP TELEMETRY

F-1520	CIUFL_2Hz	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1024/00	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD(0) Scale Factor: ns	
Bit 0 of the CIU Flags word (CIU_FLAGS F/N-1024). 2 Hz flag-2. 19.53 msec pulse following 2-Hz sync. Logic 0 = NO_PULSE Logic 1 = PULSE		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1024.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_PULSE 1 = PULSE
F-1521	CIUFL_SSA1	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1024/01	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD(1) Scale Factor: ns	
Bit 1 of the CIU Flags word (CIU_FLAGS F/N-1024). Sun Sensor-1 power. Logic 0 = OFF Logic 1 = ON		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1024.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF_ 1 = ON_

SCP TELEMETRY

F-1522	CIUFL_SSA2		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1024/02	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD(2) Scale Factor: ns		
Bit 2 of the CIU Flags word (CIU_FLAGS F/N-1024). Sun Sensor-2 power. Logic 0 = OFF Logic 1 = ON			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1024.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF_ 1 = ON_	
F-1523	CIUFL_QTHz		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1024/03	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD(3) Scale Factor: ns		
Bit 3 of the CIU Flags word (CIU_FLAGS F/N-1024). 0.25 Hz Flag-1. 19.53 msec pulse. Logic 0 = NO_PULSE Logic 1 = PULSE			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1024.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_PULSE 1 = PULSE	

SCP TELEMETRY

F-1524	CIUFL_HEcntl		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1024/04	Compool: CYCEEXECPL FSW Name: CIUFLAGWORD(4) Scale Factor: ns		
Bit 4 of the CIU Flags word (CIU_FLAGS F/N-1024). The Other SCP in Control. Logic 0 = NO_CNTRL Logic 1 = CONTROL			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1024.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_CNTRL 1 = CONTROL	
F-1525	CIUFL_IO_X		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1024/05	Compool: CYCEEXECPL FSW Name: CIUFLAGWORD(5) Scale Factor: ns		
Bit 5 of the CIU Flags word (CIU_FLAGS F/N-1024). I/O Cross-State flag. (I'm on B). Logic 0 = IM_ON_BUS_A Logic 1 = IM_ON_BUS_B			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1024.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = IM_ON_BUS_A 1 = IM_ON_BUS_B	

SCP TELEMETRY

F-1526	CIUFL_EDF1ok		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1024/06	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD(6) Scale Factor: ns		
Bit 6 of the CIU Flags word (CIU_FLAGS F/N-1024). EDF-1 OK flag. Logic 0 = NOT_OK Logic 1 = OK			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1024.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_OK 1 = OK	
F-1527	CIUFL_EDF2ok		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1024/07	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD(7) Scale Factor: ns		
Bit 7 of the CIU Flags word (CIU_FLAGS F/N-1024). EDF-2 OK flag. Logic 0 = NOT_OK Logic 1 = OK			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1024.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_OK 1 = OK	

SCP TELEMETRY

F-1528	CIUFL_MEcntl		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1024/08	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD(8) Scale Factor: ns		
Bit 8 of the CIU Flags word (CIU_FLAGS F/N-1024). This SCP in Control (IMCONT). Logic 0 = NO_CNTRL Logic 1 = CONTROL			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1024.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_CNTRL 1 = CONTROL	
F-1529	CIUFL_MHSA1P		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1024/09	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD(9) Scale Factor: ns		
Bit 9 of the CIU Flags word (CIU_FLAGS F/N-1024). MHSA side 1 power. Active state = MHSA side 1 ON. Logic 0 = OFF Logic 1 = ON			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1024.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON	

SCP TELEMETRY

F-1530	CIUFL_MEok		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1024/10	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD(10) Scale Factor: ns		
Bit 10 of the CIU Flags word (CIU_FLAGS F/N-1024). This SCP OK flag (IMOK). Logic 0 = NOT_OK Logic 1 = OK			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1024.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_OK 1 = OK	
F-1531	CIUFL_HEok		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1024/11	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD(11) Scale Factor: ns		
Bit 11 of the CIU Flags word (CIU_FLAGS F/N-1024). The Other SCP OK flag (HEOK). Logic 0 = NOT_OK Logic 1 = OK			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1024.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_OK 1 = OK	

SCP TELEMETRY

F-1532	CIUFL_BUSSel	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1024/12	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD(12) Scale Factor: ns				
Bit 12 of the CIU Flags word (CIU_FLAGS F/N-1024). Bus Select B flag. Active state = I/O-B Bus is the selected bus. Logic 0 = BUS_A Logic 1 = BUS_B					
Loss of Function: N/A					
Recommended Action: Impact of Loss of Tlm: Refer to parent channel F/N 1024. Alternate Telemetry: Refer to parent channel.					
Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> State Names: 0 = BUS_A 1 = BUS_B </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BUS_A 1 = BUS_B
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BUS_A 1 = BUS_B			
F-1533	CIUFL_CNTmod	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1024/13	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD(13) Scale Factor: ns				
Bit 13 of the CIU Flags word (CIU_FLAGS F/N-1024). SCP-1 Contingency flag. Flag is set by other SCP. Logic 0 = NOTCMODE Logic 1 = IN_CONT_MODE					
Loss of Function: N/A					
Recommended Action: Impact of Loss of Tlm: Refer to parent channel F/N 1024. Alternate Telemetry: Refer to parent channel.					
Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> State Names: 0 = NOTCMODE 1 = IN_CONT_MODE </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOTCMODE 1 = IN_CONT_MODE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOTCMODE 1 = IN_CONT_MODE			

SCP TELEMETRY

F-1534	CIUFL_MARSloc	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1024/14	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD(14) Scale Factor: ns	
Bit 14 of the CIU Flags word (CIU_FLAGS F/N-1024). SCP-1 Mars lock flag. Flag is set by other SCP. Logic 0 = CSA_backup Logic 1 = MHSA_MARSloc		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1024.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = CSA_backup 1 = MHSA_MARSloc
F-1535	CIUFL_DESR_B	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1024/15	Compool: CYCEXECCPL FSW Name: CIUFLAGWORD(15) Scale Factor: ns	
Bit 15 of the CIU Flags word (CIU_FLAGS F/N-1024). I/O Desired Bus. Logic 0 = BUS_A Logic 1 = BUS_B		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1024.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BUS_A 1 = BUS_B

SCP TELEMETRY

F-1540	CIXFL_ECHO	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1026/00	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(0) Scale Factor: ns	
Bit 0 of the CIX Flags word (CIX_FLAGS F/N-1026). CIX Echo. Logic 0 = RESET Logic 1 = SET		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1026.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
F-1541	CIXFL_01	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1026/01	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(1) Scale Factor: ns	
Bit 1 of the CIX Flags word (CIX_FLAGS F/N-1026). Spare. Logic 0 = RESET Logic 1 = SET		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1026.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET

SCP TELEMETRY

F-1542	CIXFL_02	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1026/02	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(2) Scale Factor: ns	
Bit 2 of the CIX Flags word (CIX_FLAGS F/N-1026). Spare. Logic 0 = RESET Logic 1 = SET		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1026.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
F-1543	CIXFL_03	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1026/03	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(3) Scale Factor: ns	
Bit 3 of the CIX Flags word (CIX_FLAGS F/N-1026). Spare. Logic 0 = RESET Logic 1 = SET		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1026.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET

SCP TELEMETRY

F-1544	CIXFL_HEcntl	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1026/04	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(4) Scale Factor: ns	
Bit 4 of the CIX Flags word (CIX_FLAGS F/N-1026). He in Control. Active state = SCP-1 in Control. Logic 0 = NO_CNTRL Logic 1 = CONTROL		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1026.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_CNTRL 1 = CONTROL
F-1545	CIXFL_IO_X	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1026/05	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(5) Scale Factor: ns	
Bit 5 of the CIX Flags word (CIX_FLAGS F/N-1026). I/O Cross-State flag. (I'm on B). Logic 0 = IM_ON_BUS_A Logic 1 = IM_ON_BUS_B		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1026.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = IM_ON_A 1 = IM_ON_B

SCP TELEMETRY

F-1546	CIXFL_06	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1026/06	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(6) Scale Factor: ns	
Bit 6 of the CIX Flags word (CIX_FLAGS F/N-1026). Spare. Logic 0 = RESET Logic 1 = SET		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1026.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
F-1547	CIXFL_07	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1026/07	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(7) Scale Factor: ns	
Bit 7 of the CIX Flags word (CIX_FLAGS F/N-1026). Spare. Logic 0 = RESET Logic 1 = SET		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1026.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET

SCP TELEMETRY

F-1548	CIXFL_MEcntl	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1026/08	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(8) Scale Factor: ns				
Bit 8 of the CIX Flags word (CIX_FLAGS F/N-1026). Control 2 flag IMCONT. Active state = SCP-2 in Control. Logic 0 = NO_CTRL Logic 1 = CONTROL					
Loss of Function: N/A					
Recommended Action: Impact of Loss of Tlm: Refer to parent channel F/N 1026. Alternate Telemetry: Refer to parent channel. Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"> State Names: 0 = NO_CTRL 1 = CONTROL </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_CTRL 1 = CONTROL
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_CTRL 1 = CONTROL			
F-1549	CIXFL_09	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1026/09	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(9) Scale Factor: ns				
Bit 9 of the CIX Flags word (CIX_FLAGS F/N-1026). Spare. Logic 0 = RESET Logic 1 = SET					
Loss of Function: N/A					
Recommended Action: Impact of Loss of Tlm: Refer to parent channel F/N 1026. Alternate Telemetry: Refer to parent channel. Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"> State Names: 0 = RESET 1 = SET </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET			

SCP TELEMETRY

F-1550	CIXFL_10	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1026/10	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(10) Scale Factor: ns	
Bit 10 of the CIX Flags word (CIX_FLAGS F/N-1026). Spare. Logic 0 = RESET Logic 1 = SET		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1026.		
Alternate Telemetry: Refer to parent channel. Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
F-1551	CIXFL_11	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1026/11	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(11) Scale Factor: ns	
Bit 11 of the CIX Flags word (CIX_FLAGS F/N-1026). Spare. Logic 0 = RESET Logic 1 = SET		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1026.		
Alternate Telemetry: Refer to parent channel. Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET

SCP TELEMETRY

F-1552	CIXFL_BUSSel	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1026/12	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(12) Scale Factor: ns	
Bit 12 of the CIX Flags word (CIX_FLAGS F/N-1026). Bus Select B flag. Active state = I/O-B Bus is the selected bus. Logic 0 = BUS_A Logic 1 = BUS_B		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1026.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BUS_A 1 = BUS_B
F-1553	CIXFL_13	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1026/13	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(13) Scale Factor: ns	
Bit 13 of the CIX Flags word (CIX_FLAGS F/N-1026). Spare. Logic 0 = RESET Logic 1 = SET		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1026.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET

SCP TELEMETRY

F-1554	CIXFL_14	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1026/14	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(14) Scale Factor: ns	
Bit 14 of the CIX Flags word (CIX_FLAGS F/N-1026). Spare. Logic 0 = RESET Logic 1 = SET		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1026.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
F-1555	CIXFL_DESR_B	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1026/15	Compool: CYCEXECCPL FSW Name: CIXFLAGWORD(15) Scale Factor: ns	
Bit 15 of the CIX Flags word (CIX_FLAGS F/N-1026). I/O Desired Bus. Logic 0 = BUS_A Logic 1 = BUS_B		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1026.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BUS_A 1 = BUS_B

SCP TELEMETRY

F-1560	DVDEAD1_BUS		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/00	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(0) Scale Factor: ns		
Bit 0 of the Device Dead word (DEVDEAD_1 F/N-1034). CIU/CIX Bus device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1034.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	
F-1561	DVDEAD1_CLK		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/01	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(1) Scale Factor: ns		
Bit 1 of the Device Dead word (DEVDEAD_1 F/N-1034). CIU clock divider device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1034.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	

SCP TELEMETRY

F-1562	DVDEAD1_SSA		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/02	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(2) Scale Factor: ns		
Bit 2 of the Device Dead word (DEVDEAD_1 F/N-1034). SSA device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1034.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	
F-1563	DVDEAD1_RWA		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/03	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(3) Scale Factor: ns		
Bit 3 of the Device Dead word (DEVDEAD_1 F/N-1034). RWA device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1034.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	

SCP TELEMETRY

F-1564	DVDEAD1_IMU		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/04	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(4) Scale Factor: ns		
Bit 4 of the Device Dead word (DEVDEAD_1 F/N-1034). IMU device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1034.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	
F-1565	DVDEAD1_GYRO		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/05	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(5) Scale Factor: ns		
Bit 5 of the Device Dead word (DEVDEAD_1 F/N-1034). GYRO device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1034.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	

SCP TELEMETRY

F-1566	DVDEAD1_DTC		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/06	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(6) Scale Factor: ns		
Bit 6 of the Device Dead word (DEVDEAD_1 F/N-1034). DTC device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1034.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	
F-1567	DVDEAD1_EDF		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/07	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(7) Scale Factor: ns		
Bit 7 of the Device Dead word (DEVDEAD_1 F/N-1034). EDF device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1034.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	

SCP TELEMETRY

F-1568	DVDEAD1_XSU		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/08	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(8) Scale Factor: ns		
Bit 8 of the Device Dead word (DEVDEAD_1 F/N-1034). XSU device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1034.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	
F-1569	DVDEAD1_RPA		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/09	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(9) Scale Factor: ns		
Bit 9 of the Device Dead word (DEVDEAD_1 F/N-1034). RPA device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1034.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	

SCP TELEMETRY

F-1570	DVDEAD1_MOT	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/10	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(10) Scale Factor: ns	
Bit 10 of the Device Dead word (DEVDEAD_1 F/N-1034).		
MOT device dead status. Logic 0 = OK Logic 1 = DEAD		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1034.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD
F-1571	DVDEAD1_PSE	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/11	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(11) Scale Factor: ns	
Bit 11 of the Device Dead word (DEVDEAD_1 F/N-1034).		
MPSE device dead status. Logic 0 = OK Logic 1 = DEAD		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1034.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD

SCP TELEMETRY

F-1572	DVDEAD1_SAP		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/12	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(12) Scale Factor: ns		
Bit 12 of the Device Dead word (DEVDEAD_1 F/N-1034). SAP device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1034.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	
F-1573	DVDEAD1_HGA		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/13	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(13) Scale Factor: ns		
Bit 13 of the Device Dead word (DEVDEAD_1 F/N-1034). HGA device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1034.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	

SCP TELEMETRY

F-1574	DVDEAD1_SAM		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/14	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(14) Scale Factor: ns		
Bit 14 of the Device Dead word (DEVDEAD_1 F/N-1034). SAM device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1034.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	
F-1575	DVDEAD1_AACS		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1034/15	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(15) Scale Factor: ns		
Bit 15 of the Device Dead word (DEVDEAD_1 F/N-1034). AACS Control Fault declared dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1034.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	

SCP TELEMETRY

F-1580	MEOK_OFFL		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1092/00	Compool: CYCEXECCPL FSW Name: MEOKINHIBITWORD(0) Scale Factor: ns		
Bit 0 of MEOK_WORD (F/N-1092). This bit indicates if the SCP is currently withholding its MEOK due to a software detected failure. Logic 0 = MEOKLogic 1 = NOT_OK			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1092.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = MEOK 1 = NOT_OK	
F-1581	MEOK_ERR		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1092/01	Compool: CYCEXECCPL FSW Name: MEOKINHIBITWORD(1) Scale Factor: ns		
Bit 1 of MEOK_WORD (F/N-1092). SCP MEOK signal suppressed due to critical machine error. True = Critical Machine Error detected. Logic 0 = OKLogic 1 = ERROR			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1092.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = ERROR	

SCP TELEMETRY

F-1582	MEOK_REQ		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1092/02	Compool: CYCEXECCPL FSW Name: MEOKINHIBITWORD(2) Scale Factor: ns		
Bit 2 of MEOK_WORD (F/N-1092). SCP MEOK signal suppressed due to RedMan Request. True = RedMan Critical Error detected. Logic 0 = OKLogic 1 = ERROR			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1092.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = ERROR	
F-1583	MEOK_QUER		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1092/03	Compool: CYCEXECCPL FSW Name: MEOKINHIBITWORD(3) Scale Factor: ns		
Bit 3 of MEOK_WORD (F/N-1092). SCP MEOK signal suppressed due to conflicting HECONT & IMCONT bits. True = conflicting HECONT/IMCONT bits detected. Logic 0 = OKLogic 1 = ERROR			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1092.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = ERROR	

SCP TELEMETRY

F-1584	MEOK_ROUT		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1092/04	Compool: CYCEXECCPL FSW Name: MEOKINHIBITWORD(4) Scale Factor: ns		
Bit 4 of MEOK_WORD (F/N-1092). SCP MEOK signal suppressed due to Chronic Redman Task Timeout. True = REDMAN task Timeout Error detected. Logic 0 = OKLogic 1 = ERROR			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1092.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = ERROR	
F-1585	MEOK_UOUT		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1092/05	Compool: CYCEXECCPL FSW Name: MEOKINHIBITWORD(5) Scale Factor: ns		
Bit 5 of MEOK_WORD (F/N-1092). SCP MEOK signal suppressed due to Chronic Uplink Task Timeout. True = Uplink Task Timeout Error detected. Logic 0 = OKLogic 1 = ERROR			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1092.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = ERROR	

SCP TELEMETRY

F-1586	MEOK_TOUT		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1092/06	Compool: CYCEXECCPL FSW Name: MEOKINHIBITWORD(6) Scale Factor: ns		
Bit 6 of MEOK_WORD (F/N-1092). SCP MEOK signal suppressed due to Chronic Telemetry Task Timeout. True = Uplink Task Timeout Error detected. Logic 0 = OK Logic 1 = ERROR			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1092.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = ERROR	
F-1587	MEOK_POUT		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1092/07	Compool: CYCEXECCPL FSW Name: MEOKINHIBITWORD(7) Scale Factor: ns		
Bit 7 of MEOK_WORD (F/N-1092). Task timeout detected by SCP. SCP will attempt to withhold MEOK signal causing SCP to go offline. Logic 0 = OK Logic 1 = ERROR			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1092.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = ERROR	

SCP TELEMETRY

F-1588	MEOK_WKUP	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1092/08	Compool: CYCEXECCPL FSW Name: MEOKINHIBITWORD(8) Scale Factor: ns				
Bit 8 of MEOK_WORD (F/N-1092). SCP MEOK signal suppressed due to Chronic Periodic Task Wakeup Error. Queue Error received while trying to wakeup a periodic task. True = Periodic Task Wakeup Error detected. Logic 0 = OKLogic 1 = ERROR					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Refer to parent channel F/N 1092.					
Alternate Telemetry: Refer to parent channel.					
Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td> State Names: 0 = OK 1 = ERROR </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = ERROR
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = ERROR			
F-1589	MEOK_STAK	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1092/09	Compool: CYCEXECCPL FSW Name: MEOKINHIBITWORD(9) Scale Factor: ns				
Bit 9 of MEOK_WORD (F/N-1092). SCP MEOK signal suppressed due to Task Stack Overflow Error Detection. True = Task Stack Overflow Error detected. Logic 0 = OKLogic 1 = ERROR					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Refer to parent channel F/N 1092.					
Alternate Telemetry: Refer to parent channel.					
Related Measurements: <table border="1"> <tr> <td> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td> State Names: 0 = OK 1 = ERROR </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = ERROR
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = ERROR			

SCP TELEMETRY

F-1590		MEOK_SPARES	CDH
Data Type: UNSIGNED # Bits: 6 Start Bit: F-1092/10	Compool: CYCEXECCPL FSW Name: MEOKINHIBITWORD(10) Scale Factor: ns		
Bits 10..15 of MEOK_WORD (F/N-1092). MEOKWORD spare 6 bits.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1092.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1600		MINISEQ_ACTV	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1094/00	Compool: MINISEQCPL FSW Name: MINISEQSTATUS(0) Scale Factor: ns		
Bit 0 of the Mini Sequence word (MINISEQ F/N-1094). Mini Sequence active status. Logical 0 = NOTACT Logical 1 = ACTIVE			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1094.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOTACT 1 = ACTIVE	

SCP TELEMETRY

F-1601		MINISEQ_CMDE	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1094/01	Compool: MINISEQCPL FSW Name: MINISEQSTATUS(1) Scale Factor: ns		
Bit 1 of the Mini Sequence word (MINISEQ F/N-1094). Mini Sequence terminated due to command error status. Logical 0 = OK Logical 1 = CMD_ERROR			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1094.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = CMD_ERROR	
F-1602		MINISEQ_TAGE	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1094/02	Compool: MINISEQCPL FSW Name: MINISEQSTATUS(2) Scale Factor: ns		
Bit 2 of the Mini Sequence word (MINISEQ F/N-1094). Mini Sequence terminated due to tag error status. Logical 0 = OK Logical 1 = TAG_ERROR			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1094.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = TAG_ERROR	

SCP TELEMETRY

F-1603	MINISEQ_CNTE		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1094/03	Compool: MINISEQCPL FSW Name: MINISEQSTATUS(3) Scale Factor: ns		
Bit 3 of the Mini Sequence word (MINISEQ F/N-1094). Mini Sequence terminated due to word count error status. Logical 0 = OK Logical 1 = CNT_ERROR			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1094.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = CNT_ERROR	
F-1604	MINISEQ_COMP		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1094/04	Compool: MINISEQCPL FSW Name: MINISEQSTATUS(4) Scale Factor: ns		
Bit 4 of the Mini Sequence word (MINISEQ F/N-1094). Mini Sequence terminated normally at a stop tag status. Logical 0 = COMP_ERR Logical 1 = COMP_NORM			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1094.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = COMP_ERROR 1 = COMP_NORMAL	

SCP TELEMETRY

F-1605	MINISEQ_05		CDH
Data Type: UNSIGNED # Bits: 3 Start Bit: F-1094/05	Compool: MINISEQCPL FSW Name: MINISEQSTATUS(5) Scale Factor: ns		
Bits 5..7 of the Mini Sequence word (MINISEQ F/N-1094). Spare 3 bits.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1094.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-1608	MINISEQ_CEXC		CDH
Data Type: UNSIGNED # Bits: 8 Start Bit: F-1094/08	Compool: MINISEQCPL FSW Name: MINISEQSTATUS(8) Scale Factor: ns		
Bits 8..15 of the Mini Sequence word (MINISEQ F/N-1094). Cummulative number of commands successfully executed from Mini Sequence.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1094.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1620	MP_MGS_SEP1	CDH																																				
Data Type: STATUS # Bits: 1 Start Bit: F-1096/00	Compool: SMOEXECPL FSW Name: MISSIONPHASEBUFFER(0) Scale Factor: ns																																					
Bit 0 of the Mission Phase Buffer (2903) (M_PHASE_BUFF F/N-1096). MGS separation from Delta indicator 1. Logic 0 = NO_SEP Logic 1 = SEP																																						
Loss of Function: N/A																																						
Recommended Action:																																						
Impact of Loss of Tlm: Refer to parent channel F/N 2903.																																						
Alternate Telemetry: Refer to parent channel.																																						
Related Measurements:																																						
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SEP 1 = NO_SEP																																				
F-1621	MP_MPR3	CDH																																				
Data Type: STATUS # Bits: 1 Start Bit: F-1096/01	Compool: SMOEXECPL FSW Name: MISSIONPHASEBUFFER(1) Scale Factor: ns																																					
Bit 1 of the Mission Phase Buffer (2903) (M_PHASE_BUFF F/N-1096). Mission Phase Relay 3 status.																																						
<table> <tr> <td>MPR_1</td> <td>MPR_2</td> <td>MPR_3</td> <td></td> </tr> <tr> <td>0</td> <td>0</td> <td>0</td> <td>Failed*</td> </tr> <tr> <td>0</td> <td>0</td> <td>1</td> <td>Inner Cruise</td> </tr> <tr> <td>0</td> <td>1</td> <td>0</td> <td>Outer Cruise</td> </tr> <tr> <td>0</td> <td>1</td> <td>1</td> <td>Failed*</td> </tr> <tr> <td>1</td> <td>0</td> <td>0</td> <td>Mapping</td> </tr> <tr> <td>1</td> <td>0</td> <td>1</td> <td>Failed*</td> </tr> <tr> <td>1</td> <td>1</td> <td>0</td> <td>Failed*</td> </tr> <tr> <td>1</td> <td>1</td> <td>1</td> <td>Aerobrake</td> </tr> </table>			MPR_1	MPR_2	MPR_3		0	0	0	Failed*	0	0	1	Inner Cruise	0	1	0	Outer Cruise	0	1	1	Failed*	1	0	0	Mapping	1	0	1	Failed*	1	1	0	Failed*	1	1	1	Aerobrake
MPR_1	MPR_2	MPR_3																																				
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Related Measurements:																																						
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1																																				

SCP TELEMETRY

F-1622	MP_POB_ECHO1	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1096/02	Compool: SMOEXECPL FSW Name: MISSIONPHASEBUFFER(2) Scale Factor: ns	
Bit 2 of the Mission Phase Buffer (2903) (M_PHASE_BUFF F/N-1096). POB Echo 1, echos bit 12 of CIU POB 2234. Logic 0 = 0 Logic 1 = 1		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 2903.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
F-1623	MP_03	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1096/03	Compool: SMOEXECPL FSW Name: MISSIONPHASEBUFFER(3) Scale Factor: ns	
Bit 3 of the Mission Phase Buffer (2903) (M_PHASE_BUFF F/N-1096). Spare bit. Logic 0 = 0 Logic 1 = 1		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 2903.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1

SCP TELEMETRY

F-1624	MP_MGS_SEP2	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1096/04	Compool: SMOEXECCPL FSW Name: MISSIONPHASEBUFFER(4) Scale Factor: ns	
Bit 4 of the Mission Phase Buffer (2903) (M_PHASE_BUFF F/N-1096). MGS separation from Delta indicator 2. Logic 0 = NO_SEP Logic 1 = SEP		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 2903.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SEP 1 = NO_SEP
F-1625	MP_MGS_SEP3	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1096/05	Compool: SMOEXECCPL FSW Name: MISSIONPHASEBUFFER(5) Scale Factor: ns	
Bit 5 of the Mission Phase Buffer (2903) (M_PHASE_BUFF F/N-1096). MGS separation from Delta indicator 3. Logic 0 = NO_SEP Logic 1 = SEP		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 2903.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SEP 1 = NO_SEP

SCP TELEMETRY

F-1626	MP_MPR2		CDH																																				
Data Type: STATUS # Bits: 1 Start Bit: F-1096/06	Compool: SMOEXECPL FSW Name: MISSIONPHASEBUFFER(6) Scale Factor: ns																																						
Bit 6 of the Mission Phase Buffer (2903) (M_PHASE_BUFF F/N-1096). Mission Phase Relay 2 status.																																							
<table> <tr><td>MPR_1</td><td>MPR_2</td><td>MPR_3</td><td></td></tr> <tr><td>0</td><td>0</td><td>0</td><td>Failed*</td></tr> <tr><td>0</td><td>0</td><td>1</td><td>Inner Cruise</td></tr> <tr><td>0</td><td>1</td><td>0</td><td>Outer Cruise</td></tr> <tr><td>0</td><td>1</td><td>1</td><td>Failed*</td></tr> <tr><td>1</td><td>0</td><td>0</td><td>Mapping</td></tr> <tr><td>1</td><td>0</td><td>1</td><td>Failed*</td></tr> <tr><td>1</td><td>1</td><td>0</td><td>Failed*</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>Aerobrake</td></tr> </table> <p style="text-align: right;">* Failed values default to Aerobrake</p>				MPR_1	MPR_2	MPR_3		0	0	0	Failed*	0	0	1	Inner Cruise	0	1	0	Outer Cruise	0	1	1	Failed*	1	0	0	Mapping	1	0	1	Failed*	1	1	0	Failed*	1	1	1	Aerobrake
MPR_1	MPR_2	MPR_3																																					
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Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1																																					
F-1627	MP_POB_ECHO2		CDH																																				
Data Type: STATUS # Bits: 1 Start Bit: F-1096/07	Compool: SMOEXECPL FSW Name: MISSIONPHASEBUFFER(7) Scale Factor: ns																																						
Bit 7 of the Mission Phase Buffer (2903) (M_PHASE_BUFF F/N-1096). POB Echo 2, echos bit 12 of CIU POB 2234. Logic 0 = 0 Logic 1 = 1																																							
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Recommended Action:																																							
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Related Measurements:																																							
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1																																					

SCP TELEMETRY

F-1628	MP_MPR1	CDH																																				
Data Type: STATUS # Bits: 1 Start Bit: F-1096/08	Compool: SMOEXECCPL FSW Name: MISSIONPHASEBUFFER(8) Scale Factor: ns																																					
Bit 8 of the Mission Phase Buffer (2903) (M_PHASE_BUFF F/N-1096). Mission Phase Relay 1 status.																																						
<table> <thead> <tr> <th>MPR_1</th> <th>MPR_2</th> <th>MPR_3</th> <th></th> </tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>0</td><td>Failed*</td></tr> <tr><td>0</td><td>0</td><td>1</td><td>Inner Cruise</td></tr> <tr><td>0</td><td>1</td><td>0</td><td>Outer Cruise</td></tr> <tr><td>0</td><td>1</td><td>1</td><td>Failed*</td></tr> <tr><td>1</td><td>0</td><td>0</td><td>Mapping</td></tr> <tr><td>1</td><td>0</td><td>1</td><td>Failed*</td></tr> <tr><td>1</td><td>1</td><td>0</td><td>Failed*</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>Aerobrake</td></tr> </tbody> </table> <p style="text-align: right;">* Failed values default to Aerobrake</p>			MPR_1	MPR_2	MPR_3		0	0	0	Failed*	0	0	1	Inner Cruise	0	1	0	Outer Cruise	0	1	1	Failed*	1	0	0	Mapping	1	0	1	Failed*	1	1	0	Failed*	1	1	1	Aerobrake
MPR_1	MPR_2	MPR_3																																				
0	0	0	Failed*																																			
0	0	1	Inner Cruise																																			
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0	1	1	Failed*																																			
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1	0	1	Failed*																																			
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Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1																																				
F-1629	MP_LIFTOFF1	CDH																																				
Data Type: STATUS # Bits: 1 Start Bit: F-1096/09	Compool: SMOEXECCPL FSW Name: MISSIONPHASEBUFFER(9) Scale Factor: ns																																					
Bit 9 of the Mission Phase Buffer (2903) (M_PHASE_BUFF F/N-1096). Delta launch umbilical separation indicator 1. Logic 0 = ON_PAD Logic 1 = LAUNCHED																																						
Loss of Function: N/A																																						
Recommended Action:																																						
Impact of Loss of Tlm: Refer to parent channel F/N 2903.																																						
Alternate Telemetry: Refer to parent channel.																																						
Related Measurements:																																						
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = LAUNCH 1 = ON_PAD																																				

SCP TELEMETRY

F-1630	MP_MGS_SEP4	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1096/10	Compool: SMOEXECCPL FSW Name: MISSIONPHASEBUFFER(10) Scale Factor: ns	
Bit 10 of the Mission Phase Buffer (2903) (M_PHASE_BUFF F/N-1096). MGS separation from Delta indicator 4. Logic 0 = NO_SEP Logic 1 = SEP		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 2903.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SEP 1 = NO_SEP
F-1631	MP_LIFTOFF2	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1096/11	Compool: SMOEXECCPL FSW Name: MISSIONPHASEBUFFER(11) Scale Factor: ns	
Bit 11 of the Mission Phase Buffer (2903) (M_PHASE_BUFF F/N-1096). Delta launch umbilical separation indicator 2. Logic 0 = ON_PAD Logic 1 = LAUNCHED		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 2903.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = LAUNCHED 1 = ON_PAD

SCP TELEMETRY

F-1632	MP_POB_ECHO3	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1096/12	Compool: SMOEXECPL FSW Name: MISSIONPHASEBUFFER(12) Scale Factor: ns	
Bit 12 of the Mission Phase Buffer (2903) (M_PHASE_BUFF F/N-1096). POB Echo 3, echos bit 12 of CIU POB 2234. Logic 0 = 0 Logic 1 = 1		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 2903.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
F-1633	MP_SCP_ID	CDH
Data Type: STATUS # Bits: 3 Start Bit: F-1096/13	Compool: SMOEXECPL FSW Name: MISSIONPHASEBUFFER(13) Scale Factor: ns	
Bits 13...15 of the Mission Phase Buffer (2903) (M_PHASE_BUFF F/N-1096). SCP ID Bits set by CIU. 000 = SCP-1 111 = SCP-2		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 2903.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SCP-1 1 = INVALID 2 = INVALID 3 = INVALID 4 = INVALID 5 = INVALID 6 = INVALID 7 = SCP-2

SCP TELEMETRY

F-1640	RDS1_SW_BUS		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/00	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(0) Scale Factor: ns		
Bit 0 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348).			
CIU BUSES Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1348.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = NOT_SWITCHED 1 = SWITCHED	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		
F-1641	RDS1_SW_SSA		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/01	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(1) Scale Factor: ns		
Bit 1 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348).			
SSA Sides Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Refer to parent channel F/N 1348.			
Alternate Telemetry: Refer to parent channel.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = NOT_SWITCHED 1 = SWITCHED	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1642	RDS1_SW_IMU	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/02	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(2) Scale Factor: ns	
Bit 2 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348).		
IMU Sides Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1348.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED
F-1643	RDS1_SW_EDF	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/03	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(3) Scale Factor: ns	
Bit 3 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348).		
EDF Sides Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1348.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED

SCP TELEMETRY

F-1644	RDS1_SW_XSU	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/04	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(4) Scale Factor: ns	
Bit 4 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348).		
XSU Sides Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1348.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED
F-1645	RDS1_SW_RPA	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/05	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(5) Scale Factor: ns	
Bit 5 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348).		
RPA Sides Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1348.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED

SCP TELEMETRY

F-1646	RDS1_SW_MOT	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/06	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(6) Scale Factor: ns	
Bit 6 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348). MOT Sides Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1348.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED
F-1647	RDS1_SW_PSE	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/07	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(7) Scale Factor: ns	
Bit 7 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348). PSE Sides Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1348.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED

SCP TELEMETRY

F-1648	RDS1_SW_SAP	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/08	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(8) Scale Factor: ns	
Bit 8 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348).		
SAP Sides Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1348.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED
F-1649	RDS1_SW_SAM	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/09	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(9) Scale Factor: ns	
Bit 9 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348).		
SAM Sides Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1348.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED

SCP TELEMETRY

F-1650	RDS1_SW_HGA	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/10	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(10) Scale Factor: ns	
Bit 10 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348). HGA Sides Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1348.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED
F-1651	RDS1_SW_B11	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/11	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(11) Scale Factor: ns	
Bit 11 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348). Normal Mode - MHSAs Sides (Safe Mode - Spare) Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1348.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED

SCP TELEMETRY

F-1652	RDS1_SW_B12	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/12	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(12) Scale Factor: ns	
Bit 12 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348). Normal Mode - RWA Sides (Safe Mode - Warm Start Issued) Logic 0 = NOT_CHANGED (NOT_ISSUED) Logic 1 = CHANGED (ISSUED)		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1348.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_CHANGED 1 = CHANGED
F-1653	RDS1_SW_B13	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/13	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(13) Scale Factor: ns	
Bit 13 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348). Normal Mode - EDF Warm Boot Issued Status (Safe Mode "Issued Cold Start") Logic 0 = NOT_ISSUED Logic 1 = ISSUED		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1348.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ISSUED 1 = ISSUED

SCP TELEMETRY

F-1654	RDS1_SW_B14	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/14	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(14) Scale Factor: ns	
Bit 14 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348). Normal Mode - EDF Cold Boot Issued Status (Safe Mode "Control Fault") Logic 0 = NOT_ISSUED (NOT_SWITCHED) Logic 1 = ISSUED (SWITCHED)		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1348.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ISSUED 1 = ISSUED
F-1655	RDS1_SW_B15	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1348/15	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(15) Scale Factor: ns	
Bit 15 of the RedMan Switch Summary parameters word (RDMN_SW_SUM1 C/N F/N-1348). Normal Mode - AACs Channel Switch (Safe Mode "Spare") Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Refer to parent channel F/N 1348.		
Alternate Telemetry: Refer to parent channel.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED

SCP TELEMETRY

F-1660	AUTOEN2_MHSA		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/00	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(0) Scale Factor: ns		
Bit 0 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Switch for MHSA. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = DISABLED 1 = ENABLED	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		
F-1661	AUTOEN2_CSA		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/01	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(1) Scale Factor: ns		
Bit 1 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Switch for CSA. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = DISABLED 1 = ENABLED	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1662	AUTOEN2_TANK		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/02	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(2) Scale Factor: ns		
Bit 2 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Switch for TANK. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = DISABLED 1 = ENABLED	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		
F-1663	AUTOEN2_REA		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/03	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(3) Scale Factor: ns		
Bit 3 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Switch for REA. Bit is set and cleared by REDMAN_ON and REDMAN_OFF commands.			
Logic 0 = Disabled Logic 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = DISABLED 1 = ENABLED	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1664		AUTOEN2_SP04	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/04	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(4) Scale Factor: ns		
Bit 4 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Spare bit. Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
F-1665		AUTOEN2_SP05	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/05	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(5) Scale Factor: ns		
Bit 5 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Spare bit. Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	

SCP TELEMETRY

F-1666	AUTOEN2_SP06		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/06	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(6) Scale Factor: ns		
Bit 6 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Spare bit. Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
F-1667	AUTOEN2_SP07		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/07	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(7) Scale Factor: ns		
Bit 7 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Spare bit. Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	

SCP TELEMETRY

F-1668	AUTOEN2_SP08		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/08	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(8) Scale Factor: ns		
Bit 8 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Spare bit. Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
F-1669	AUTOEN2_SP09		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/09	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(9) Scale Factor: ns		
Bit 9 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Spare bit. Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	

SCP TELEMETRY

F-1670	AUTOEN2_SP10		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/10	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(10) Scale Factor: ns		
Bit 10 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Spare bit.			
Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = 0 1 = 1	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		
F-1671	AUTOEN2_SP11		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/11	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(11) Scale Factor: ns		
Bit 11 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Spare bit.			
Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = 0 1 = 1	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1672	AUTOEN2_SP12		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/12	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(12) Scale Factor: ns		
Bit 12 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Spare bit.			
Logic 0 = 0 Logic 1 = 1			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = 0 1 = 1	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		
F-1673	AUTOEN2_SP13		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/13	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(13) Scale Factor: ns		
Bit 13 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Spare bit.			
Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = 0 1 = 1	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1674		AUTOEN2_SP14	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/14	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(14) Scale Factor: ns		
Bit 14 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Spare bit. Logic 0 = 0 Logic 1 = 1			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
F-1675		AUTOEN2_SP15	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1009/15	Compool: REDMANCPL FSW Name: AUTONOMOUSEENABLE(15) Scale Factor: ns		
Bit 15 of the Autonomous Redundancy Management Switch word 2 (AUTOENAB_2 F/N-1009). Spare bit. Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced info about REDMAN status. Manual switching will be needed			
Alternate Telemetry: CV. Refer to uplink history for REDMAN_ON and REDMAN_OFF commands.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	

SCP TELEMETRY

F-1680	DVDEAD2_MHSA	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/00	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(0) Scale Factor: ns	
Bit 0 of the Device Dead word (DEVDEAD_2 F/N-1035). MHSA device dead status. Logic 0 = OK Logic 1 = DEAD		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.		
Alternate Telemetry: Log 'Device Dead' in Audit Queue.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD
F-1681	DVDEAD2_CSA	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/01	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(1) Scale Factor: ns	
Bit 1 of the Device Dead word (DEVDEAD_2 F/N-1035). CSA device dead status. Logic 0 = OK Logic 1 = DEAD		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.		
Alternate Telemetry: Log 'Device Dead' in Audit Queue.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD

SCP TELEMETRY

F-1682	DVDEAD2_TANK		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/02	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(2) Scale Factor: ns		
Bit 2 of the Device Dead word (DEVDEAD_2 F/N-1035). TANK device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.			
Alternate Telemetry: Log 'Device Dead' in Audit Queue.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	
F-1683	DVDEAD2_REA		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/03	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(3) Scale Factor: ns		
Bit 3 of the Device Dead word (DEVDEAD_2 F/N-1035). REA device dead status. Logic 0 = OK Logic 1 = DEAD			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.			
Alternate Telemetry: Log 'Device Dead' in Audit Queue.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = DEAD	

SCP TELEMETRY

F-1684	DVDEAD2_SP04		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/04	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(4) Scale Factor: ns		
Bit 4 of the Device Dead word (DEVDEAD_2 F/N-1035). spare Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.			
Alternate Telemetry: Log 'Device Dead' in Audit Queue.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
F-1685	DVDEAD2_SP05		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/05	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(5) Scale Factor: ns		
Bit 5 of the Device Dead word (DEVDEAD_2 F/N-1035). spare Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.			
Alternate Telemetry: Log 'Device Dead' in Audit Queue.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	

SCP TELEMETRY

F-1686	DVDEAD2_SP06	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/06	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(6) Scale Factor: ns	
Bit 6 of the Device Dead word (DEVDEAD_2 F/N-1035). spare Logic 0 = 0 Logic 1 = 1		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.		
Alternate Telemetry: Log 'Device Dead' in Audit Queue.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
F-1687	DVDEAD2_SP07	CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/07	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(7) Scale Factor: ns	
Bit 7 of the Device Dead word (DEVDEAD_2 F/N-1035). spare Logic 0 = 0 Logic 1 = 1		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.		
Alternate Telemetry: Log 'Device Dead' in Audit Queue.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1

SCP TELEMETRY

F-1688	DVDEAD2_SP08		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/08	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(8) Scale Factor: ns		
Bit 8 of the Device Dead word (DEVDEAD_2 F/N-1035). spare Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.			
Alternate Telemetry: Log 'Device Dead' in Audit Queue.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
F-1689	DVDEAD2_SP09		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/09	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(9) Scale Factor: ns		
Bit 9 of the Device Dead word (DEVDEAD_2 F/N-1035). spare Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.			
Alternate Telemetry: Log 'Device Dead' in Audit Queue.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	

SCP TELEMETRY

F-1690	DVDEAD2_SP10		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/10	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(10) Scale Factor: ns		
Bit 10 of the Device Dead word (DEVDEAD_2 F/N-1035). spare Logic 0 = 0 Logic 1 = 1			
Loss of Function: None			
Recommended Action:			
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.			
Alternate Telemetry: Log'Device'Dead in Audit Queue.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = 0 1 = 1	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		
F-1691	DVDEAD2_SP11		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/11	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(11) Scale Factor: ns		
Bit 11 of the Device Dead word (DEVDEAD_2 F/N-1035). spare Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.			
Alternate Telemetry: Log'Device'Dead in Audit Queue.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = 0 1 = 1	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1692	DVDEAD2_SP12		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/12	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(12) Scale Factor: ns		
Bit 12 of the Device Dead word (DEVDEAD_2 F/N-1035). spare Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.			
Alternate Telemetry: Log'Device'Dead in Audit Queue.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = 0 1 = 1	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		
F-1693	DVDEAD2_SP13		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/13	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(13) Scale Factor: ns		
Bit 13 of the Device Dead word (DEVDEAD_2 F/N-1035). spare Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.			
Alternate Telemetry: Log'Device'Dead in Audit Queue.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = 0 1 = 1	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1694	DVDEAD2_SP14		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/14	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(14) Scale Factor: ns		
Bit 14 of the Device Dead word (DEVDEAD_2 F/N-1035). spare Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.			
Alternate Telemetry: Log'Device'Dead in Audit Queue.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
F-1695	DVDEAD2_SP15		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1035/15	Compool: REDMANCPL FSW Name: DEVICEDEADFLAG(15) Scale Factor: ns		
Bit 15 of the Device Dead word (DEVDEAD_2 F/N-1035). spare Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Software may try to access nonfunctional device. Ground will have to ensure inoperative devices are not commanded.			
Alternate Telemetry: Log'Device'Dead in Audit Queue.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	

SCP TELEMETRY

F-1700	RDS2_TNKOP1L	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1349/00	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(0) Scale Factor: ns				
Bit 0 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349). Tank Over Pressure 1 Last Option Logic 0 = NOT_ISSUED Logic 1 = ISSUED					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> State Names: 0 = NOT_ISSUED 1 = ISSUED </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ISSUED 1 = ISSUED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ISSUED 1 = ISSUED			
F-1701	RDS2_SPARE01	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1349/01	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(1) Scale Factor: ns				
Bit 1 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349). spare Logic 0 = 0 Logic 1 = 1					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> State Names: 0 = 0 1 = 1 </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1			

SCP TELEMETRY

F-1702	RDS2_TNKOP2L		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1349/02	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(2) Scale Factor: ns		
Bit 2 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349). Tank Over Pressure 2 Last Option Logic 0 = NOT_ISSUED Logic 1 = ISSUED			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ISSUED 1 = ISSUED	
F-1703	RDS2_SPARE03		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1349/03	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(3) Scale Factor: ns		
Bit 3 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349). spare Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	

SCP TELEMETRY

F-1704	RDS2_TNKUPL	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1349/04	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(4) Scale Factor: ns				
Bit 4 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349). Tank Under Pressure Last Option Logic 0 = NOT_ISSUED Logic 1 = ISSUED					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = NOT_ISSUED 1 = ISSUED </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ISSUED 1 = ISSUED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ISSUED 1 = ISSUED			
F-1705	RDS2_SW2REA	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1349/05	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(5) Scale Factor: ns				
Bit 5 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349). Switched to REA Control Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = NOT_SWITCHED 1 = SWITCHED </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED			

SCP TELEMETRY

F-1706	RDS2_SW2SUNA		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1349/06	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(6) Scale Factor: ns		
Bit 6 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349). Switched to SUN Acq Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED	
F-1707	RDS2_SW_REA		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1349/07	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(7) Scale Factor: ns		
Bit 7 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349). REA Channel Switch Logic 0 = NOT_SWITCHED Logic 1 = SWITCHED			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_SWITCHED 1 = SWITCHED	

SCP TELEMETRY

F-1708	RDS2_REA1ISO	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1349/08	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(8) Scale Factor: ns				
Bit 8 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349). REA String 1 Isolated Logic 0 = NOT_ISOLATED Logic 1 = ISOLATED					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = NOT_ISOLATED 1 = ISOLATED </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ISOLATED 1 = ISOLATED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ISOLATED 1 = ISOLATED			
F-1709	RDS2_REA2ISO	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1349/09	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(9) Scale Factor: ns				
Bit 9 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349). REA String 2 Isolated Logic 0 = NOT_ISOLATED Logic 1 = ISOLATED					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = NOT_ISOLATED 1 = ISOLATED </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ISOLATED 1 = ISOLATED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ISOLATED 1 = ISOLATED			

SCP TELEMETRY

F-1710	RDS2_TWTAFILE	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1349/10	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(10) Scale Factor: ns				
Bit 10 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349). TWTA Filament Monitor Enable Logic 0 = Disabled Logic 1 = Enabled					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = DISABLED 1 = ENABLED </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED			
F-1711	RDS2_SPARE11	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1349/11	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(11) Scale Factor: ns				
Bit 11 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349). Spare Logic 0 = 0 Logic 1 = 1					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = 0 1 = 1 </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1			

SCP TELEMETRY

F-1712	RDS2_SPARE12		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1349/12	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(12) Scale Factor: ns		
Bit 12 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349).			
Spare Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = 0 1 = 1	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		
F-1713	RDS2_SPARE13		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1349/13	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(13) Scale Factor: ns		
Bit 13 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349).			
Spare Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = 0 1 = 1	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-1714	RDS2_SPARE14	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1349/14	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(14) Scale Factor: ns				
Bit 14 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349).					
Spare Logic 0 = 0 Logic 1 = 1					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = 0 1 = 1 </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1			
F-1715	RDS2_SPARE15	CDH			
Data Type: STATUS # Bits: 1 Start Bit: F-1349/15	Compool: REDMANCPL FSW Name: SWITCHSUMMARY(15) Scale Factor: ns				
Bit 15 of the RedMan Switch Summary parameters word (RDMN_SW_SUM2 C/N F/N-1349).					
Spare Logic 0 = 0 Logic 1 = 1					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of diagnostic info. Status will have to be tracked by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = 0 1 = 1 </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1			

SCP TELEMETRY

F-1720	RDM_DC1_SSA	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1237/00	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(0) Scale Factor: ns	
Bit 0 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Current SSA Side. Logic 0 = Side A (a.k.a. Side One) Logic 1 = Side B (a.k.a. Side Two)		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B
F-1721	RDM_DC1_RPA	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1237/01	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(1) Scale Factor: ns	
Bit 1 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Current RPA Side. Logic 0 = Side A (a.k.a. Side One) Logic 1 = Side B (a.k.a. Side Two)		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B

SCP TELEMETRY

F-1722	RDM_DC1_EDF	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1237/02	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(2) Scale Factor: ns	
Bit 2 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Current EDF Side. Logic 0 = Side A (a.k.a. Side One) Logic 1 = Side B (a.k.a. Side Two)		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B
F-1723	RDM_DC1_XSU	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1237/03	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(3) Scale Factor: ns	
Bit 3 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Current XSU Side. Logic 0 = Side A (a.k.a. Side One) Logic 1 = Side B (a.k.a. Side Two)		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B

SCP TELEMETRY

F-1724	RDM_DC1_PSE	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1237/04	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(4) Scale Factor: ns	
Bit 4 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Current PSE Side. Logic 0 = Side A (a.k.a. Side One) Logic 1 = Side B (a.k.a. Side Two)		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B
F-1725	RDM_DC1_SAP	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1237/05	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(5) Scale Factor: ns	
Bit 5 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Current SAP Side. Logic 0 = Side A (a.k.a. Side One) Logic 1 = Side B (a.k.a. Side Two)		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B

SCP TELEMETRY

F-1726	RDM_DC1_SAM		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1237/06	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(6) Scale Factor: ns		
Bit 6 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Current SAM Side. Logic 0 = Side A (a.k.a. Side One) Logic 1 = Side B (a.k.a. Side Two)			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B	
F-1727	RDM_DC1_HGA		AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1237/07	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(7) Scale Factor: ns		
Bit 7 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Current HGA Side. Logic 0 = Side A (a.k.a. Side One) Logic 1 = Side B (a.k.a. Side Two)			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B	

SCP TELEMETRY

F-1728	RDM_DC1_MHSA	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1237/08	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(8) Scale Factor: ns	
Bit 8 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Current MHSA Side. Logic 0 = Side A (a.k.a. Side One) Logic 1 = Side B (a.k.a. Side Two)		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = SIDE_A 1 = SIDE_B
F-1729	RDM_DC1_SP09	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1237/09	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(9) Scale Factor: ns	
Bit 9 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Spare bit.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1

SCP TELEMETRY

F-1730	RDM_DC1_SP10	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1237/10	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(10) Scale Factor: ns	
Bit 10 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Spare bit.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
F-1731	RDM_DC1_SP11	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1237/11	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(11) Scale Factor: ns	
Bit 11 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Spare bit.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1

SCP TELEMETRY

F-1732	RDM_DC1_SP12	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1237/12	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(12) Scale Factor: ns	
Bit 12 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Spare bit.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
F-1733	RDM_DC1_SP13	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1237/13	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(13) Scale Factor: ns	
Bit 13 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Spare bit.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1

SCP TELEMETRY

F-1734	RDM_DC1_SP14	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-1237/14	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(14) Scale Factor: ns				
Bit 14 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Spare bit.					
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = 0 1 = 1 </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1			
F-1735	RDM_DC1_SP15	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-1237/15	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(15) Scale Factor: ns				
Bit 15 of the RedMan device configuration word 1 (RDM_DEV_CFG2 F/N-1237). Spare bit.					
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = 0 1 = 1 </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1			

SCP TELEMETRY

F-1740	RDM_DC2_GYRO		AACS				
Data Type: STATUS # Bits: 3 Start Bit: F-1238/00	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(0) Scale Factor: ns						
Bits 0,1,2 of the RedMan device configuration word 2 (RDM_DEV_CFG2 F/N-1238). Original GYRO Channel Config.							
Logic 000 = Y2,X3,Z3 Logic 100 = Y1,X3,Z3 Logic 001 = Y2,X3,Z2 Logic 101 = Y1,X3,Z2 Logic 010 = Y2,X1,Z3 Logic 110 = Y1,X1,Z3 Logic 011 = Y2,X1,Z2 Logic 111 = Y1,X1,Z2							
Loss of Function:							
Recommended Action:							
Impact of Loss of Tlm:							
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:</td> <td style="padding: 5px; vertical-align: top;">Conversion Type: N/A In Hysteresis: 0 Out Hysteresis: 0</td> <td style="padding: 5px; vertical-align: top;">State Names: 0 = Y2_X3_Z3 1 = Y2_X3_Z2 2 = Y2_X1_Z3 3 = Y2_X1_Z2 4 = Y1_X3_Z3 5 = Y1_X3_Z2 6 = Y1_X1_Z3 7 = Y1_X1_Z2</td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A In Hysteresis: 0 Out Hysteresis: 0	State Names: 0 = Y2_X3_Z3 1 = Y2_X3_Z2 2 = Y2_X1_Z3 3 = Y2_X1_Z2 4 = Y1_X3_Z3 5 = Y1_X3_Z2 6 = Y1_X1_Z3 7 = Y1_X1_Z2	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A In Hysteresis: 0 Out Hysteresis: 0	State Names: 0 = Y2_X3_Z3 1 = Y2_X3_Z2 2 = Y2_X1_Z3 3 = Y2_X1_Z2 4 = Y1_X3_Z3 5 = Y1_X3_Z2 6 = Y1_X1_Z3 7 = Y1_X1_Z2					
F-1743	RDM_DC2_RWA		AACS				
Data Type: STATUS # Bits: 4 Start Bit: F-1238/03	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(3) Scale Factor: ns						
Bits 3,4,5,6 of the RedMan device configuration word 2 (RDM_DEV_CFG2 F/N-1238). Original RWA Config.							
Logic 0000 = NONE Logic 1000 = X Logic 0001 = S Logic 1001 = XS Logic 0010 = Z Logic 1010 = XZ Logic 0011 = ZS Logic 1011 = XZS Logic 0100 = Y Logic 1100 = XY Logic 0101 = YS Logic 1101 = XYS Logic 0110 = YZ Logic 1110 = XYZ Logic 0111 = YZS Logic 1111 = XYZS							
Loss of Function:							
Recommended Action:							
Impact of Loss of Tlm:							
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:</td> <td style="padding: 5px; vertical-align: top;">Conversion Type: N/A In Hysteresis: 0 Out Hysteresis: 0</td> <td style="padding: 5px; vertical-align: top;">State Names: 0 = NONE 1 = S 2 = Z 3 = ZS 4 = Y 5 = YS 6 = YZ 7 = YZS</td> <td style="padding: 5px; vertical-align: top;">8 = X 9 = XS 10 = XZ 10 = XZS 12 = XY 13 = XYS 14 = XYZ 15 = XYZS</td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A In Hysteresis: 0 Out Hysteresis: 0	State Names: 0 = NONE 1 = S 2 = Z 3 = ZS 4 = Y 5 = YS 6 = YZ 7 = YZS	8 = X 9 = XS 10 = XZ 10 = XZS 12 = XY 13 = XYS 14 = XYZ 15 = XYZS
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A In Hysteresis: 0 Out Hysteresis: 0	State Names: 0 = NONE 1 = S 2 = Z 3 = ZS 4 = Y 5 = YS 6 = YZ 7 = YZS	8 = X 9 = XS 10 = XZ 10 = XZS 12 = XY 13 = XYS 14 = XYZ 15 = XYZS				

SCP TELEMETRY

F-1747	RDM_DC2_FRWA	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1238/07	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(7) Scale Factor: ns	
Bit 7 of the RedMan device configuration word 2 (RDM_DEV_CFG2 F/N-1238). Freeze RWA Config. Logic 0 = Dynamic Logic 1 = Static		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DYNAMIC 1 = STATIC
F-1748	RDM_DC2_REA	AACS
Data Type: STATUS # Bits: 2 Start Bit: F-1238/08	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(8) Scale Factor: ns	
Bits 8,9 of the RedMan device configuration word 2 (RDM_DEV_CFG2 F/N-1238). Current REA Side. Logic 00 = Both Off Logic 10 = String 2 On Logic 01 = String 1 On Logic 11 = Both On		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BOTH_OFF 1 = STRING1_ON 2 = STRING2_ON 3 = BOTH_ON

SCP TELEMETRY

F-1750	RDM_DC2_SP10	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-1238/10	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(10) Scale Factor: ns				
Bit 10 of the RedMan device configuration word 2 (RDM_DEV_CFG2 F/N-1238). Spare bit.					
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = 0 1 = 1 </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1			
F-1751	RDM_DC2_SP11	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-1238/11	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(11) Scale Factor: ns				
Bit 11 of the RedMan device configuration word 2 (RDM_DEV_CFG2 F/N-1238). Spare bit.					
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = 0 1 = 1 </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1			

SCP TELEMETRY

F-1752	RDM_DC2_SP12	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1238/12	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(12) Scale Factor: ns	
Bit 12 of the RedMan device configuration word 2 (RDM_DEV_CFG2 F/N-1238). Spare bit.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
F-1753	RDM_DC2_SP13	AACS
Data Type: STATUS # Bits: 1 Start Bit: F-1238/13	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(13) Scale Factor: ns	
Bit 13 of the RedMan device configuration word 2 (RDM_DEV_CFG2 F/N-1238). Spare bit.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1

SCP TELEMETRY

F-1754	RDM_DC2_SP14	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-1238/14	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(14) Scale Factor: ns				
Bit 14 of the RedMan device configuration word 2 (RDM_DEV_CFG2 F/N-1238). Spare bit.					
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = 0 1 = 1 </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1			
F-1755	RDM_DC2_SP15	AACS			
Data Type: STATUS # Bits: 1 Start Bit: F-1238/15	Compool: REDMANCPL FSW Name: MAINDEVICECONFIGINFO(15) Scale Factor: ns				
Bit 15 of the RedMan device configuration word 2 (RDM_DEV_CFG2 F/N-1238). Spare bit.					
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = 0 1 = 1 </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1			

SCP TELEMETRY

F-1760	UPLS_CIUCARM		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1465/00	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(0) Scale Factor: ns		
Bit 0 of the Uplink Status word (UPLNK_STATUS F/N-1465). CIU Command Armed Logic 0 = No CIU commands armed Logic 1 = One valid CIU H/W command received			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FALSE 1 = 1	
F-1761	UPLS_CIUCREJ		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1465/01	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(1) Scale Factor: ns		
Bit 1 of the Uplink Status word (UPLNK_STATUS F/N-1465). CIU Command Rejected Logic 0 = No CIU commands rejected Logic 1 = Received CIU H/W command different from armed cmd			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FALSE 1 = 1	

SCP TELEMETRY

F-1762	UPLS_CIUCEXE		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1465/02	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(2) Scale Factor: ns		
Bit 2 of the Uplink Status word (UPLNK_STATUS F/N-1465). CIU Command Executed Logic 0 = No CIU commands executed Logic 1 = Two identiacl CIU H/W cmds received & executed			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FALSE 1 = 1	
F-1763	UPLS_DBLEERR		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1465/03	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(3) Scale Factor: ns		
Bit 3 of the Uplink Status word (UPLNK_STATUS F/N-1465). Double Error Logic 0 = Correct uplinked frame in bufferLogic 1 = Two or more errors in uplinked frame			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FALSE 1 = 1	

SCP TELEMETRY

F-1764	UPLS_SNG_ERR		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1465/04	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(4) Scale Factor: ns		
Bit 4 of the Uplink Status word (UPLNK_STATUS F/N-1465). Single Error Logic 0 = No error correction performed on uplinked command Logic 1 = Single error corrected			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FALSE 1 = 1	
F-1765	UPLS_DSTCODE		CDH
Data Type: STATUS # Bits: 2 Start Bit: F-1465/05	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(5) Scale Factor: ns		
Bits 5 and 6 of the Uplink Status word (UPLNK_STATUS F/N-1465). Destination Code Logic 00 = Not Used Logic 01 = Single SCP Command Logic 10 = CIU Hardware Decoded Command Logic 11 = Dual SCP Command			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_USED 1 = SNGL_SCP_CMD 2 = CIU_HW_CMD 3 = DUAL_SCP_CMD	

SCP TELEMETRY

F-1767	UPLS_DATA_FR		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1465/07	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(7) Scale Factor: ns		
Bit 7 of the Uplink Status word (UPLNK_STATUS F/N-1465). Data Frame Logic 0 = Command Frame in Buffer Logic 1 = Data Frame in Buffer			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = CMD_IN_BUFF 1 = DATA_IN_BUFF	
F-1768	UPLS_SPARE08		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1465/08	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(8) Scale Factor: ns		
Bit 8 of the Uplink Status word (UPLNK_STATUS F/N-1465). Spare bit. Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	

SCP TELEMETRY

F-1769	UPLS_SPARE09		CDH				
Data Type: STATUS # Bits: 1 Start Bit: F-1465/09	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(9) Scale Factor: ns						
Bit 9 of the Uplink Status word (UPLNK_STATUS F/N-1465). Spare bit. Logic 0 = 0 Logic 1 = 1							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm:							
Alternate Telemetry: Related Measurements: <table border="1" data-bbox="138 834 809 1066"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A CCL Process: OFF CCL Param: 0</td><td>State Names: 0 = 0 1 = 1</td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1					
F-1770	UPLS_SPARE10		CDH				
Data Type: STATUS # Bits: 1 Start Bit: F-1465/10	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(10) Scale Factor: ns						
Bit 10 of the Uplink Status word (UPLNK_STATUS F/N-1465). Spare bit. Logic 0 = 0 Logic 1 = 1							
Loss of Function: None							
Recommended Action:							
Impact of Loss of Tlm:							
Alternate Telemetry: Related Measurements: <table border="1" data-bbox="138 1721 809 1953"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A CCL Process: OFF CCL Param: 0</td><td>State Names: 0 = 0 1 = 1</td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1					

SCP TELEMETRY

F-1771	UPLS_SPARE11		CDH				
Data Type: STATUS # Bits: 1 Start Bit: F-1465/11	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(11) Scale Factor: ns						
Bit 11 of the Uplink Status word (UPLNK_STATUS F/N-1465). Spare bit. Logic 0 = 0 Logic 1 = 1							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm:							
Alternate Telemetry: Related Measurements: <table border="1" data-bbox="138 834 809 1066"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A CCL Process: OFF CCL Param: 0</td><td>State Names: 0 = 0 1 = 1</td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1					
F-1772	UPLS_SPARE12		CDH				
Data Type: STATUS # Bits: 1 Start Bit: F-1465/12	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(12) Scale Factor: ns						
Bit 12 of the Uplink Status word (UPLNK_STATUS F/N-1465). Spare bit. Logic 0 = 0 Logic 1 = 1							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm:							
Alternate Telemetry: Related Measurements: <table border="1" data-bbox="138 1721 809 1953"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A CCL Process: OFF CCL Param: 0</td><td>State Names: 0 = 0 1 = 1</td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1					

SCP TELEMETRY

F-1773	UPLS_BUF_RDY		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1465/13	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(13) Scale Factor: ns		
Bit 13 of the Uplink Status word (UPLNK_STATUS F/N-1465). Buffer Ready. Logic 0 = No new data in buffer Logic 1 = Uplinked data in buffer			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NO_NEW_DATA 1 = BUFFRD_DATA	
F-1774	UPLS_PICK_B		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1465/14	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(14) Scale Factor: ns		
Bit 14 of the Uplink Status word (UPLNK_STATUS F/N-1465). CDU Pick B Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	

SCP TELEMETRY

F-1775	UPLS_PICK_A		CDH
Data Type: STATUS # Bits: 1 Start Bit: F-1465/15	Compool: UPLINKCPL FSW Name: UPLINKSTATUS(15) Scale Factor: ns		
Bit 15 of the Uplink Status word (UPLNK_STATUS F/N-1465). CDU Pick A Logic 0 = 0 Logic 1 = 1			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0 1 = 1	
F-2001	BAT1_ASOC		PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: BATTASOC(0) Scale Factor: -2		
Actual state of battery charge (max capacity is 72,000 coulombs (20 Ahrs)) after temperature compensating for charge efficiency. Value = Integrated Charge * Efficiency Factor - Integrated Discharge Current limited to battery capacity. Calibrates BAT1_TSOC by resetting BAT1_TSOC = BAT1_ASOC at Day/Night transition. BAT1_ASOC can't be over 100% of battery capacity. BAT1_ASOC is more accurate than BAT1_TSOC during Day.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about battery state of charge. Ground must integrate TLM values.			
Alternate Telemetry: E-0105 (BAT1_CHRG_I), E-0106 (BAT1_DCHG_I), F-2013 (BAT1_TMP_AVE)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: coul CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 8.00000E+00	

SCP TELEMETRY

F-2002	BAT1_TSOC		PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: BATTSOC(0) Scale Factor: -2		
Theoretical battery state of charge (max is 120% of battery capacity of 72,000 coulombs (20 Ahrs)), calculated using a 100% battery efficiencies without temperature effects. This is summation of the amp-seconds that have gone in and out of the battery. The PMS monitors this parameter for contingency action by comparing to loaded thresholds. Normally BAT1_TSOC value is set to BAT1_ASOC value at Day/Night transition.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less batter charge info.			
Alternate Telemetry: E-0105 (BAT1_CHRG_I), E-0106 (BAT1_DCHG_I), F-2013 (BAT1_TMP_AVE)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: coul CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 8.00000E+00	
F-2003	BAT1_CDRATIO		PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: CDRATIO(0) Scale Factor: +11		
Temperature compensated charge/discharge ratio of battery 1. A charge/discharge ratio of 1.0 indicates the battery is at full state of charge. Value - Integrated Charge Current / Integrated Discharge Current, where integration starts at Day/Night transition.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Will require other means to determine value. Needed to evaluate battery performance.			
Alternate Telemetry: Use Integrated Charge and Integrated Discharge Current F-2006 (BAT1_INT_DCH), F-2005 (BAT1_INT_CHG)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: ratio CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.76562E-04	

SCP TELEMETRY

F-2004	BAT1_CDR_DN		PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: DNCDRATIO(0) Scale Factor: +11		
Temperature compensated charge/discharge ratio of battery 1 at the last Day/Night transition. A charge/discharge ratio of 1.0 indicates the battery is at full state of charge. This should be the maximum attained Integrated Charge Current / Integrated Discharge Current over the last charge period.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify PMS status. Info needed for proper power management. More difficult to monitor battery 1 energy balance and charging performance.			
Alternate Telemetry: F-2002 (BAT1_TSOC), F-2006) BAT1_INT_DCH			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: ratio CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.76562E-04	
F-2005	BAT1_INT_CHG		PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: INTGCHRG(0) Scale Factor: +0		
Temperature compensated integrated charge current of Battery 1, during present DAY time. Maximum is battery capacity of 72,000 coulombs (20 Ahrs). This parameter is used in the state of charge and charge to discharge ratio calculations. Value = Charge Current (2 second samples) * Time (2 seconds) summed from the last Day/Night transition to present. (Note - Not summed if value is below a cutoff threshold of 0.5 amps)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about battery charge current. Will require ground integration of charge account.			
Alternate Telemetry: Hardware BAT 1 charge current TLM (E-0105, BAT1_CHRG_I), ground must integrate alternate TLM over time.			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: coul CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E+00	

SCP TELEMETRY

F-2006	BAT1_INT_DCH	PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: INTGDCHG(0) Scale Factor: +0	
Integrated discharge current of Battery 1. Maximum is battery capacity of 72,000 coulombs (20 Ahrs). Value = Discharge Current (2 second samples) * Time (2 seconds) summed from the last Day/Night transition to present. The value at the transition equals battery capacity minus BAT1_ASOC. (Note - Not summed if value is below a cutoff threshold of 0.5 amps)		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less info about battery charge current. Will require ground integration of charge account.		
Alternate Telemetry: Hardware BAT 1 charge current TLM (E-0106, BAT1_DCHG_I), ground must integrate alternate TLM over time. Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: coul CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E+00
F-2007	BAT1_CHG_I	PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: CHRCURR(0) Scale Factor: +11	
Battery 1 charge current. Subcom telemetry maintained by flight software. Same as battery discharge current hardware telemetry. Values only differ when using software filtering.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less information about battery status. Needed to evaluate battery performance.		
Alternate Telemetry: F-2013 (BAT1_TMP_AVE), E-0105 (BAT1_CHRG_I) Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: amp CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.76562E-04

SCP TELEMETRY

F-2008	BAT1_CHG_I_F	PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: FILTCHRG(0) Scale Factor: +11	
Filtered charge current of battery 1 where Filter_Value(new) = A * Filter_Value(old) + B * New_Current.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Battery 1 current not readily available to flight software. Battery performance evalution degraded.		
Alternate Telemetry: F-2013 (BAT1_TMP_AVE), E-0105 (BAT1_CHRG_I)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: amp CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.76562E-04
F-2009	BAT1_DCH_I	PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: DCHGCURR(0) Scale Factor: +11	
Battery 1 discharge current. Subcom telemetry maintained by flight software. Same as battery discharge current hardware telemetry. Values only differ when using software filtering.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less info about battery discharge current. Needed for power management.		
Alternate Telemetry: E-0106, (BAT1_DCHG_I), F-2013 (BAT1_TMP_AVE)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: amp CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.76562E-04

SCP TELEMETRY

F-2010	BAT1_DCH_I_F	PWR			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: FILTDCHG(0) Scale Factor: +11				
Filtered discharge current of battery 1 where Filter_Value(new) = A * Filter_Value(old) + B * New_Current.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Battery 1 current not readily available to Flight Software. Ground must rely on hardware TLM.					
Alternate Telemetry: E-0106, (BAT1_DCHG_I), F-2013 (BAT1_TMP_AVE) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: amp CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 9.76562E-04 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: amp CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.76562E-04
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: amp CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.76562E-04			
F-2011	BAT1_TEMP_1	PWR			
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: PACKATEMP(0) Scale Factor: +8				
Filtered battery 1 temperature 1.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Less battery temperature info. Temp erature needed to evaluate battery performance.					
Alternate Telemetry: T-0200 (BAT1_T1), T-0201 (BAT1_T2), T-0202 (BAT2_T1), T-0203 (BAT2_T2) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: POLY EU Units: degC CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> Coefficients: n0 = 0.00000E+00 n1 = 7.81250E-03 </td></tr> </table>			Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: degC CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.81250E-03
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: degC CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.81250E-03			

SCP TELEMETRY

F-2012	BAT1_TEMP_2	PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: PACKBTEMP(0) Scale Factor: +8	
Filtered battery 1 temperature 2.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less battery temperature info. Temp erature needed to evaluate battery performance.		
Alternate Telemetry: T-0200 (BAT1_T1), T-0201 (BAT1_T2), T-0202 (BAT2_T1), T-0203 (BAT2_T2)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: degC CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.81250E-03
F-2013	BAT1_TMP_AVE	PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: AVRGTEMP(0) Scale Factor: +8	
Battery 1 average temperature.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less battery temperature info. Temperature needed to evaluate battery performance.		
Alternate Telemetry: T-0200 (BAT1_T1), T-0201 (BAT1_T2), T-0202 (BAT2_T1), T-0203 (BAT2_T2)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: degC CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.81250E-03

SCP TELEMETRY

F-2014	BAT1_TMP_GRD		PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: GRADTEMP(0) Scale Factor: +8		
Battery 1 temperature gradient.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less battery temperature info. Temperature needed to evaluate battery performance.			
Alternate Telemetry: T-0200 (BAT1_T1), T-0201 (BAT1_T2), T-0202 (BAT2_T1), T-0203 (BAT2_T2)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: degC CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.81250E-03	
F-2020	BAT1_BD_I_CT		PWR
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: BADCURRCNT(0) Scale Factor: ns		
Battery 1 bad current count.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2021	BAT1_BD_T_CT		PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: BADTEMPCNT(0) Scale Factor: ns					
Battery 1 bad temperature count.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-2022	BAT1_HI_D_CT		PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: DCHGHICNT(0) Scale Factor: ns					
Battery 1 high discharge count.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-2023	BAT1_HI_T_CT		PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: HITEMPCNT(0) Scale Factor: ns					
Battery 1 high temperature or high gradiant count.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-2024	BAT1_HI_V_CT		PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: VOLTHICNT(0) Scale Factor: ns					
Battery 1 high voltage count.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-2025	BAT1_DAY_CT		PWR
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: BCURDAYCNT(0) Scale Factor: ns		
Battery 1 current day count.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2026	BAT1_NTE_CT		PWR
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: BCURNITECNT(0) Scale Factor: ns		
Battery 1 current night count.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2030	BAT1_CP_CMD		PWR																											
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: POWERMGMTCPL FSW Name: CPCMD(0) Scale Factor: ns																													
Charge path for battery 1 as commanded by SCP. 0 = Primary, 4 = Disconnected, 8 = Backup, 14 = Noop																														
Loss of Function: N/A																														
Recommended Action:																														
Impact of Loss of Tlm: N/A																														
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td> <td style="width: 33%;">Conversion Type: N/A</td> <td style="width: 33%;">State Names:</td> </tr> <tr> <td>Test Type: DN</td> <td></td> <td>0 = Primary 8 = Backup</td> </tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td>1 = Invalid 9 = Invalid</td> </tr> <tr> <td>Red Alarm Mask:</td> <td></td> <td>2 = Invalid 10 = Invalid</td> </tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td>3 = Invalid 10 = Invalid</td> </tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td>4 = Disconnect 12 = Invalid</td> </tr> <tr> <td></td> <td></td> <td>5 = Invalid 13 = Invalid</td> </tr> <tr> <td></td> <td></td> <td>6 = Invalid 14 = Noop</td> </tr> <tr> <td></td> <td></td> <td>7 = Invalid 15 = Invalid</td> </tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names:	Test Type: DN		0 = Primary 8 = Backup	Red Alarm Type: OFF		1 = Invalid 9 = Invalid	Red Alarm Mask:		2 = Invalid 10 = Invalid	In Hysteresis: 0	CCL Process: OFF	3 = Invalid 10 = Invalid	Out Hysteresis: 0	CCL Param: 0	4 = Disconnect 12 = Invalid			5 = Invalid 13 = Invalid			6 = Invalid 14 = Noop			7 = Invalid 15 = Invalid
Time Type: ERT	Conversion Type: N/A	State Names:																												
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Out Hysteresis: 0	CCL Param: 0	4 = Disconnect 12 = Invalid																												
		5 = Invalid 13 = Invalid																												
		6 = Invalid 14 = Noop																												
		7 = Invalid 15 = Invalid																												
F-2031	BAT1_CP_TLM		PWR																											
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: POWERMGMTCPL FSW Name: CPTLM(0) Scale Factor: ns																													
Charge path telemetry for battery 1. 0 = Primary, 4 = Disconnect, 8 = Backup																														
Loss of Function: N/A																														
Recommended Action:																														
Impact of Loss of Tlm: N/A																														
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td> <td style="width: 33%;">Conversion Type: N/A</td> <td style="width: 33%;">State Names:</td> </tr> <tr> <td>Test Type: DN</td> <td></td> <td>0 = Primary 8 = Backup</td> </tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td>1 = Invalid 9 = Invalid</td> </tr> <tr> <td>Red Alarm Mask:</td> <td></td> <td>2 = Invalid 10 = Invalid</td> </tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td>3 = Invalid 10 = Invalid</td> </tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td>4 = Disconnect 12 = Invalid</td> </tr> <tr> <td></td> <td></td> <td>5 = Invalid 13 = Invalid</td> </tr> <tr> <td></td> <td></td> <td>6 = Invalid 14 = Invalid</td> </tr> <tr> <td></td> <td></td> <td>7 = Invalid 15 = Invalid</td> </tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names:	Test Type: DN		0 = Primary 8 = Backup	Red Alarm Type: OFF		1 = Invalid 9 = Invalid	Red Alarm Mask:		2 = Invalid 10 = Invalid	In Hysteresis: 0	CCL Process: OFF	3 = Invalid 10 = Invalid	Out Hysteresis: 0	CCL Param: 0	4 = Disconnect 12 = Invalid			5 = Invalid 13 = Invalid			6 = Invalid 14 = Invalid			7 = Invalid 15 = Invalid
Time Type: ERT	Conversion Type: N/A	State Names:																												
Test Type: DN		0 = Primary 8 = Backup																												
Red Alarm Type: OFF		1 = Invalid 9 = Invalid																												
Red Alarm Mask:		2 = Invalid 10 = Invalid																												
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		5 = Invalid 13 = Invalid																												
		6 = Invalid 14 = Invalid																												
		7 = Invalid 15 = Invalid																												

SCP TELEMETRY

F-2032	BAT1_CR_CMD	PWR
Data Type: STATUS # Bits: 2 Start Bit: 14	Compool: POWERMGMTCPL FSW Name: CRCMD(0) Scale Factor: ns	
Charge rate for battery 1 as commanded by SCP. 0 = 0.85 amps, 1 = 7.5 amps, 2 = 10 amps, 3 = 12.5 amps		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: N/A		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0.85_amp 1 = 7.5_amp 2 = 10_amp 3 = 12.5_amp
F-2033	BAT1_CR_TLM	PWR
Data Type: STATUS # Bits: 2 Start Bit: 14	Compool: POWERMGMTCPL FSW Name: CRTLM(0) Scale Factor: ns	
Charge rate telemetry for battery 1. 0 = 0.85 amps, 1 = 7.5 amps, 2 = 10 amps, 3 = 12.5 amps		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: N/A		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0.85_amp 1 = 7.5_amp 2 = 10_amp 3 = 12.5_amp

SCP TELEMETRY

F-2034	BAT1_VTS_CMD		PWR			
Data Type: STATUS # Bits: 1 Start Bit: 15	Compool: POWERMGMTCPL FSW Name: VTSHFTSCMD(0) Scale Factor: ns					
VT shift status commanded by SCP for battery 1. 0 = Unshifted, 1 = Shifted						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = Unshifted 1 = Shifted </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Unshifted 1 = Shifted
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Unshifted 1 = Shifted				
F-2035	BAT1_VTS_TLM		PWR			
Data Type: STATUS # Bits: 1 Start Bit: 15	Compool: POWERMGMTCPL FSW Name: VTSHFTSTLM(0) Scale Factor: ns					
VT shift status telemetry for battery 1. 0 = Unshifted, 1 = Shifted						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = Unshifted 1 = Shifted </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Unshifted 1 = Shifted
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Unshifted 1 = Shifted				

SCP TELEMETRY

F-2036	BAT1_VT_CMD		PWR
Data Type: STATUS # Bits: 3 Start Bit: 13	Compool: POWERMGMTCPL FSW Name: VTCMD(0) Scale Factor: ns		
VT curve commanded by SCP for battery 1. 0 = Curve 1, 1 = Curve 2, 2 = Curve 3, 3 = Curve 4, 4 = Curve 5, 5 = Curve 6, 6 = Curve 7, 7 = Curve 8			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Curve_1 1 = Curve_2 2 = Curve_3 3 = Curve_4 4 = Curve_5 5 = Curve_6 6 = Curve_7 7 = Curve_8	
F-2037	BAT1_VT_TLM		PWR
Data Type: STATUS # Bits: 3 Start Bit: 13	Compool: POWERMGMTCPL FSW Name: VTILM(0) Scale Factor: ns		
VT curve telemetry for battery 1. 0 = Curve 1, 1 = Curve 2, 2 = Curve 3, 3 = Curve 4, 4 = Curve 5, 5 = Curve 6, 6 = Curve 7, 7 = Curve 8			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Curve_1 1 = Curve_2 2 = Curve_3 3 = Curve_4 4 = Curve_5 5 = Curve_6 6 = Curve_7 7 = Curve_8	

SCP TELEMETRY

F-2040	BAT1_LAST_I		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: LASTCURRLM(0) Scale Factor: ns		
Last battery 1 charge and discharge input from EDF. Bits 0-7 = Charge Current. (E-0105) Bits 8-15 = Discharge Current. (E-0106)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Reduced availability of battery current information. Ability to manage batteries will be degraded.			
Alternate Telemetry: Check battery current in hardware telemetry.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-2041	BAT1_LAST_T		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: LASTTEMPTLM(0) Scale Factor: ns		
Last battery 1 temperature input from EDF. Bits 0-7 = Bat1 T1. (T-0200) Bits 8-15 = Bat1 T2. (T-0201)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of battery temp info. Information needed for battery management.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2051	BAT2_ASOC	PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: BATTASOC(1) Scale Factor: -2	
Actual state of battery charge (max capacity is 72,000 coulombs (20 Ahrs)) after temperature compensating for charge efficiency. Value = Integrated Charge * Efficiency Factor - Integrated Discharge Current limited to battery capacity. Calibrates BAT2_TSOC by resetting BAT2_TSOC = BAT2_ASOC at Day/Night transition. BAT2_ASOC can't be over 100% of battery capacity. BAT2_ASOC is more accurate than BAT2_TSOC during Day.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less info about battery state of charge.		
Alternate Telemetry: E-0115 (BAT2_CHRG_I), E-0116 (BAT2_DCHG_I), F-2063 (BAT2_TMP_AVE)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: coul CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 8.00000E+00
F-2052	BAT2_TSOC	PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: BATTTSOC(1) Scale Factor: -2	
Theoretical battery state of charge (max is 120% of battery capacity of 72,000 coulombs (20 Ahrs)), calculated using a 100% battery efficiencies without temperature effects. This is summation of the amp-seconds that have gone in and out of the battery. The PMS monitors this parameter for contingency action by comparing to loaded thresholds. Normally BAT2_TSOC value is set to BAT2_ASOC value at Day/Night transition.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less battery charge info.		
Alternate Telemetry: E-0115 (BAT2_CHRG_I), E-0116 (BAT2_DCHG_I), F-2063 (BAT2_TMP_AVE)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: coul CCL Process: ON CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 8.00000E+00

SCP TELEMETRY

F-2053	BAT2_CDRATIO		PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: CDRATIO(I) Scale Factor: +11		
Temperature compensated charge/discharge ratio of battery 2. A charge/discharge ratio of 1.0 indicates the battery is at full state of charge. Value - Integrated Charge Current / Integrated Discharge Current, where integration starts at Day/Night transition.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Will require other means to determine value. Needed to evaluate battery performance.			
Alternate Telemetry: F-2055 (BAT2_INT_CHG) and F-2056 (BAT2_INT_DCH)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: ratio CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.76562E-04	
F-2054	BAT2_CDR_DN		PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: DNCDRATIO(I) Scale Factor: +11		
Temperature compensated charge/discharge ratio of battery 2 at the last Day/Night transition. A charge/discharge ratio of 1.0 indicates the battery is at full state of charge. This should be the maximum attained Integrated Charge Current / Integrated Discharge Current over the last charge period.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify PMS status. Info needed for proper power management. More difficult to monitor battery 2 energy balance and charging performance.			
Alternate Telemetry: F-2051 (BAT2_ASOC), F-2052 (BAT2_TSOC), F-2056 (BAT2_INT_DCH)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: ratio CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.76562E-04	

SCP TELEMETRY

F-2055	BAT2_INT_CHG	PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: INTGCHRG(1) Scale Factor: +0	
Temperature compensated integrated charge current of Battery 2, during present DAY time. Maximum is battery capacity of 72,000 coulombs (20 Ahrs). This parameter is used in the state of charge and charge to discharge ratio calculations. Value = Charge Current (2 second samples) * Time (2 seconds) summed from the last Day/Night transition to present. (Note - Not summed if value is below a cutoff threshold of 0.5 amps)		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less info about battery charge current. Will require ground integration of charge account.		
Alternate Telemetry: E-0115 (BAT2_CHRG_I) ground must integrate alternate TLM over time.		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: coul CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E+00
F-2056	BAT2_INT_DCH	PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: INTGDCHG(1) Scale Factor: +0	
Integrated discharge current of Battery 2. Maximum is battery capacity of 72,000 coulombs (20 Ahrs). Value = Discharge Current (2 second samples) * Time (2 seconds) summed from the last Day/Night transition to present. The value at the transition equals battery capacity minus BAT2_ASOC. (Note - Not summed if value is below a cutoff threshold of 0.5 amps)		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less info about battery discharge current. Will require ground integration of charge account.		
Alternate Telemetry: E-0116 (BAT2_DCHG_I) ground must integrate alternate TLM over time.		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: coul CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 2.00000E+00

SCP TELEMETRY

F-2057	BAT2_CHG_I	PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: CHRGCURR(I) Scale Factor: +11	
Battery 2 charge current. Subcom telemetry maintained by flight software. Same as battery discharge current hardware telemetry. Values only differ when using software filtering.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Less info about battery status. Needed to evaluate battery performance.		
Alternate Telemetry: F-2063 (BAT2_TMP_AVE), E-0115 (BAT2_CHRG_I)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: amp CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.76562E-04
F-2058	BAT2_CHG_I_F	PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: FILTCHRG(I) Scale Factor: +11	
Filtered charge current of battery 2 where Filter_Value(new) = A * Filter_Value(old) + B * New_Current.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Battery 2 current not readily available to flight software. Battery performance evaluation degraded.		
Alternate Telemetry: E-0115 (BAT2_CHRG_I)		
Related Measurements:		
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: amp CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.76562E-04

SCP TELEMETRY

F-2059	BAT2_DCH_I		PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: DCHGCURR(I) Scale Factor: +11		
Battery 2 discharge current. Subcom telemetry maintained by flight software. Same as battery discharge current hardware telemetry. Values only differ when using software filtering.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less info about battery discharge current. Needed for power management.			
Alternate Telemetry: E-0116 (BAT2_DCHG_I), F-2063 (BAT2_TMP_AVE)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: amp CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.76562E-04	
F-2060	BAT2_DCH_I_F		PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: FILTDCHG(I) Scale Factor: +11		
Filtered discharge current of battery 1 where Filter_Value(new) = A * Filter_Value(old) + B * New_Current.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Battery 2 current not readily available to Flight Software. Ground must rely on hardware TLM.			
Alternate Telemetry: E-0116 (BAT2_DCHG_I)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: amp CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 9.76562E-04	

SCP TELEMETRY

F-2061	BAT2_TEMP_1		PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: PACKATEMP(1) Scale Factor: +8		
Filtered battery 2 temperature 1.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less battery temperature info. Temp erature needed to evaluate battery performance.			
Alternate Telemetry: T-0200 (BAT1_T1), T-0201 (BAT1_T2), T-0202 (BAT2_T1), T-0203 (BAT2_T2)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: degC CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.81250E-03	
F-2062	BAT2_TEMP_2		PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: PACKETEMP(1) Scale Factor: +8		
Filtered battery 2 temperature 2.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less battery temperatyre info. Temperature needed to evaluate battery performance.			
Alternate Telemetry: T-0200 (BAT1_T1), T-0201 (BAT1_T2), T-0202 (BAT2_T1), T-0203 (BAT2_T2)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: degC CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.81250E-03	

SCP TELEMETRY

F-2063	BAT2_TMP_AVE		PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: AVRGTEMP(1) Scale Factor: +8		
Battery 2 average temperature.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less battery temperature info. Temperature needed to evaluate battery performance.			
Alternate Telemetry: T-0200 (BAT1_T1), T-0201 (BAT1_T2), T-0202 (BAT2_T1), T-0203 (BAT2_T2)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: degC CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.81250E-03	
F-2064	BAT2_TMP_GRD		PWR
Data Type: SIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: GRADTEMP(1) Scale Factor: +8		
Battery 2 temperature gradient.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Less battery temperature info. Temperature needed to evaluate battery performance.			
Alternate Telemetry: T-0200 (BAT1_T1), T-0201 (BAT1_T2), T-0202 (BAT2_T1), T-0203 (BAT2_T2)			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: degC CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 7.81250E-03	

SCP TELEMETRY

F-2070	BAT2_BD_I_CT		PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: BADCURRCNT(I) Scale Factor: ns					
Battery 2 bad current count.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-2071	BAT2_BD_T_CT		PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: BADTEMPCNT(I) Scale Factor: ns					
Battery 2 bad temperature count.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; vertical-align: top;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px; vertical-align: top;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-2072	BAT2_HI_D_CT	PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: DCHGHICNT(I) Scale Factor: ns				
Battery 2 high discharge count.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				
F-2073	BAT2_HI_T_CT	PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: HITEMPCNT(I) Scale Factor: ns				
Battery 2 high temperature or high gradiant count.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: N/A					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 34%;"></td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0				

SCP TELEMETRY

F-2074	BAT2_HI_V_CT		PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: VOLTHICNT(I) Scale Factor: ns					
Battery 2 high voltage count.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-2075	BAT2_DAY_CT		PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: BCURDAYCNT(I) Scale Factor: ns					
Battery 2 current day count.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-2076		BAT2_NTE_CT	PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: BCURNITECNT(I) Scale Factor: ns					
Battery 2 current night count.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-2080		BAT2_CP_CMD	PWR			
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: POWERMGMTCPL FSW Name: CPCMD(I) Scale Factor: ns					
Charge path for battery 2 as commanded by SCP. 0 = Primary, 4 = Disconnect, 8 = Backup, 14 = Noop						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = Primary 8 = Backup 1 = Invalid 9 = Invalid 2 = Invalid 10 = Invalid 3 = Disconnect 10 = Invalid 4 = Invalid 12 = Invalid 5 = Invalid 13 = Invalid 6 = Invalid 14 = Noop 7 = Invalid 15 = Invalid </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Primary 8 = Backup 1 = Invalid 9 = Invalid 2 = Invalid 10 = Invalid 3 = Disconnect 10 = Invalid 4 = Invalid 12 = Invalid 5 = Invalid 13 = Invalid 6 = Invalid 14 = Noop 7 = Invalid 15 = Invalid
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Primary 8 = Backup 1 = Invalid 9 = Invalid 2 = Invalid 10 = Invalid 3 = Disconnect 10 = Invalid 4 = Invalid 12 = Invalid 5 = Invalid 13 = Invalid 6 = Invalid 14 = Noop 7 = Invalid 15 = Invalid				

SCP TELEMETRY

F-2081	BAT2_CP_TLM		PWR
Data Type: STATUS # Bits: 4 Start Bit: 12	Compool: POWERMGMTCPL FSW Name: CPTLM(1) Scale Factor: ns		
Charge path telemetry for battery 2. 0 = Primary, 4 = Disconnect, 8 = Backup			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Primary 1 = Invalid 2 = Invalid 3 = Invalid 4 = Disconnect 5 = Invalid 6 = Invalid 7 = Invalid	8 = Backup 9 = Invalid 10 = Invalid 10 = Invalid 12 = Invalid 13 = Invalid 14 = Invalid 15 = Invalid
F-2082	BAT2_CR_CMD		PWR
Data Type: STATUS # Bits: 2 Start Bit: 14	Compool: POWERMGMTCPL FSW Name: CRCMD(1) Scale Factor: ns		
Charge rate for battery 2 as commanded by SCP. 0 = 0.85 amps, 1 = 7.5 amps, 2 = 10 amps, 3 = 12.5 amps			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0.85_amp 1 = 7.5_amp 2 = 10_amp 3 = 12.5_amp	

SCP TELEMETRY

F-2083	BAT2_CR_TLM		PWR
Data Type: STATUS # Bits: 2 Start Bit: 14	Compool: POWERMGMTCPL FSW Name: CRTLM(1) Scale Factor: ns		
Charge rate telemetry for battery 2. 0 = 0.85 amps, 1 = 7.5 amps, 2 = 10 amps, 3 = 12.5 amps			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = 0.85_amp 1 = 7.5_amp 2 = 10_amp 3 = 12.5_amp	
F-2084	BAT2_VTS_CMD		PWR
Data Type: STATUS # Bits: 1 Start Bit: 15	Compool: POWERMGMTCPL FSW Name: VTSHFTSCMD(1) Scale Factor: ns		
VT shift status commanded by SCP for battery 2. 0 = Unshifted, 1 = Shifted			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Unshifted 1 = Shifted	

SCP TELEMETRY

F-2085	BAT2_VTS_TLM		PWR																		
Data Type: STATUS # Bits: 1 Start Bit: 15	Compool: POWERMGTCPL FSW Name: VTSHFTSTLM(1) Scale Factor: ns																				
VT shift status telemetry for battery 2. 0 = Unshifted, 1 = Shifted																					
Loss of Function: N/A																					
Recommended Action:																					
Impact of Loss of Tlm: N/A																					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td> <td style="width: 33%;">Conversion Type: N/A</td> <td style="width: 33%;">State Names: 0 = Unshifted 1 = Shifted</td> </tr> <tr> <td>Test Type: DN</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Mask:</td> <td></td> <td></td> </tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td></td> </tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td></td> </tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names: 0 = Unshifted 1 = Shifted	Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A	State Names: 0 = Unshifted 1 = Shifted																			
Test Type: DN																					
Red Alarm Type: OFF																					
Red Alarm Mask:																					
In Hysteresis: 0	CCL Process: OFF																				
Out Hysteresis: 0	CCL Param: 0																				
F-2086	BAT2_VT_CMD		PWR																		
Data Type: STATUS # Bits: 3 Start Bit: 13	Compool: POWERMGTCPL FSW Name: VTCMD(1) Scale Factor: ns																				
VT curve commanded by SCP for battery 2. 0 = Curve 1, 1 = Curve 2, 2 = Curve 3, 3 = Curve 4, 4 = Curve 5, 5 = Curve 6, 6 = Curve 7, 7 = Curve 8																					
Loss of Function: N/A																					
Recommended Action:																					
Impact of Loss of Tlm: N/A																					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td> <td style="width: 33%;">Conversion Type: N/A</td> <td style="width: 33%;">State Names: 0 = Curve_1 1 = Curve_2 2 = Curve_3 3 = Curve_4 4 = Curve_5 5 = Curve_6 6 = Curve_7 7 = Curve_8</td> </tr> <tr> <td>Test Type: DN</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Mask:</td> <td></td> <td></td> </tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td></td> </tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td></td> </tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names: 0 = Curve_1 1 = Curve_2 2 = Curve_3 3 = Curve_4 4 = Curve_5 5 = Curve_6 6 = Curve_7 7 = Curve_8	Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A	State Names: 0 = Curve_1 1 = Curve_2 2 = Curve_3 3 = Curve_4 4 = Curve_5 5 = Curve_6 6 = Curve_7 7 = Curve_8																			
Test Type: DN																					
Red Alarm Type: OFF																					
Red Alarm Mask:																					
In Hysteresis: 0	CCL Process: OFF																				
Out Hysteresis: 0	CCL Param: 0																				

SCP TELEMETRY

F-2087	BAT2_VT_TLM		PWR																					
Data Type: STATUS # Bits: 3 Start Bit: 13	Compool: POWERMGMTCPL FSW Name: VTILM(1) Scale Factor: ns																							
VT curve telemetry for battery 2. 0 = Curve 1, 1 = Curve 2, 2 = Curve 3, 3 = Curve 4, 4 = Curve 5, 5 = Curve 6, 6 = Curve 7, 7 = Curve 8																								
Loss of Function: N/A																								
Recommended Action:																								
Impact of Loss of Tlm: N/A																								
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td> <td style="width: 33%;">Conversion Type: N/A</td> <td style="width: 33%;">State Names: 0 = Curve_1 1 = Curve_2 2 = Curve_3 3 = Curve_4 4 = Curve_5 5 = Curve_6 6 = Curve_7 7 = Curve_8</td> </tr> <tr> <td>Test Type: DN</td> <td></td> <td></td></tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td></td></tr> <tr> <td>Red Alarm Mask:</td> <td></td> <td></td></tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td></td></tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td></td></tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names: 0 = Curve_1 1 = Curve_2 2 = Curve_3 3 = Curve_4 4 = Curve_5 5 = Curve_6 6 = Curve_7 7 = Curve_8	Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0				
Time Type: ERT	Conversion Type: N/A	State Names: 0 = Curve_1 1 = Curve_2 2 = Curve_3 3 = Curve_4 4 = Curve_5 5 = Curve_6 6 = Curve_7 7 = Curve_8																						
Test Type: DN																								
Red Alarm Type: OFF																								
Red Alarm Mask:																								
In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							
F-2090	BAT2_LAST_I		PWR																					
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: LASTCURRILM(1) Scale Factor: ns																							
Last battery 2 charge and discharge input from EDF. Bits 0-7 = Charge Current. (E-0115) Bits 8-15 = Discharge Current. (E-0116)																								
Loss of Function: N/A																								
Recommended Action:																								
Impact of Loss of Tlm: Reduced availability of battery current information. Ability to manage batteries will be degraded.																								
Alternate Telemetry: Check battery current in hardware telemetry. Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td> <td style="width: 33%;">Conversion Type: N/A</td> <td style="width: 33%;"></td> </tr> <tr> <td>Test Type: DN</td> <td></td> <td></td></tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td></td></tr> <tr> <td>Red Alarm Mask1:</td> <td>Valid Bit Mask: 0xFFFF</td> <td></td></tr> <tr> <td>Red Alarm Mask2:</td> <td>Event Status Mask: 0xFFFF</td> <td></td></tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td></td></tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td></td></tr> </table>				Time Type: ERT	Conversion Type: N/A		Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask1:	Valid Bit Mask: 0xFFFF		Red Alarm Mask2:	Event Status Mask: 0xFFFF		In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A																							
Test Type: DN																								
Red Alarm Type: OFF																								
Red Alarm Mask1:	Valid Bit Mask: 0xFFFF																							
Red Alarm Mask2:	Event Status Mask: 0xFFFF																							
In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							

SCP TELEMETRY

F-2091	BAT2_LAST_T		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: LASTTEMP TLM(1) Scale Factor: ns		
Last battery 2 temperature input from EDF. Bits 0-7 = Bat2 T1. (T-0202) Bits 8-15 = Bat2 T2. (T-0203)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of battery temp info. Information needed for battery management.			
Alternate Telemetry: None.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-2101	PSE_CMDSENT1		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: PSECMDSENT(1) Scale Factor: ns		
PSE command sent 1.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2102	PSE_CMDSENT2		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: PSECMDSENT(2) Scale Factor: ns		
PSE command sent 2.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-2103	PSE_CMDSENT3		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: PSECMDSENT(3) Scale Factor: ns		
PSE command sent 3.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2104	PSE_CMDSENT4		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: PSECMDSENT(4) Scale Factor: ns		
PSE command sent 4.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-2105	PSE_CMDSENT5		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: PSECMDSENT(5) Scale Factor: ns		
PSE command sent 5.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2106	PSE_CMDSENT6		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: PSECMDSENT(6) Scale Factor: ns		
PSE command sent 6.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-2107	PSE_CMDSENT7		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: PSECMDSENT(7) Scale Factor: ns		
PSE command sent 7.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2108	PSE_CMDSENT8		PWR			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: PSECMDSENT(8) Scale Factor: ns					
PSE command sent 8.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-2110	PSE_LAST_CMD		PWR			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: LASTPSECMD Scale Factor: ns					
Contains the last PSE command word sent to the CIU.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of PSE command history.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-2111	PSE_QFULL_CT		PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: PSEQUQUEFULLCOUNT Scale Factor: ns					
PSE command queue full count.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-2121	SCSC_DAY_CT		PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: SCSCDAYCNT Scale Factor: ns					
Solar cell short circuit current day count.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-2122	SCSC_NTE_CT		PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: SCSCNITECNT Scale Factor: ns					
Solar cell short circuit current night count.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-2123	SOLAR_DAY_CT		PWR			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGMT CPL FSW Name: SOLADAYCNT Scale Factor: ns					
Solar array current day count.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-2124	SOLAR_NTE_CT		PWR
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: SOLANITECNT Scale Factor: ns		
Solar array current night count.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2131	PWR_DATA_W01		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: SUBCOMCPL FSW Name: POWERDATA Scale Factor: ns		
Power data from EDF (Word 01), EDF-to-SCP 8-second analog data. Bits 0..7 - Battery 1 Charge Rate Status. (E-0104) Bits 8..15 - Battery 1 VT Limit Status. (E-0107)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2132	PWR_DATA_W07		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: SUBCOMCPL FSW Name: POWERDATA Scale Factor: ns		
Power data from EDF (Word 07), EDF-to-SCP 8-second analog data. Bits 0..7 - Battery 2 Charge Rate Status. (E-0114) Bits 8..15 - Battery 2 VT Limit Status. (E-0117)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-2133	PWR_DATA_W08		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: SUBCOMCPL FSW Name: POWERDATA Scale Factor: ns		
Power data from EDF (Word 08), EDF-to-SCP 2-second digital data. Bit 0 - Battery 1 VT Shift Status. (E-0006, MUX 0x810B-1) Bit 2 - Battery 1 Bu Charge Path Status. (E-0002, MUX 0x810B-3) Bit 7 - Battery 2 Pri Charge Path Status. (E-0011, MUX 0x810B-8) Bit 11 - Battery 2 VT Shift Status. (E-0016, MUX 0x810C-4) Bit 12 - Battery 1 Pri Charge Path Status. (E-0001, MUX 0x810C-5) Bit 13 - Battery 2 Bu Charge Path Status. (E-0012, MUX 0x810C-6)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2134	PWR_DATA_W09		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: SUBCOMCPL FSW Name: POWERDATA Scale Factor: ns		
Power data from EDF (Word 09), EDF-to-SCP 2-second digital data. Bit 2 - PSE BVR Primary Status. (E-0020, MUX 0x8117-3) Bit 5 - PSE MC Primary Status. (E-0022, MUX 0x8117-6) Bit 12 - PSE Command Side Status. (E-0021, MUX 0x811B-5)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-2135	PWR_DATA_W10		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: SUBCOMCPL FSW Name: POWERDATA Scale Factor: ns		
Power data from EDF (Word 10), EDF-to-SCP 8-second analog data. Bits 0..7 - Solar Array Output Current. (E-0130) Bits 8..15 - Solar Array -Y Isc. (E-0134)			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2140	PWR_ENA_WORD		PWR			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE Scale Factor: ns					
Telemetry Word containing 14 status flags for enabling power management functions. Individual bit channels F/N-2200 thru F/N-2213.						
Bit 0 - Bat1 Temp Cntl, Enab VT- (BCR) DTC cmds Bit 1 - Bat2 Temp Cntl, Enab VT- (BCR) DTC cmds Bit 2 - Bat1 Curr Filt, Enab use of filtered current Bit 3 - Bat2 Curr Filt, Enab use of filtered current Bit 4 - Bat1 Chrg Cntl, Enab VT-, Trckl rate cmds Bit 5 - Bat2 Chrg Cntl, Enab VT-, Trckl rate cmds Bit 6 - Bat1 Chrg Rate Reset, Enab default rate cmd Bit 7 - Bat2 Chrg Rate Reset, Enab default rate cmd Bit 8 - BCR Switch 1, Enab BU BCR cmd Bit 9 - BCR Switch 2, Enab BU BCR cmd Bit 10 - Cntg Alert, Enab load shed action Bit 11 - Tlm Verify, Enab PSE cmd verify Bit 12 - Ingress Script, Enab ingress script Bit 13 - Egress Script, Enab egress script Bit 14 - not used Bit 15 - not used						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-2145	PWR_FLGS_WRD		PWR			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGMTCPL FSW Name: POWERFLAGS Scale Factor: ns					
Telemetry Word containing 16 power status flags showing actions needed. Individual bit channels F/N-2220 thru F/N-2235.						
Bit 0 - Both Batteries Low SOC, Need Contg Bit 1 - Bat1 Low SOC, Need BCR Bit 2 - Bat1 Hi Dschrg on Trickle, Need CRR Bit 3 - Bat1 CDR & Volt Hi, Need Trickle Bit 4 - Bat1 CDR Low @Eclipse, Need VT Bit 5 - Bat1 Temp > 3rd Warn, Need DTC Bit 6 - Bat1 Temp > 2nd Warn, BCR'Temp Bit 7 - Bat1 Temp > 1st Warn, Need VT Bit 8 - Both Batteries are Charging Bit 9 - Bat2 Low SOC, Need BCR Bit 10 - Bat2 Hi Dschrg on Trickle, Need CRR Bit 11 - Bat2 CDR & Volt Hi, Need Trickle Bit 12 - Bat2 CDR Low @Eclipse, Need VT Bit 13 - Bat2 Temp > 3rd Warn, Need DTC Bit 14 - Bat2 Temp > 2nd Warn, BCR'Temp Bit 15 - Bat2 Temp > 1st Warn, Need VT						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-2150	PWR_STAT_WRD		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: POWERSTATUS Scale Factor: ns		
Telemetry Word containing 16 power status flags showing actions taken. Individual bit channels F/N-2240 thru F/N-2255.			
Bit 0 - Backup Mode Controller Commanded	Bit 8 - Sun on Solar Array		
Bit 1 - Bat1 Lower VT Command Sent	Bit 9 - Bat2 Lower VT Command Sent		
Bit 2 - Bat1 Charge Rate Reset Cmd Sent	Bit 10 - Bat2 Charge Rate Reset Cmd Sent		
Bit 3 - Bat1 Invalid Current Telemetry	Bit 11 - Bat2 Invalid Current Telemetry		
Bit 4 - Bat1 DTC Command Sent	Bit 12 - Bat2 DTC Command Sent		
Bit 5 - Bat1 BCR Command Sent	Bit 13 - Bat2 BCR Command Sent		
Bit 6 - Bat1 VT Command Sent	Bit 14 - Bat2 VT Command Sent		
Bit 7 - Bat1 Invalid Temperature Telemetry	Bit 15 - Bat2 Invalid Temperature Telemetry		
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-2155	VERIFY_STAT		PWR
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: POWERMGTCPL FSW Name: VERIFYSTATUS Scale Factor: ns		
Contains 16 PSE command verification flags. Individual Bit channels: F/N-2260 thru F/N-2275.			
Command Verified Waiting for next Cmd	Command Sent Waiting for Verification		
Bat1 VT Limit Select	Bit 0	Bit 8	
Bat2 VT Limit Select	Bit 1	Bit 9	
Both VT Limits Select	Bit 2	Bit 10	
Bat1 Charge Rate Select	Bit 3	Bit 11	
Bat2 Charge Rate Select	Bit 4	Bit 12	
Both Charge Rates Select	Bit 5	Bit 13	
BU MC, BVR Select	Bit 6	Bit 14	
Charge Path Select	Bit 7	Bit 15	
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2200	PE00_B1TCntl	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2140/00	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE(0) Scale Factor: ns	
Bit 0 of the Power Management Enable Word (PWR_ENA_WORD F/N-2140). Indicates enable status of battery 1 temperature control commands.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled
F-2201	PE01_B2TCntl	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2140/01	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE(1) Scale Factor: ns	
Bit 1 of the Power Management Enable Word (PWR_ENA_WORD F/N-2140). Indicates enable status of battery 2 temperature control commands.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled

SCP TELEMETRY

F-2202	PE02_B1IFilt	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2140/02	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE(2) Scale Factor: ns	
Bit 2 of the Power Management Enable Word (PWR_ENA_WORD F/N-2140). Indicates enable status of battery 1 current filter.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled
F-2203	PE03_B2IFilt	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2140/03	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE(3) Scale Factor: ns	
Bit 3 of the Power Management Enable Word (PWR_ENA_WORD F/N-2140). Indicates enable status of battery 2 current filter.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled

SCP TELEMETRY

F-2204	PE04_B1ChCnt	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2140/04	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE(4) Scale Factor: ns	
Bit 4 of the Power Management Enable Word (PWR_ENA_WORD F/N-2140). Indicates enable status of battery1 charge rate control commands.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled
F-2205	PE05_B2ChCnt	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2140/05	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE(5) Scale Factor: ns	
Bit 5 of the Power Management Enable Word (PWR_ENA_WORD F/N-2140). Indicates enable status of battery 2 charge rate control commands.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled

SCP TELEMETRY

F-2206	PE06_B1ChRtR	PWR			
Data Type: STATUS # Bits: 1 Start Bit: F-2140/06	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE(6) Scale Factor: ns				
Bit 6 of the Power Management Enable Word (PWR_ENA_WORD F/N-2140). Indicates enable status of battery 1 default charge rate command.					
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = Disabled 1 = Enabled </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled			
F-2207	PE07_B2ChRtR	PWR			
Data Type: STATUS # Bits: 1 Start Bit: F-2140/07	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE(7) Scale Factor: ns				
Bit 7 of the Power Management Enable Word (PWR_ENA_WORD F/N-2140). Indicates enable status of battery 2 default charge rate command.					
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = Disabled 1 = Enabled </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled			

SCP TELEMETRY

F-2208	PE08_BCR_Sw1	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2140/08	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE(8) Scale Factor: ns	
Bit 8 of the Power Management Enable Word (PWR_ENA_WORD F/N-2140). Indicates enable status of battery 1 backup BCR command.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled
F-2209	PE09_BCR_Sw2	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2140/09	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE(9) Scale Factor: ns	
Bit 9 of the Power Management Enable Word (PWR_ENA_WORD F/N-2140). Indicates enable status of battery 2 backup BCR command.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled

SCP TELEMETRY

F-2210	PE10_CntAlrt	PWR			
Data Type: STATUS # Bits: 1 Start Bit: F-2140/10	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE(10) Scale Factor: ns				
Bit 10 of the Power Management Enable Word (PWR_ENA_WORD F/N-2140). Indicates enable status of load shed actions.					
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = Disabled 1 = Enabled </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled			
F-2211	PE11_TlmVerf	PWR			
Data Type: STATUS # Bits: 1 Start Bit: F-2140/11	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE(11) Scale Factor: ns				
Bit 11 of the Power Management Enable Word (PWR_ENA_WORD F/N-2140). Indicates enable status of PSE command verification.					
Loss of Function:					
Recommended Action:					
Impact of Loss of Tlm:					
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = Disabled 1 = Enabled </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled			

SCP TELEMETRY

F-2212	PE12_IScript	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2140/12	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE(12) Scale Factor: ns	
Bit 12 of the Power Management Enable Word (PWR_ENA_WORD F/N-2140). Indicates enable status of eclipse ingress script.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled
F-2213	PE13_EScript	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2140/13	Compool: POWERMGMTRESET FSW Name: POWERMGMTENABLE(13) Scale Factor: ns	
Bit 13 of the Power Management Enable Word (PWR_ENA_WORD F/N-2140). Indicates enable status of eclipse egress script.		
Loss of Function:		
Recommended Action:		
Impact of Loss of Tlm:		
Alternate Telemetry: Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = Disabled 1 = Enabled

SCP TELEMETRY

F-2220	PF00_B1B2Low	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2145/00	Compool: POWERMGMTCPL FSW Name: POWERFLAGS(0) Scale Factor: ns	
Bit 0 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates low state of charge for both batteries.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = LOW_SOC
F-2221	PF01_B1LoSOC	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2145/01	Compool: POWERMGMTCPL FSW Name: POWERFLAGS(1) Scale Factor: ns	
Bit 1 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates low state of charge for battery 1.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = LOW_SOC

SCP TELEMETRY

F-2222	PF02_B1HiDcg	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2145/02	Compool: POWERMGMTCPL FSW Name: POWERFLAGS(2) Scale Factor: ns	
Bit 2 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates battery 1 is on trickle charge and the discharge current is high.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = HIGH_DSGonTR
F-2223	PF03_B1cdrHi	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2145/03	Compool: POWERMGMTCPL FSW Name: POWERFLAGS(3) Scale Factor: ns	
Bit 3 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates battery 1 charge to discharge ratio and voltage is high.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = CDR_HiNeedTR

SCP TELEMETRY

F-2224	PF04_B1cdrLo	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2145/04	Compool: POWERMGMTCPL FSW Name: POWERFLAGS(4) Scale Factor: ns	
Bit 4 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates battery 1 charge to discharge ratio is low at the start of eclipse.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = CDR_LoAtINGR
F-2225	PF05_B1T3rdW	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2145/05	Compool: POWERMGMTCPL FSW Name: POWERFLAGS(5) Scale Factor: ns	
Bit 5 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates battery 1 temperature is above the 3rd warning limit.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = 3rd_WARNING

SCP TELEMETRY

F-2226	PF06_B1T2ndW	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2145/06	Compool: POWERMGTCPL FSW Name: POWERFLAGS(6) Scale Factor: ns	
Bit 6 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates battery 1 temperature is above the 2nd warning limit.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = 2nd_WARNING
F-2227	PF07_B1T1stW	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2145/07	Compool: POWERMGTCPL FSW Name: POWERFLAGS(7) Scale Factor: ns	
Bit 7 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates battery 1 temperature is above the 1st warning limit.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = 1st_WARNING

SCP TELEMETRY

F-2228	PF08_B1B2Chg	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2145/08	Compool: POWERMGTCPL FSW Name: POWERFLAGS(8) Scale Factor: ns	
Bit 8 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates both batteries have positive charge current.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_CHARGING 1 = CHARGING
F-2229	PF09_B2LoSOC	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2145/09	Compool: POWERMGTCPL FSW Name: POWERFLAGS(9) Scale Factor: ns	
Bit 9 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates low state of charge for battery 2.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = LOW_SOC

SCP TELEMETRY

F-2230	PF10_B2HiDcg	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2145/10	Compool: POWERMGMTCPL FSW Name: POWERFLAGS(10) Scale Factor: ns	
Bit 10 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates battery 2 is on trickle charge and the discharge current is high.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = HIGH_DSGonTR
F-2231	PF11_B2cdrHi	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2145/11	Compool: POWERMGMTCPL FSW Name: POWERFLAGS(11) Scale Factor: ns	
Bit 11 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates battery 2 charge to discharge ratio and voltage is high.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = CDR_HiNeedTR

SCP TELEMETRY

F-2232	PF12_B2cdrLo	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2145/12	Compool: POWERMGTCPL FSW Name: POWERFLAGS(12) Scale Factor: ns	
Bit 12 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates battery 2 charge to discharge ratio is low at the start of eclipse.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = CDR_LoAtINGR
F-2233	PF13_B2T3rdW	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2145/13	Compool: POWERMGTCPL FSW Name: POWERFLAGS(13) Scale Factor: ns	
Bit 13 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates battery 2 temperature is above the 3rd warning limit.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = 3rd_WARNING

SCP TELEMETRY

F-2234	PF14_B2T2ndW	PWR			
Data Type: STATUS # Bits: 1 Start Bit: F-2145/14	Compool: POWERMGMTCPL FSW Name: POWERFLAGS(14) Scale Factor: ns				
Bit 14 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates battery 2 temperature is above the 2nd warning limit.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = OK 1 = 2nd_WARNING </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = 2nd_WARNING
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = 2nd_WARNING			
F-2235	PF15_B2T1stW	PWR			
Data Type: STATUS # Bits: 1 Start Bit: F-2145/15	Compool: POWERMGMTCPL FSW Name: POWERFLAGS(15) Scale Factor: ns				
Bit 15 of the Power Flags Status Word (PWR_FLGS_WRD F/N-2145). Indicates battery 2 temperature is above the 1st warning limit.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of battery status info. Battery warnings will be lost.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = OK 1 = 1st_WARNING </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = 1st_WARNING
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = 1st_WARNING			

SCP TELEMETRY

F-2240	PS00_MC_Cmds	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/00	Compool: POWERMGTCPL FSW Name: POWERSTATUS(0) Scale Factor: ns	
Bit 0 of the Power Status Word (PWR_STAT_WRD F/N-2150). Backup mode controller commanded; Low SOC for both batteries.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = No_Action 1 = BU_MC_CMD
F-2241	PS01_B1_LwVT	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/01	Compool: POWERMGTCPL FSW Name: POWERSTATUS(1) Scale Factor: ns	
Bit 1 of the Power Status Word (PWR_STAT_WRD F/N-2150). Battery 1 charge rate increased by lowering VT index.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = No_Action 1 = LOWER_VT_CMD

SCP TELEMETRY

F-2242	PS02_B1_CRR	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/02	Compool: POWERMGTCPL FSW Name: POWERSTATUS(2) Scale Factor: ns	
Bit 2 of the Power Status Word (PWR_STAT_WRD F/N-2150). Battery 1 charge rate reset to default from trickle.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = No_Action 1 = ChrgRt_RESET
F-2243	PS03_B1_Itlm	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/03	Compool: POWERMGTCPL FSW Name: POWERSTATUS(3) Scale Factor: ns	
Bit 3 of the Power Status Word (PWR_STAT_WRD F/N-2150). Battery 1 current telemetry invalid.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = TLM_Valid 1 = INVALID_I_TLM

SCP TELEMETRY

F-2244	PS04_B1_DTC	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/04	Compool: POWERMGMTCPL FSW Name: POWERSTATUS(4) Scale Factor: ns	
Bit 4 of the Power Status Word (PWR_STAT_WRD F/N-2150). Battery 1 very high temperature, DTC commanded		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = No_Action 1 = DTC_CMD_SENT
F-2245	PS05_B1_BCR	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/05	Compool: POWERMGMTCPL FSW Name: POWERSTATUS(5) Scale Factor: ns	
Bit 5 of the Power Status Word (PWR_STAT_WRD F/N-2150). Battery 1 backup charge regulator commanded (Due to high temperature or low SOC).		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = No_Action 1 = BCR_CMD_SENT

SCP TELEMETRY

F-2246	PS06_B1_VT	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/06	Compool: POWERMGTCPL FSW Name: POWERSTATUS(6) Scale Factor: ns	
Bit 6 of the Power Status Word (PWR_STAT_WRD F/N-2150). Battery 1 charge rate reduced (Due to high temperature).		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = No_Action 1 = VT_CMD_SENT
F-2247	PS07_B1_TtIm	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/07	Compool: POWERMGTCPL FSW Name: POWERSTATUS(7) Scale Factor: ns	
Bit 7 of the Power Status Word (PWR_STAT_WRD F/N-2150). Battery 1 temperature telemetry invalid.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = TLM_Valid 1 = INVALID_T_TLM

SCP TELEMETRY

F-2248	PS08_SUN_ON	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/08	Compool: POWERMGMTCPL FSW Name: POWERSTATUS(8) Scale Factor: ns	
Bit 8 of the Power Status Word (PWR_STAT_WRD F/N-2150). Sun on Solar Array.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = No_Action 1 = SUN_ON_ARRAY
F-2249	PS09_B2_LwVT	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/09	Compool: POWERMGMTCPL FSW Name: POWERSTATUS(9) Scale Factor: ns	
Bit 9 of the Power Status Word (PWR_STAT_WRD F/N-2150). Battery 2 charge rate increased by lowering VT index.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = No_Action 1 = LOWER_VT_CMD

SCP TELEMETRY

F-2250	PS10_B2_CRR	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/10	Compool: POWERMGTCPL FSW Name: POWERSTATUS(10) Scale Factor: ns	
Bit 10 of the Power Status Word (PWR_STAT_WRD F/N-2150). Battery 2 charge rate reset to default from trickle.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = No_Action 1 = ChrgRt_RESET
F-2251	PS11_B2_Itlm	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/11	Compool: POWERMGTCPL FSW Name: POWERSTATUS(11) Scale Factor: ns	
Bit 11 of the Power Status Word (PWR_STAT_WRD F/N-2150). Battery 2 current telemetry invalid.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = TLM_Valid 1 = INVALID_I_TLM

SCP TELEMETRY

F-2252	PS12_B2_DTC	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/12	Compool: POWERMGMTCPL FSW Name: POWERSTATUS(12) Scale Factor: ns	
Bit 12 of the Power Status Word (PWR_STAT_WRD F/N-2150). Battery 2 very high temperature, DTC commanded		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = No_Action 1 = DTC_CMD_SENT
F-2253	PS13_B2_BCR	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/13	Compool: POWERMGMTCPL FSW Name: POWERSTATUS(13) Scale Factor: ns	
Bit 13 of the Power Status Word (PWR_STAT_WRD F/N-2150). Battery 2 backup charge regulator commanded (Due to high temperature or low SOC).		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = No_Action 1 = BCR_CMD_SENT

SCP TELEMETRY

F-2254	PS14_B2_VT	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/14	Compool: POWERMGTCPL FSW Name: POWERSTATUS(14) Scale Factor: ns	
Bit 14 of the Power Status Word (PWR_STAT_WRD F/N-2150). Battery 2 charge rate reduced (Due to high temperature).		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = No_Action 1 = VT_CMD_SENT
F-2255	PS15_B2_TtIm	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2150/15	Compool: POWERMGTCPL FSW Name: POWERSTATUS(15) Scale Factor: ns	
Bit 15 of the Power Status Word (PWR_STAT_WRD F/N-2150). Battery 2 temperature telemetry invalid.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of battery / mode controller status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = TLM_Valid 1 = INVALID_T_TLM

SCP TELEMETRY

F-2260	VS00_B1_VT	PWR			
Data Type: STATUS # Bits: 1 Start Bit: F-2155/00	Compool: POWERMGTCPL FSW Name: VERIFYSTAT(0) Scale Factor: ns				
Bit 0 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Battery 1 VT Limit Command Verified, waiting for next command.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;">Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:</td> <td style="width: 33%; padding: 5px; vertical-align: top;">Conversion Type: N/A In Hysteresis: 0 Out Hysteresis: 0</td> <td style="width: 33%; padding: 5px; vertical-align: top;">State Names: 0 = RESET 1 = CMD_VERIFIED CCL Process: OFF CCL Param: 0</td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A In Hysteresis: 0 Out Hysteresis: 0	State Names: 0 = RESET 1 = CMD_VERIFIED CCL Process: OFF CCL Param: 0
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A In Hysteresis: 0 Out Hysteresis: 0	State Names: 0 = RESET 1 = CMD_VERIFIED CCL Process: OFF CCL Param: 0			
F-2261	VS01_B2_VT	PWR			
Data Type: STATUS # Bits: 1 Start Bit: F-2155/01	Compool: POWERMGTCPL FSW Name: VERIFYSTAT(1) Scale Factor: ns				
Bit 1 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Battery 2 VT Limit Command Verified, waiting for next command.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;">Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:</td> <td style="width: 33%; padding: 5px; vertical-align: top;">Conversion Type: N/A In Hysteresis: 0 Out Hysteresis: 0</td> <td style="width: 33%; padding: 5px; vertical-align: top;">State Names: 0 = RESET 1 = CMD_VERIFIED CCL Process: OFF CCL Param: 0</td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A In Hysteresis: 0 Out Hysteresis: 0	State Names: 0 = RESET 1 = CMD_VERIFIED CCL Process: OFF CCL Param: 0
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A In Hysteresis: 0 Out Hysteresis: 0	State Names: 0 = RESET 1 = CMD_VERIFIED CCL Process: OFF CCL Param: 0			

SCP TELEMETRY

F-2262	VS02_B1B2_VT	PWR			
Data Type: STATUS # Bits: 1 Start Bit: F-2155/02	Compool: POWERMGTCPL FSW Name: VERIFYSTAT(2) Scale Factor: ns				
Bit 2 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Both Battery VT Limit Select Command Verified, waiting for next command.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = RESET 1 = CMD_VERIFIED </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_VERIFIED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_VERIFIED			
F-2263	VS03_B1_CR	PWR			
Data Type: STATUS # Bits: 1 Start Bit: F-2155/03	Compool: POWERMGTCPL FSW Name: VERIFYSTAT(3) Scale Factor: ns				
Bit 3 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Battery 1 Charge Rate Command Verified, waiting for next command.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = RESET 1 = CMD_VERIFIED </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_VERIFIED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_VERIFIED			

SCP TELEMETRY

F-2264	VS04_B2_CR	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2155/04	Compool: POWERMGTCPL FSW Name: VERIFYSTAT(4) Scale Factor: ns	
Bit 4 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Battery 2 Charge Rate Command Verified, waiting for next command.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_VERIFIED
F-2265	VS05_B1B2_CR	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2155/05	Compool: POWERMGTCPL FSW Name: VERIFYSTAT(5) Scale Factor: ns	
Bit 5 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Both Battery Charge Rate Select Command Verified, waiting for next command.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_VERIFIED

SCP TELEMETRY

F-2266	VS06_MC_BVR	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2155/06	Compool: POWERMGMTCPL FSW Name: VERIFYSTAT(6) Scale Factor: ns	
Bit 6 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Backup Mode Controller and Boost Voltage Regulator Command Verified, waiting for next command.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_VERIFIED
F-2267	VS07_CHGPATH	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2155/07	Compool: POWERMGMTCPL FSW Name: VERIFYSTAT(7) Scale Factor: ns	
Bit 7 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Charge Path Command Verified, waiting for next command.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.		
Alternate Telemetry: None		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_VERIFIED

SCP TELEMETRY

F-2268	VS08_B1_VT	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2155/08	Compool: POWERMGTCPL FSW Name: VERIFYSTAT(8) Scale Factor: ns	
Bit 8 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Battery 1 VT Limit Command Sent, waiting for verification.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_SENT
F-2269	VS09_B2_VT	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2155/09	Compool: POWERMGTCPL FSW Name: VERIFYSTAT(9) Scale Factor: ns	
Bit 9 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Battery 2 VT Limit Command Sent, waiting for verification.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_SENT

SCP TELEMETRY

F-2270	VS10_B1B2_VT	PWR			
Data Type: STATUS # Bits: 1 Start Bit: F-2155/10	Compool: POWERMGMTCPL FSW Name: VERIFYSTAT(10) Scale Factor: ns				
Bit 10 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Both Battery VT Limit Select Command Sent, waiting for verification.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> State Names: 0 = RESET 1 = CMD_SENT </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_SENT
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_SENT			
F-2271	VS11_B1_CR	PWR			
Data Type: STATUS # Bits: 1 Start Bit: F-2155/11	Compool: POWERMGMTCPL FSW Name: VERIFYSTAT(11) Scale Factor: ns				
Bit 11 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Battery 1 Charge Rate Command Sent, waiting for verification.					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%;"> State Names: 0 = RESET 1 = CMD_SENT </td></tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_SENT
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_SENT			

SCP TELEMETRY

F-2272	VS12_B2_CR	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2155/12	Compool: POWERMGTCPL FSW Name: VERIFYSTAT(12) Scale Factor: ns	
Bit 12 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Battery 2 Charge Rate Command Sent, waiting for verification.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_SENT
F-2273	VS13_B1B2_CR	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2155/13	Compool: POWERMGTCPL FSW Name: VERIFYSTAT(13) Scale Factor: ns	
Bit 13 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Both Battery Charge Rate Select Command Sent, waiting for verification.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.		
Alternate Telemetry: None. Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_SENT

SCP TELEMETRY

F-2274	VS14_MC_BVR	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2155/14	Compool: POWERMGMTCPL FSW Name: VERIFYSTAT(14) Scale Factor: ns	
Bit 14 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Backup Mode Controller and Boost Voltage Regulator Command Sent, waiting for verification.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.		
Alternate Telemetry: None. Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_SENT
F-2275	VS15_CHGPATH	PWR
Data Type: STATUS # Bits: 1 Start Bit: F-2155/15	Compool: POWERMGMTCPL FSW Name: VERIFYSTAT(15) Scale Factor: ns	
Bit 15 of the PSE command verification flags word (PSE_VER_WRD F/N-2155). Charge Path Command Sent, waiting for verification.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Loss of status record of PSE commands. Status will have to be verified by other means.		
Alternate Telemetry: None. Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_SENT

SCP TELEMETRY

F-2280	POWER_TIME		PWR				
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: CYCEXECCPL FSW Name: POWERTIME Scale Factor: ns						
1 second timer used for power computations.							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: None							
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 30%;"></td><td style="width: 30%;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0						
F-2500	BSC_EM-X_T1		THRM				
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(0) Scale Factor: ns						
Consecutive number of times temperature for "EM-X_PNL_T1" (T-0272), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.							
Loss of Function: N/A							
Recommended Action:							
Impact of Loss of Tlm: No cumulative record of temperature anomalies.							
Alternate Telemetry: F-2740 (DWF_EM-X) Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td><td style="width: 30%;"></td><td style="width: 30%;"></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0						

SCP TELEMETRY

F-2501	BSC_EM+X_T1		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(1) Scale Factor: ns		
Consecutive number of times temperature for "EM+X_PNL_T1" (T-0270), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2755 (DWF_EM+X)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2502	BSC_EM+Y_T1		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(2) Scale Factor: ns		
Consecutive number of times temperature for "EM+Y_PNL_T1" (T-0274), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2753 (DWF_EM+Y)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2503	BSC_BAT1_T1		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(3) Scale Factor: ns		
Consecutive number of times temperature for "BAT1_T1" (T-0200), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2742 (DWF_BATTERY)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2504	BSC_BAT1_T2		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(4) Scale Factor: ns		
Consecutive number of times temperature for "BAT1_T2" (T-0201), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2742 (DWF_BATTERY)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2505	BSC_BAT2_T1		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(5) Scale Factor: ns		
Consecutive number of times temperature for "BAT2_T1" (T-0202), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2742 (DWF_BATTERY)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2506	BSC_BAT2_T2		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(6) Scale Factor: ns		
Consecutive number of times temperature for "BAT2_T2" (T-0203), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2742 (DWF_BATTERY)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2507	BSC_THR_CL1T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(7) Scale Factor: ns		
Consecutive number of times temperature for "THR_CLUS_1_T" (T-0155), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2743 (DWF_THR_ENCL)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2508	BSC_THR_CL2T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(8) Scale Factor: ns		
Consecutive number of times temperature for "THR_CLUS_2_T" (T-0156), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2743 (DWF_THR_ENCL)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2509	BSC_THR_CL3T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(9) Scale Factor: ns		
Consecutive number of times temperature for "THR_CLUS_3_T" (T-0157), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2743 (DWF_THR_ENCL)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2510	BSC_THR_CL4T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(10) Scale Factor: ns		
Consecutive number of times temperature for "THR_CLUS_4_T" (T-0158), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2743 (DWF_THR_ENCL)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2511	BSC_NTOtnkT1		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(11) Scale Factor: ns		
Consecutive number of times temperature for "NTO_TANK_T1" (T-0178), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2744 (DWF_PROP_TNK)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2512	BSC_NTOtnkT2		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(12) Scale Factor: ns		
Consecutive number of times temperature for "NTO_TANK_T2" (T-0179), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2744 (DWF_PROP_TNK)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2513	BSC_HYtnk1T1		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(13) Scale Factor: ns		
Consecutive number of times temperature for "N2H4_TNK1_T1" (T-0180), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2744 (DWF_PROP_TNK)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2514	BSC_HYtnk1T2		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(14) Scale Factor: ns		
Consecutive number of times temperature for "N2H4_TNK1_T2" (T-0181), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2744 (DWF_PROP_TNK)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2515	BSC_HYtnk2T1		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(15) Scale Factor: ns		
Consecutive number of times temperature for "N2H4_TNK2_T1" (T-0182), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2744 (DWF_PROP_TNK)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2516	BSC_HYtnk2T2		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(16) Scale Factor: ns		
Consecutive number of times temperature for "N2H4_TNK2_T2" (T-0183), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2744 (DWF_PROP_TNK)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2517	BSC_PRCNT1_T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(17) Scale Factor: ns		
Consecutive number of times temperature for "PRES_CNTL1_T" (T-0164), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2754 (DWF_PRS_CL1)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2518	BSC_PRCNT2_T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(18) Scale Factor: ns		
Consecutive number of times temperature for "PRES_CNTL2_T" (T-0165), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2741 (DWF_PRS_CL2)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2519	BSC_SUPVC3_T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(19) Scale Factor: ns		
Consecutive number of times temperature for "SUP_V_CLS3_T" (T-0170), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2745 (DWF_SUPVlvCL)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2520	BSC_SUPVC4_T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(20) Scale Factor: ns		
Consecutive number of times temperature for "SUP_V_CLS4_T" (T-0171), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2745 (DWF_SUPVlvCL)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2521	BSC_SUPVC1_T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(21) Scale Factor: ns		
Consecutive number of times temperature for "SUP_V_CLS1_T" (T-0168), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2745 (DWF_SUPVlvCL)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2522	BSC_SUPVC2_T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(22) Scale Factor: ns		
Consecutive number of times temperature for "SUP_V_CLS2_T" (T-0169), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2745 (DWF_SUPVlvCL)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2523	BSC_TWTenclT		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(23) Scale Factor: ns		
Consecutive number of times temperature for "TWTA_ENCL_T" (T-0314), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2747 (DWF_TWT_HGgm)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2524	BSC_HGAgim1T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(24) Scale Factor: ns		
Consecutive number of times temperature for "HGA_GIMBL1_T" (T-0243), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2747 (DWF_TWT_HGgm)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2525	BSC_HGAgim2T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(25) Scale Factor: ns		
Consecutive number of times temperature for "HGA_GIMBL2_T" (T-0244), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2747 (DWF_TWT_HGgm)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2526	BSC_SA-Ygm1T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(26) Scale Factor: ns		
Consecutive number of times temperature for "SA-Y_GMBL1_T" (T-0254), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2749 (DWF_SA-Y_GIM)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2527	BSC_SA-Ygm2T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(27) Scale Factor: ns		
Consecutive number of times temperature for "SA-Y_GMBL2_T" (T-0255), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2749 (DWF_SA-Y_GIM)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2528	BSC_SA+Ygm1T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(28) Scale Factor: ns		
Consecutive number of times temperature for "SA+Y_GMBL1_T" (T-0252), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2752 (DWF_SA+Y_GIM)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2529	BSC_SA+Ygm2T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(29) Scale Factor: ns		
Consecutive number of times temperature for "SA+Y_GMBL2_T" (T-0253), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2752 (DWF_SA+Y_GIM)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2530	BSC_ME_VLVT1		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNTRS(30) Scale Factor: ns		
Consecutive number of times temperature for "ME_VALVE_T1" (T-0159), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2743 (DWF_THR_ENCL)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2531	BSC_MHSA_H_T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(31) Scale Factor: ns		
Consecutive number of times temperature for "MHSA_HSE_T" (T-0105), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2750 (DWF_MHSA)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2532	BSC_CSA_T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(32) Scale Factor: ns		
Consecutive number of times temperature for "CSA_T" (T-0100), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry: F-2751 (DWF_CSA)			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2533	BSC_XSU_T		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(33) Scale Factor: ns		
Consecutive number of times temperature for "XSU_INTRN_T" (T-0130), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-2534	BSC_IMU_BLKT		THRM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: BADSUBCOMCNIRS(34) Scale Factor: ns		
Consecutive number of times temperature for "IMU_BLOCK_T" (T-0101), received from EDF-to-SCP 32-second analog data, was outside threshold. Each count is 32 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No cumulative record of temperature anomalies.			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2560	DTC_ENABLES		THRM
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: THERMALPRESET FSW Name: THERMALPARAMETERS Scale Factor: ns		
DTC Enables Status from the THERMALPARAMETERS word. This channel contains 16 DTC enable status bits. Logic 0 = Disabled, temperature is not monitored Logic 1 = Enabled, temperature is monitored and actions can be taken			
Bit 0 - Equipment Module -X DTC Bit 1 - Press Valve Cluster 2 THR Bit 2 - Battery DTC Bit 3 - Thruster Enclosures DTC Bit 4 - Prop Tank DTC Bit 5 - Supply Valve Cluster DTC Bit 6 - Main Engine Valve DTC Bit 7 - TWTA Encl, HGA Gim DTC			
Bit 8 - IMU TCA Bit 9 - SA -Y Gimble DTC Bit 10 - MHSA DTC Bit 11 - CSA DTC Bit 12 - SA +Y Gimble DTC Bit 13 - Equipment Module +Y DTC Bit 14 - Press Valve Cluster 1 THR Bit 15 - Equipment Module +X DTC			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Knowledge of monitor function is lost.			
Alternate Telemetry: Use Send_1_Word command			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-2565	DTC_PRI_STAT		THRM
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: PRIDTCSOFF Scale Factor: ns		
Primary DTC Status Word. This channel contains 16 DTC status bits. Individual bit channels: F/N-2720 through F/N-2735. Logic 0 = Nominal, no autonomous action Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.			
Bit 0 - Equipment Module -X DTC Bit 1 - Press Valve Cluster 2 THR Bit 2 - Battery DTC Bit 3 - Thruster Enclosures DTC Bit 4 - Prop Tank DTC Bit 5 - Supply Valve Cluster DTC Bit 6 - Main Engine Valve DTC Bit 7 - TWTA Encl, HGA Gim DTC			
Bit 8 - IMU TCA Bit 9 - SA -Y Gimble DTC Bit 10 - MHSA DTC Bit 11 - CSA DTC Bit 12 - SA +Y Gimble DTC Bit 13 - Equipment Module +Y DTC Bit 14 - Press Valve Cluster 1 THR Bit 15 - Equipment Module +X DTC			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2570	DTC_WARN_FLG		THRM
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: THERMDTCSTATUS Scale Factor: ns		
DTC warning flag word. This channel contains 16 thermal warning flags. Individual bit channels: F/N-2740 through F/N-2755. Logic 0 = Nominal Logic 1 = DTC controlled sensor is showing temperature outside of limits for this 32 second sample.			
Bit 0 - Equipment Module -X DTC Bit 1 - Press Valve Cluster 2 THR Bit 2 - Battery DTC Bit 3 - Thruster Enclosures DTC Bit 4 - Prop Tank DTC Bit 5 - Supply Valve Cluster DTC Bit 6 - Main Engine Valve DTC Bit 7 - TWTA Encl, HGA Gim DTC Bit 8 - IMU TCA Bit 9 - SA -Y Gimble DTC Bit 10 - MHSA DTC Bit 11 - CSA DTC Bit 12 - SA +Y Gimble DTC Bit 13 - Equipment Module +Y DTC Bit 14 - Press Valve Cluster 1 THR Bit 15 - Equipment Module +X DTC			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.			
Alternate Telemetry: Check EDF analog temp.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		
F-2575	XSU_MSG_ENAB		THRM
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: THERMALCPL FSW Name: XSUMSGENABLE Scale Factor: ns		
Status word indicating enable/disable status of RedMan XSU temperature monitoring. If enabled, message is sent to RedMan immediately if outside threshold.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-2720	DPS_EM-X		THRM			
Data Type: STATUS # Bits: 1 Start Bit: F-2565/00	Compool: THERMALCPL FSW Name: PRIDTCSOFF(0) Scale Factor: ns					
Bit 0 of Primary DTC status word (DTC_PRI_STAT F/N-2565). Equipment Module -X Panel heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.						
Alternate Telemetry: None Related Measurements: <table border="1" data-bbox="134 834 654 1066"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A CCL Process: OFF CCL Param: 0</td><td>State Names: 0 = RESET 1 = CMD_BKUP_TCA</td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_BKUP_TCA
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_BKUP_TCA				
F-2721	DPS_PRS_CL2		THRM			
Data Type: STATUS # Bits: 1 Start Bit: F-2565/01	Compool: THERMALCPL FSW Name: PRIDTCSOFF(I) Scale Factor: ns					
Bit 1 of Primary DTC status word (DTC_PRI_STAT F/N-2565). Pressurant Cluster 2 heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.						
Alternate Telemetry: None Related Measurements: <table border="1" data-bbox="134 1721 654 1953"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A CCL Process: OFF CCL Param: 0</td><td>State Names: 0 = RESET 1 = CMD_BKUP_TCA</td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_BKUP_TCA
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_BKUP_TCA				

SCP TELEMETRY

F-2722	DPS_BATTERY		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2565/02	Compool: THERMALCPL FSW Name: PRIDTCSOFF(2) Scale Factor: ns		
Bit 2 of Primary DTC status word (DTC_PRI_STAT F/N-2565). Battery heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = CMD_BKUP_TCA	
F-2723	DPS_THR_ENCL		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2565/03	Compool: THERMALCPL FSW Name: PRIDTCSOFF(3) Scale Factor: ns		
Bit 3 of Primary DTC status word (DTC_PRI_STAT F/N-2565). Thruster Enclosure heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = BKUP_HTR_OFF	

SCP TELEMETRY

F-2724		DPS_PROP_TNK	THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2565/04	Compool: THERMALCPL FSW Name: PRIDTCSOFF(4) Scale Factor: ns		
Bit 4 of Primary DTC status word (DTC_PRI_STAT F/N-2565). Propulsion Tank heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = PRI_HTR_OFF	
F-2725		DPS_SUPvlvCL	THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2565/05	Compool: THERMALCPL FSW Name: PRIDTCSOFF(5) Scale Factor: ns		
Bit 5 of Primary DTC status word (DTC_PRI_STAT F/N-2565). Supply Valve Cluster heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = BKUP_HTR_OFF	

SCP TELEMETRY

F-2726	DPS_MAIN_ENG	THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2565/06	Compool: THERMALCPL FSW Name: PRIDTCSOFF(6) Scale Factor: ns	
Bit 6 of Primary DTC status word (DTC_PRI_STAT F/N-2565). Main Engine Valve heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = BKUP_HTR_OFF
F-2727	DPS_TWT_HGgm	THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2565/07	Compool: THERMALCPL FSW Name: PRIDTCSOFF(7) Scale Factor: ns	
Bit 7 of Primary DTC status word (DTC_PRI_STAT F/N-2565). TWTA Enclosure/HGA Gimble heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.		
Alternate Telemetry: None Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = BKUP_HTR_OFF

SCP TELEMETRY

F-2728	DPS_IMU_TCA		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2565/08	Compool: THERMALCPL FSW Name: PRIDTCSOFF(8) Scale Factor: ns		
Bit 8 of Primary DTC status word (DTC_PRI_STAT F/N-2565). IMU TCA heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = PRI_HTR_OFF	
F-2729	DPS_SA-Y_GIM		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2565/09	Compool: THERMALCPL FSW Name: PRIDTCSOFF(9) Scale Factor: ns		
Bit 9 of Primary DTC status word (DTC_PRI_STAT F/N-2565). Solar Array -Y Gimble heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	

SCP TELEMETRY

F-2730	DPS_MHSA		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2565/10	Compool: THERMALCPL FSW Name: PRIDTCSOFF(10) Scale Factor: ns		
Bit 10 of Primary DTC status word (DTC_PRI_STAT F/N-2565). MHSA heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	
F-2731	DPS_CSA		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2565/11	Compool: THERMALCPL FSW Name: PRIDTCSOFF(11) Scale Factor: ns		
Bit 11 of Primary DTC status word (DTC_PRI_STAT F/N-2565). CSA heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	

SCP TELEMETRY

F-2732	DPS_SA+Y_GIM		THRM			
Data Type: STATUS # Bits: 1 Start Bit: F-2565/12	Compool: THERMALCPL FSW Name: PRIDTCSOFF(12) Scale Factor: ns					
Bit 12 of Primary DTC status word (DTC_PRI_STAT F/N-2565). Solar Array +Y Gimble heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = RESET 1 = SET </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET				
F-2733	DPS_EM+Y		THRM			
Data Type: STATUS # Bits: 1 Start Bit: F-2565/13	Compool: THERMALCPL FSW Name: PRIDTCSOFF(13) Scale Factor: ns					
Bit 13 of Primary DTC status word (DTC_PRI_STAT F/N-2565). Equipment Module +Y Panel heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = RESET 1 = SET </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET				

SCP TELEMETRY

F-2734	DPS_PRS_CL1		THRM			
Data Type: STATUS # Bits: 1 Start Bit: F-2565/14	Compool: THERMALCPL FSW Name: PRIDTCSOFF(14) Scale Factor: ns					
Bit 14 of Primary DTC status word (DTC_PRI_STAT F/N-2565). Pressurant Cluster 1 heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = RESET 1 = SET </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET				
F-2735	DPS_EM+X		THRM			
Data Type: STATUS # Bits: 1 Start Bit: F-2565/15	Compool: THERMALCPL FSW Name: PRIDTCSOFF(15) Scale Factor: ns					
Bit 15 of Primary DTC status word (DTC_PRI_STAT F/N-2565). Equipment Module +X Panel heater circuit status. Logic 0 = Nominal, no autonomous action is indicated Logic 1 = Thermal S/W has told RedMan to swap heater circuit and cease monitoring.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Cannot verify DTC status. Status must be tracked by other means.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = RESET 1 = SET </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET				

SCP TELEMETRY

F-2740	DWF_EM-X		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/00	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(0) Scale Factor: ns		
Bit 0 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). Equipment Module -X Panel Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.			
Alternate Telemetry: Check EDF analog Temperatures.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	
F-2741	DWF_PRS_CL2		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/01	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(1) Scale Factor: ns		
Bit 1 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). Pressurant Valve Cluster 2 Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.			
Alternate Telemetry: Check EDF analog Temperatures.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	

SCP TELEMETRY

F-2742	DWF_BATTERY		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/02	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(2) Scale Factor: ns		
Bit 2 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). Battery Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.			
Alternate Telemetry: Check EDF analog Temperatures.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	
F-2743	DWF_THR_ENCL		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/03	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(3) Scale Factor: ns		
Bit 3 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). Thruster Enclosure Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.			
Alternate Telemetry: Check EDF analog Temperatures.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	

F-2744	DWF_PROP_TNK	THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/04	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(4) Scale Factor: ns	
Bit 4 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). Propulsion Tank Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.		
Alternate Telemetry: Check EDF analog Temperatures.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
F-2745	DWF_SUPvlvCL	THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/05	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(5) Scale Factor: ns	
Bit 5 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). Supply Valve Cluster Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.		
Alternate Telemetry: Check EDF analog Temperatures.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET

SCP TELEMETRY

F-2746	DWF_MAIN_ENG	THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/06	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(6) Scale Factor: ns	
Bit 6 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). Main Engine Valve Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.		
Alternate Telemetry: Check EDF analog Temperatures.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
F-2747	DWF_TWT_HGgm	THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/07	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(7) Scale Factor: ns	
Bit 7 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). TWTA Enclosure/HGA Gimble Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.		
Alternate Telemetry: Check EDF analog Temperatures.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET

SCP TELEMETRY

F-2748	DWF_IMU_TCA		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/08	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(8) Scale Factor: ns		
Bit 8 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). IMU TCA Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.			
Alternate Telemetry: Check EDF analog Temperatures.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	
F-2749	DWF_SA-Y_GIM		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/09	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(9) Scale Factor: ns		
Bit 9 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). Solar Array -Y Gimble Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.			
Alternate Telemetry: Check EDF analog Temperatures.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	

SCP TELEMETRY

F-2750	DWF_MHSA	THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/10	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(10) Scale Factor: ns	
Bit 10 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). MHSA Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.		
Alternate Telemetry: Check EDF analog Temperatures.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET
F-2751	DWF_CSA	THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/11	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(11) Scale Factor: ns	
Bit 11 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). CSA Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits		
Loss of Function: N/A		
Recommended Action:		
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.		
Alternate Telemetry: Check EDF analog Temperatures.		
Related Measurements:		
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET

SCP TELEMETRY

F-2752	DWF_SA+Y_GIM		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/12	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(12) Scale Factor: ns		
Bit 12 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). Solar Array +Y Gimble Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.			
Alternate Telemetry: Check EDF analog Temperatures.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	
F-2753	DWF_EM+Y		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/13	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(13) Scale Factor: ns		
Bit 13 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). Equipment Module +Y Panel Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.			
Alternate Telemetry: Check EDF analog Temperatures.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	

SCP TELEMETRY

F-2754	DWF_PRS_CL1		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/14	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(14) Scale Factor: ns		
Bit 14 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). Pressurant Valve Cluster 1 Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.			
Alternate Telemetry: Check EDF analog Temperatures. Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	
F-2755	DWF_EM+X		THRM
Data Type: STATUS # Bits: 1 Start Bit: F-2570/15	Compool: THERMALCPL FSW Name: THERMDTCSTATUS(15) Scale Factor: ns		
Bit 15 of Thermal Warning Flags word (DTC_WARN_FLG F/N-2570). Equipment Module +X Panel Temperature out of limit status. Logic 0 = Nominal Logic 1 = Sensor temperature outside of limits			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Thermal out-of-limit info lost; use alternate TLM. Use EDF analog temperatures.			
Alternate Telemetry: Check EDF analog Temperatures. Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RESET 1 = SET	

SCP TELEMETRY

F-3000	BEAM_DELAY		TLCM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELECOMPRESET FSW Name: CONTINGENCYBEAMONDELAY Scale Factor: ns		
Number of seconds following entry to contingency mode due to low battery state of charge during which stored RPA beam on commands will be ignored.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-3010	CMD_LOSS_TMR		TLCM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELECOMINIT FSW Name: COMMANDLOSSTIMER Scale Factor: ns		
Command loss timer indicates time in minutes until declaration of Telecom Emergency.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No knowledge of time remaining. Timer loss will impact automomous Telecom reconfig.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: hrs CCL Process: OFF CCL Param: 0	Coefficients: n0 = 0.00000E+00 n1 = 1.66666E-02	

SCP TELEMETRY

F-3020	LGA_CYCLE		TLCM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELECOMPRESET FSW Name: LGACYCLEPERIOD Scale Factor: ns		
Number of seconds between RF Input Switch toggling commands, when telecom mode is receive LGA cycling.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-3021	LGA_TIMER		TLCM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELECOMCPL FSW Name: LGACYCLETIMER Scale Factor: ns		
Time until receive LGA antenna will be switched (Receive LGA Cycling mode following Emergency or Contingency mode only).			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of LGA status. Timer loss will impair Telecom switching.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-3030	PDS_MAXnotOK		TLCM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELECOMPRESET FSW Name: MAXCONSECPDSNOTOK Scale Factor: ns		
When PDS telemetry monitoring is enabled, the maximum number of 8-second telemetry samples with both PDS-A and PDS-B MEOK status not OK.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-3031	PDS_notOK_CT		TLCM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELECOMCPL FSW Name: TOTALPDSNOTOKCOUNT Scale Factor: ns		
Provides a total count of times PDS both not OK when PDS telemetry monitoring is enabled.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of PDS OK status diagnostic info. PDS status will have to be verified by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-3040	TLCM_DSW1		TLCM																					
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns																							
Telecom discretes word 1. Individual bit channels: F/N-3200 through F/N-3215.																								
<table> <tbody> <tr><td>Bit 0 - Selected Uplink Antenna</td><td>Bit 8 - TLCM Subcom Received Status</td></tr> <tr><td>Bit 1 - Selected MOT</td><td>Bit 9 - MOT Output Checked</td></tr> <tr><td>Bit 2 - Selected RPA</td><td>Bit 10 - MOT Output Ok Status</td></tr> <tr><td>Bit 3 - Selected XSU</td><td>Bit 11 - RPA Helix I Checked</td></tr> <tr><td>Bit 4 - MOT Exciter Status</td><td>Bit 12 - USO Enabled</td></tr> <tr><td>Bit 5 - RPA Beam Status</td><td>Bit 13 - PDS Not Ok Checked</td></tr> <tr><td>Bit 6 - TLCM CMD Seq In Progress</td><td>Bit 14 - spare</td></tr> <tr><td>Bit 7 - Beam Up After Low Rates</td><td>Bit 15 - spare</td></tr> </tbody> </table>				Bit 0 - Selected Uplink Antenna	Bit 8 - TLCM Subcom Received Status	Bit 1 - Selected MOT	Bit 9 - MOT Output Checked	Bit 2 - Selected RPA	Bit 10 - MOT Output Ok Status	Bit 3 - Selected XSU	Bit 11 - RPA Helix I Checked	Bit 4 - MOT Exciter Status	Bit 12 - USO Enabled	Bit 5 - RPA Beam Status	Bit 13 - PDS Not Ok Checked	Bit 6 - TLCM CMD Seq In Progress	Bit 14 - spare	Bit 7 - Beam Up After Low Rates	Bit 15 - spare					
Bit 0 - Selected Uplink Antenna	Bit 8 - TLCM Subcom Received Status																							
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Loss of Function: N/A																								
Recommended Action:																								
Impact of Loss of Tlm: Less knowledge of the state of the Telecom subsystem.																								
Alternate Telemetry: None Related Measurements: <table> <tbody> <tr><td>Time Type: ERT</td><td>Conversion Type: N/A</td><td></td></tr> <tr><td>Test Type: DN</td><td></td><td></td></tr> <tr><td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr><td>Red Alarm Mask1:</td><td>Valid Bit Mask: 0xFFFF</td><td></td></tr> <tr><td>Red Alarm Mask2:</td><td>Event Status Mask: 0xFFFF</td><td></td></tr> <tr><td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr><td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </tbody> </table>				Time Type: ERT	Conversion Type: N/A		Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask1:	Valid Bit Mask: 0xFFFF		Red Alarm Mask2:	Event Status Mask: 0xFFFF		In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A																							
Test Type: DN																								
Red Alarm Type: OFF																								
Red Alarm Mask1:	Valid Bit Mask: 0xFFFF																							
Red Alarm Mask2:	Event Status Mask: 0xFFFF																							
In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							
F-3042	TLCM_DSW2		TLCM																					
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: TELECOMCPL FSW Name: MORETELECOMDISCRETES Scale Factor: ns																							
Telecom discretes word 2. Individual bit channels: F/N-3220 through F/N-3235.																								
<table> <tbody> <tr><td>Bit 0 - TWTA Power Status</td><td>Bit 8 - TWTA 2 SW HV Status</td></tr> <tr><td>Bit 1 - TWTA Power Mngmt Status</td><td>Bit 9 - Turn Off Filament</td></tr> <tr><td>Bit 2 - TWTA Power Mngmt Enable</td><td>Bit 10 - Beam Coming On</td></tr> <tr><td>Bit 3.4 - Selected Downlink Antenna</td><td>Bit 11 - Turning On Filament</td></tr> <tr><td>Bit 3.4 - Selected Downlink Antenna</td><td>Bit 12 - spare</td></tr> <tr><td>Bit 5 - RPA 1 Helix I Status</td><td>Bit 13 - spare</td></tr> <tr><td>Bit 6 - RPA 2 Helix I Status</td><td>Bit 14 - spare</td></tr> <tr><td>Bit 7 - TWTA 1 SW HV Status</td><td>Bit 15 - spare</td></tr> </tbody> </table>				Bit 0 - TWTA Power Status	Bit 8 - TWTA 2 SW HV Status	Bit 1 - TWTA Power Mngmt Status	Bit 9 - Turn Off Filament	Bit 2 - TWTA Power Mngmt Enable	Bit 10 - Beam Coming On	Bit 3.4 - Selected Downlink Antenna	Bit 11 - Turning On Filament	Bit 3.4 - Selected Downlink Antenna	Bit 12 - spare	Bit 5 - RPA 1 Helix I Status	Bit 13 - spare	Bit 6 - RPA 2 Helix I Status	Bit 14 - spare	Bit 7 - TWTA 1 SW HV Status	Bit 15 - spare					
Bit 0 - TWTA Power Status	Bit 8 - TWTA 2 SW HV Status																							
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Loss of Function:																								
Recommended Action:																								
Impact of Loss of Tlm:																								
Alternate Telemetry: Related Measurements: <table> <tbody> <tr><td>Time Type: ERT</td><td>Conversion Type: N/A</td><td></td></tr> <tr><td>Test Type: DN</td><td></td><td></td></tr> <tr><td>Red Alarm Type: OFF</td><td></td><td></td></tr> <tr><td>Red Alarm Mask1:</td><td>Valid Bit Mask: 0xFFFF</td><td></td></tr> <tr><td>Red Alarm Mask2:</td><td>Event Status Mask: 0xFFFF</td><td></td></tr> <tr><td>In Hysteresis: 0</td><td>CCL Process: OFF</td><td></td></tr> <tr><td>Out Hysteresis: 0</td><td>CCL Param: 0</td><td></td></tr> </tbody> </table>				Time Type: ERT	Conversion Type: N/A		Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask1:	Valid Bit Mask: 0xFFFF		Red Alarm Mask2:	Event Status Mask: 0xFFFF		In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A																							
Test Type: DN																								
Red Alarm Type: OFF																								
Red Alarm Mask1:	Valid Bit Mask: 0xFFFF																							
Red Alarm Mask2:	Event Status Mask: 0xFFFF																							
In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							

SCP TELEMETRY

F-3044	TLCM_MODE		TLCM																					
Data Type: STATUS # Bits: 3 Start Bit: 13	Compool: TELECOMCPL FSW Name: TELECOMMODE Scale Factor: ns																							
Telecom task software mode status.																								
0 = Normal 1 = Emergency 2 = Contingency 3 = Receive LGA Cycling 4 = Launch RPA Telem																								
Of limited usefulness, since telemetry mode will usually be emergency when telecom mode is not normal.																								
Loss of Function: N/A																								
Recommended Action:																								
Impact of Loss of Tlm: Status of telecon mode uncertain. Proper mode needed to ensure proper S/W commanding.																								
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td> <td style="width: 33%;">Conversion Type: N/A</td> <td style="width: 33%;">State Names: 0 = NORMAL 1 = EMERGNCY 2 = CNTINJCY 3 = LGACYCL 4 = LAUNCH_RPA</td> </tr> <tr> <td>Test Type: DN</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Mask:</td> <td></td> <td></td> </tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td></td> </tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td></td> </tr> </table>				Time Type: ERT	Conversion Type: N/A	State Names: 0 = NORMAL 1 = EMERGNCY 2 = CNTINJCY 3 = LGACYCL 4 = LAUNCH_RPA	Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask:			In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0				
Time Type: ERT	Conversion Type: N/A	State Names: 0 = NORMAL 1 = EMERGNCY 2 = CNTINJCY 3 = LGACYCL 4 = LAUNCH_RPA																						
Test Type: DN																								
Red Alarm Type: OFF																								
Red Alarm Mask:																								
In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							
F-3046	TLCM_PARM		TLCM																					
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: TELECOMINIT FSW Name: TELECOMDISCRETEPARAMETERS Scale Factor: ns																							
Telecom parameters. Individual bit channels: F/N-3240 through F/N-3254.																								
Bit 0 - MOT Rcv I Monitor Enable Bits 8..9 - MOT Status Bit 1 - MOT Exc I Monitor Enable Bits 10..11 - RPA Status Bit 2 - RPA Beam Output Monitor Enable Bits 12..13 - RF Input Switch Status Bit 3 - PDS OK Monitor Enable Bits 14..15 - RF Output Switch Status Bit 4 - RF Input Switch Tlm Status Bit 5 - RF Output Switch Tlm Status Bit 6 - spare Bit 7 - spare																								
Loss of Function: N/A																								
Recommended Action:																								
Impact of Loss of Tlm: N/A																								
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Time Type: ERT</td> <td style="width: 33%;">Conversion Type: N/A</td> <td style="width: 33%;"></td> </tr> <tr> <td>Test Type: DN</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Type: OFF</td> <td></td> <td></td> </tr> <tr> <td>Red Alarm Mask1:</td> <td>Valid Bit Mask: 0xFFFF</td> <td></td> </tr> <tr> <td>Red Alarm Mask2:</td> <td>Event Status Mask: 0xFFFF</td> <td></td> </tr> <tr> <td>In Hysteresis: 0</td> <td>CCL Process: OFF</td> <td></td> </tr> <tr> <td>Out Hysteresis: 0</td> <td>CCL Param: 0</td> <td></td> </tr> </table>				Time Type: ERT	Conversion Type: N/A		Test Type: DN			Red Alarm Type: OFF			Red Alarm Mask1:	Valid Bit Mask: 0xFFFF		Red Alarm Mask2:	Event Status Mask: 0xFFFF		In Hysteresis: 0	CCL Process: OFF		Out Hysteresis: 0	CCL Param: 0	
Time Type: ERT	Conversion Type: N/A																							
Test Type: DN																								
Red Alarm Type: OFF																								
Red Alarm Mask1:	Valid Bit Mask: 0xFFFF																							
Red Alarm Mask2:	Event Status Mask: 0xFFFF																							
In Hysteresis: 0	CCL Process: OFF																							
Out Hysteresis: 0	CCL Param: 0																							

SCP TELEMETRY

F-3050	TLCM_SEQ_TD		TLCM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELECOMCPL FSW Name: TELECOMCMDSEQTIMEDELAY Scale Factor: ns		
Number of seconds remaining until activating next action of a telecom command sequence which is in progress.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-3051	TLCM_SUBCOM1		TLCM
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: TELECOMCPL FSW Name: TELECOMSUBCOMMESSAGE Scale Factor: ns		
First word of telecom subcom telemetry received from the EDF every 8 seconds.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-3052	TLCM_SUBCOM2		TLCM			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: TELECOMCPL FSW Name: TELECOMSUBCOMMESSAGE Scale Factor: ns					
Second word of telecom subcom telemetry received from the EDF every 8 seconds.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-3053	TLCM_SUBCOM3		TLCM			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: TELECOMCPL FSW Name: TELECOMSUBCOMMESSAGE Scale Factor: ns					
Third word of telecom subcom telemetry received from the EDF every 8 seconds.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-3054		TLCM_SUBCOM4	TLCM			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: TELECOMCPL FSW Name: TELECOMSUBCOMMESSAGE Scale Factor: ns					
Forth word of telecom subcom telemetry received from the EDF every 8 seconds.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					
F-3055		TLCM_SUBCOM5	TLCM			
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: TELECOMCPL FSW Name: TELECOMSUBCOMMESSAGE Scale Factor: ns					
Fifth word of telecom subcom telemetry received from the EDF every 8 seconds.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: N/A						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-3060	UPLK_TIMEOUT		TLCM
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELECOMINIT FSW Name: UPLINKTIMEOUT Scale Factor: ns		
Value the Command Loss Timer is set to whenever a valid SCP uplink command is received. Set to initial Uplink timeout when a SET_TELECOM_MODE_NORMAL command is executed, or subsequent Uplink timeout when emergency or contingency mode is entered.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: EU Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: POLY EU Units: hrs CCL Process: OFF CCL Param: 0		Coefficients: n0 = 0.00000E+00 n1 = 1.66666E-02
F-3100	XSU_CMD_WORD		TLCM
Data Type: DIGITAL # Bits: 16 Start Bit: 0	Compool: TELECOMCPL FSW Name: XSUCMDWORD Scale Factor: ns		
Last XSU command successfully sent to the XSU.			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask1: Red Alarm Mask2: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A Valid Bit Mask: 0xFFFF Event Status Mask: 0xFFFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-3101	XSU_Q_COUNT		TLCM			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELECOMCPL FSW Name: XSUQUECOUNT Scale Factor: ns					
Contains the number of XSU commands waiting for transmission to the XSU.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of command processing diagnostic info. Loss of status information.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-3102	XSU_Q_FULL		TLCM			
Data Type: UNSIGNED # Bits: 16 Start Bit: 0	Compool: TELECOMCPL FSW Name: XSUQUEFULLCOUNT Scale Factor: ns					
Counts the number of commands lost because the XSU queue was full.						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of command processing diagnostic info. Further command processing checks needed.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-3200	TD1_UPL_ANT		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3040/00	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns		
Bit 0 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). Selected uplinklink antenna. Logical 0 = LGR1 Logical 1 = HGA_LGR2			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No software confirmation on which antenna selected. Antenna selection capability needed to ensure comm.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = LGR1 1 = HGA_LGR2	
F-3201	TD1_SEL_MOT		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3040/01	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns		
Bit 1 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). MOT selected for downlink. Logical 0 = MOT1 Logical 1 = MOT2			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot determine which MOT side will be used for downlink. Proper MOT side is needed for comm.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = MOT1 1 = MOT2	

SCP TELEMETRY

F-3202	TD1_SEL_RPA		TLCM			
Data Type: STATUS # Bits: 1 Start Bit: F-3040/02	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns					
Bit 2 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). RPA selected for downlink. Logical 0 = RPA1 Logical 1 = RPA2						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Loss of info on which TWTA is selected.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = RPA1 1 = RPA2 </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RPA1 1 = RPA2
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = RPA1 1 = RPA2				
F-3203	TD1_SEL_XSU		TLCM			
Data Type: STATUS # Bits: 1 Start Bit: F-3040/03	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns					
Bit 3 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). Indicates which XSU side is currently in use. Logical 0 = XSU1 Logical 1 = XSU2						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Operational side of EDF not obvious. Loss of status information.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = XSU1 1 = XSU2 </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = XSU1 1 = XSU2
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = XSU1 1 = XSU2				

SCP TELEMETRY

F-3204	TD1_MOT_EXC		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3040/04	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns		
Bit 4 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). MOT exciter has been commanded on by MOT_Exciter_On or RPA_Beam_On command. Logical 0 = CMD_Off Logical 1 = CMD_On			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify via software that exciter was commanded on Exciter loss results in communication loss.			
Alternate Telemetry: MOT 1 & 2 Exciter On in discrete hardware telemetry.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = CMD_OFF 1 = CMD_ON	
F-3205	TD1_RPA_BEAM		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3040/05	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns		
Bit 5 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). RPA beam has been commanded on by RPA_Beam_On command. Logical 0 = CMD_Off Logical 1 = CMD_On			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of software status of TWTA beam on command.			
Alternate Telemetry: TWTA 1 and 2 Beam On in discrete hardware telemetry.			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = CMD_OFF 1 = CMD_ON	

SCP TELEMETRY

F-3206	TD1_TLCM_CMD		TLCM			
Data Type: STATUS # Bits: 1 Start Bit: F-3040/06	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns					
Bit 6 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). Indicates TELECOM'TASK is in the midst of a multistep command sequence. Logical 0 = Not Active Logical 1 = In Progress						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = NOT_ACTIVE 1 = IN_PROGRESS </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ACTIVE 1 = IN_PROGRESS
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_ACTIVE 1 = IN_PROGRESS				
F-3207	TD1_BEAM_UP		TLCM			
Data Type: STATUS # Bits: 1 Start Bit: F-3040/07	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns					
Bit 7 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). Beam up after low rates. Logical 0 = Not Checked Logical 1 = Checked						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = NOT_CHECKED 1 = CHECKED </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_CHECKED 1 = CHECKED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_CHECKED 1 = CHECKED				

SCP TELEMETRY

F-3208	TD1_TLCM_SUB		TLCM			
Data Type: STATUS # Bits: 1 Start Bit: F-3040/08	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns					
Bit 8 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). Indicates Telecom Task has received the subcom telemetry task (should always be true).						
Logical 0 = Not Received Logical 1 = Received						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Subcom TLM task in Telecom is uncertain. Without TLM, Telecom may incorrectly issue commands.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = NOT_RECVD 1 = RECEIVED </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_RECVD 1 = RECEIVED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_RECVD 1 = RECEIVED				
F-3209	TD1_MOT_CHKD		TLCM			
Data Type: STATUS # Bits: 1 Start Bit: F-3040/09	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns					
Bit 9 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). MOT output limit checked status.						
Logical 0 = MOT Output Limit Not Checked Logical 1 = MOT Output Limit Checked						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td><td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td><td style="width: 33%; padding: 5px;"> State Names: 0 = OUTPUT_NOTCK 1 = OUTPUT_CHKD </td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OUTPUT_NOTCK 1 = OUTPUT_CHKD
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OUTPUT_NOTCK 1 = OUTPUT_CHKD				

SCP TELEMETRY

F-3210	TD1_MOToutOK		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3040/10	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns		
Bit 10 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). MOT output limit OK status.			
Logical 0 = MOT Out of Limit Logical 1 = MOT Limit Ok			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OUT_OF_LIMIT 1 = LIMIT_OK	
F-3211	TD1_RPA_CHKD		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3040/11	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns		
Bit 11 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). RPA Helix I subcom telemetry limit checked status.			
Logical 0 = RPA Helix I Limit Not Checked Logical 1 = RPA Helix I Limit Checked			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify Helix TLM out of limits. Check status will be unknown.			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = LIM_NOT_CHKD 1 = LIMIT_CHKD	

SCP TELEMETRY

F-3212	TD1_USO_ENAB		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3040/12	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns		
Bit 12 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). USO enabled status.			
Logical 0 = Disabled Logical 1 = Enabled			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-3213	TD1_PDSnotOK		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3040/13	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns		
Bit 13 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). Indicates PDS Not OK status in subcom telemetry has been checked.			
Logical 0 = Not Checked Logical 1 = Ok			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: PDS Not OK status cannot be verified. PDS status will have to be verified by other means.			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_CHECKED 1 = CHECKED	

SCP TELEMETRY

F-3214	TD1_SPARE14		TLCM
Data Type: UNSIGNED # Bits: 1 Start Bit: F-3040/14	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns		
Bit 14 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). Spare			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-3215	TD1_SPARE15		TLCM
Data Type: UNSIGNED # Bits: 1 Start Bit: F-3040/15	Compool: TELECOMCPL FSW Name: TELECOMDISCRETES Scale Factor: ns		
Bit 15 of Telecom Discretes Word 1 (TLCM_DSW1 F/N-3040). Spare			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: N/A			
Alternate Telemetry: None Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-3220	TD2_TWTA_ST		TLCM				
Data Type: STATUS # Bits: 1 Start Bit: F-3042/00	Compool: TELECOMCPL FSW Name: MORETELECOM/DISCRETES Scale Factor: ns						
Bit 0 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). TWTA power status. Logical 0 = Not Powered Logical 1 = Powered							
Loss of Function:							
Recommended Action:							
Impact of Loss of Tlm:							
Alternate Telemetry: Related Measurements: <table border="1" data-bbox="134 834 654 1066"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A CCL Process: OFF CCL Param: 0</td><td>State Names: 0 = NOT_POWERED 1 = POWERED</td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_POWERED 1 = POWERED	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = NOT_POWERED 1 = POWERED					
F-3221	TD2_PWR_MGMT		TLCM				
Data Type: STATUS # Bits: 1 Start Bit: F-3042/01	Compool: TELECOMCPL FSW Name: MORETELECOM/DISCRETES Scale Factor: ns						
Bit 1 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). TWTA power management status. Logical 0 = Off Logical 1 = On							
Loss of Function:							
Recommended Action:							
Impact of Loss of Tlm:							
Alternate Telemetry: Related Measurements: <table border="1" data-bbox="134 1721 654 1953"> <tr> <td>Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0</td><td>Conversion Type: N/A CCL Process: OFF CCL Param: 0</td><td>State Names: 0 = OFF 1 = ON</td><td></td></tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON					

SCP TELEMETRY

F-3222	TD2_TWTApmEN		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3042/02	Compool: TELECOMCPL FSW Name: MORETELECOMDISCRETES Scale Factor: ns		
Bit 2 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). TWTA power management enable status.			
Logical 0 = Disabled Logical 1 = Enabled			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-3223	TD2_DNL_ANT		TLCM
Data Type: STATUS # Bits: 2 Start Bit: F-3042/03	Compool: TELECOMCPL FSW Name: MORETELECOMDISCRETES Scale Factor: ns		
Bits 3 and 4 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). Selected downlink antenna..			
Logical 00 = LGT1 Logical 01 = LGT2 Logical 10 = HGA Logical 11 = Invalid			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = LGT1 1 = LGT2 2 = HGA 3 = INVALID	

SCP TELEMETRY

F-3225	TD2_RPA1_H_I		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3042/05	Compool: TELECOMCPL FSW Name: MORETELECOM/DISCRETES Scale Factor: ns		
Bit 5 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). RPA 1 helix current status.			
Logical 0 = Off Logical 1 = On			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON	
F-3226	TD2_RPA2_H_I		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3042/06	Compool: TELECOMCPL FSW Name: MORETELECOM/DISCRETES Scale Factor: ns		
Bit 6 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). RPA 2 helix current status.			
Logical 0 = Off Logical 1 = On			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON	

SCP TELEMETRY

F-3227	TD2_TWTA1sHV		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3042/07	Compool: TELECOMCPL FSW Name: MORETELECOM/DISCRETES Scale Factor: ns		
Bit 7 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). TWTA 1 high voltage status.			
Logical 0 = Off Logical 1 = On			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON	
F-3228	TD2_TWTA2sHV		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3042/08	Compool: TELECOMCPL FSW Name: MORETELECOM/DISCRETES Scale Factor: ns		
Bit 8 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). TWTA 2 high voltage status.			
Logical 0 = Off Logical 1 = On			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OFF 1 = ON	

SCP TELEMETRY

F-3229	TD2_TRnofFIL		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3042/09	Compool: TELECOMCPL FSW Name: MORETELECOMDISCRETES Scale Factor: ns		
Bit 9 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). Turn off filament status.			
Logical 0 = False Logical 1 = True			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FALSE 1 = TRUE	
F-3230	TD2_BEAMcmON		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3042/10	Compool: TELECOMCPL FSW Name: MORETELECOMDISCRETES Scale Factor: ns		
Bit 10 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). Beam coming on.			
Logical 0 = False Logical 1 = True			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry: Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FALSE 1 = TRUE	

SCP TELEMETRY

F-3231	TD2_TRNonFIL		TLCM			
Data Type: STATUS # Bits: 1 Start Bit: F-3042/11	Compool: TELECOMCPL FSW Name: MORETELECOMDISCRETES Scale Factor: ns					
Bit 11 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). Turning on filament. Logical 0 = False Logical 1 = True						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = FALSE 1 = TRUE </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FALSE 1 = TRUE
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = FALSE 1 = TRUE				
F-3232	TD2_SPARE12		TLCM			
Data Type: UNSIGNED # Bits: 1 Start Bit: F-3042/12	Compool: TELECOMCPL FSW Name: MORETELECOMDISCRETES Scale Factor: ns					
Bit 12 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). Spare.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					

SCP TELEMETRY

F-3233		TD2_SPARE13	TLCM
Data Type: UNSIGNED # Bits: 1 Start Bit: F-3042/13	Compool: TELECOMCPL FSW Name: MORETELECOM/DISCRETES Scale Factor: ns		
Bit 13 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). Spare.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		
F-3234		TD2_SPARE14	TLCM
Data Type: UNSIGNED # Bits: 1 Start Bit: F-3042/14	Compool: TELECOMCPL FSW Name: MORETELECOM/DISCRETES Scale Factor: ns		
Bit 14 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). Spare.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-3235	TD2_SPARE15		TLCM			
Data Type: UNSIGNED # Bits: 1 Start Bit: F-3042/15	Compool: TELECOMCPL FSW Name: MORETELECOM/DISCRETES Scale Factor: ns					
Bit 15 of Telecom Discretes Word 2 (TLCM_DSW2 F/N-3042). Spare.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-3240	TDP_MOTrecvTL		TLCM			
Data Type: STATUS # Bits: 1 Start Bit: F-3046/00	Compool: TELECOMINIT FSW Name: TELECOMDISCRETEPARAMETERS Scale Factor: ns					
Bit 0 of Telecom Parameters (TLCM_PARM F/N-3046). MOT receiver current monitor enable status.						
Logical 0 = Disabled Logical 1 = Enabled						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Cannot verify if receiver current is being monitored. Receiver current problems may cause communication problems.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"> State Names: 0 = DISABLED 1 = ENABLED </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED				

SCP TELEMETRY

F-3241	TDP_MOTexcTL		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3046/01	Compool: TELECOMINIT FSW Name: TELECOMDISCRETEPARAMETERS Scale Factor: ns		
Bit 1 of Telecom Parameters (TLCM_PARM F/N-3046). MOT exciter current monitor enable status. Logical 0 = Disabled Logical 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Cannot verify if exciter current is being monitored. Exciter current problems can cause comm problems.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	
F-3242	TDP_RPA_TLM		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3046/02	Compool: TELECOMINIT FSW Name: TELECOMDISCRETEPARAMETERS Scale Factor: ns		
Bit 2 of Telecom Parameters (TLCM_PARM F/N-3046). RPA beam output monitor enable status. Logical 0 = Disabled Logical 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Loss of info about TWTA beam status.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = DISABLED 1 = ENABLED	

SCP TELEMETRY

F-3243	TDP_PDS_TLM		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3046/03	Compool: TELECOMINIT FSW Name: TELECOMDISCRETEPARAMETERS Scale Factor: ns		
Bit 3 of Telecom Parameters (TLCM_PARM F/N-3046). PDS OK status monitor enable status. Set by ground command.			
Logical 0 = Disabled Logical 1 = Enabled			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: PDS OK status cannot be verified. PDS status will have to be verified by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = DISABLED 1 = ENABLED	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		
F-3244	TDP_RFinSW_T		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3046/04	Compool: TELECOMINIT FSW Name: TELECOMDISCRETEPARAMETERS Scale Factor: ns		
Bit 4 of Telecom Parameters (TLCM_PARM F/N-3046). RF input switch telemetry trust status. Set by ground command.			
Logical 0 = OK, Trust Logical 1 = Undependable, Do Not Trust			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Status of switch unknown. Status will have to be tracked by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask:	Conversion Type: N/A	State Names: 0 = OK_TRUST 1 = UNDEPEND	
In Hysteresis: 0 Out Hysteresis: 0	CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-3245	TDP_RFouSW_T		TLCM
Data Type: STATUS # Bits: 1 Start Bit: F-3046/05	Compool: TELECOMINIT FSW Name: TELECOMDISCRETEPARAMETERS Scale Factor: ns		
Bit 5 of Telecom Parameters (TLCM_PARM F/N-3046). RF output switch telemetry trust status. Set by ground command.			
Logical 0 = OK, Trust Logical 1 = Undependable, Do Not Trust			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Status of switch unknown. Status will have to be tracked by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK_TRUST 1 = UNPEND	
F-3246	TDP_SPARE06		TLCM
Data Type: UNSIGNED # Bits: 1 Start Bit: F-3046/06	Compool: TELECOMINIT FSW Name: TELECOMDISCRETEPARAMETERS Scale Factor: ns		
Bit 6 of Telecom Parameters (TLCM_PARM F/N-3046). Spare.			
Loss of Function:			
Recommended Action:			
Impact of Loss of Tlm:			
Alternate Telemetry:			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0		

SCP TELEMETRY

F-3247	TDP_SPARE07		TLCM			
Data Type: UNSIGNED # Bits: 1 Start Bit: F-3046/07	Compool: TELECOMINIT FSW Name: TELECOMDISCRETEPARAMETERS Scale Factor: ns					
Bit 7 of Telecom Parameters (TLCM_PARM F/N-3046). Spare.						
Loss of Function:						
Recommended Action:						
Impact of Loss of Tlm:						
Alternate Telemetry: Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px;"> Conversion Type: OFF CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"></td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0	
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Lo: Red Alarm Hi: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: OFF CCL Process: OFF CCL Param: 0					
F-3248	TDP_MOTequST		TLCM			
Data Type: STATUS # Bits: 2 Start Bit: F-3046/08	Compool: TELECOMINIT FSW Name: TELECOMDISCRETEPARAMETERS Scale Factor: ns					
Bits 8 and 9 of Telecom Parameters (TLCM_PARM F/N-3046). Indicates MOT side status (which was set by RedMan).						
0 = Both OK 1 = Invalid State 2 = Use MOT 1 3 = Use MOT 2						
Loss of Function: N/A						
Recommended Action:						
Impact of Loss of Tlm: Cannot determine which MOT side to use. Incorrect MOT side may be accessed.						
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="padding: 5px;"> State Names: 0 = BOTH_OK 1 = INVALID 2 = USE_MOT1 3 = USE_MOT2 </td> </tr> </table>				Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BOTH_OK 1 = INVALID 2 = USE_MOT1 3 = USE_MOT2
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BOTH_OK 1 = INVALID 2 = USE_MOT1 3 = USE_MOT2				

SCP TELEMETRY

F-3250	TDP_RPAequST		TLCM
Data Type: STATUS # Bits: 2 Start Bit: F-3046/10	Compool: TELECOMINIT FSW Name: TELECOMDISCRETEPARAMETERS Scale Factor: ns		
Bits 10 and 11 of Telecom Parameters (TLCM_PARM F/N-3046). Indicates RPA status as set by RedMan.			
0 = Both OK 1 = Invalid State 2 = Use RPA 1 3 = Use RPA 2			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: No knowledge of TWTA status seen by REDMAN. Correct TWTA needed for comm.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = BOTH_OK 1 = INVALID 2 = USE_RPA1 3 = USE_RPA2	
F-3252	TDP_RFinSW_S		TLCM
Data Type: STATUS # Bits: 2 Start Bit: F-3046/12	Compool: TELECOMINIT FSW Name: TELECOMDISCRETEPARAMETERS Scale Factor: ns		
Bits 12 and 13 of Telecom Parameters (TLCM_PARM F/N-3046). Status of the RF Input Switch. Set by ground command.			
0 = Both OK 1 = Invalid State 2 = Stuck In Position A 3 = Stuck In Position B			
Loss of Function: N/A			
Recommended Action:			
Impact of Loss of Tlm: Status of switch unknown. Status will have to be tracked by other means.			
Alternate Telemetry: None			
Related Measurements:			
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = INVALID 2 = STUCK_A 3 = STUCK_B	

SCP TELEMETRY

F-3254	TDP_RFouSW_S	TLCM			
Data Type: STATUS # Bits: 2 Start Bit: F-3046/14	Compool: TELECOMINIT FSW Name: TELECOMDISCRETEPARAMETERS Scale Factor: ns				
Bits 14 and 15 of Telecom Parameters (TLCM_PARM F/N-3046). Status of the RF Output Switch. Set by ground command.					
0 = Both OK 1 = Invalid State 2 = Stuck In Position A 3 = Stuck In Position B					
Loss of Function: N/A					
Recommended Action:					
Impact of Loss of Tlm: Status of switch unknown. Status will have to be tracked by other means.					
Alternate Telemetry: None Related Measurements: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0 </td> <td style="width: 33%; padding: 5px;"> Conversion Type: N/A CCL Process: OFF CCL Param: 0 </td> <td style="width: 33%; padding: 5px;"> State Names: 0 = OK 1 = INVALID 2 = STUCK_A 3 = STUCK_B </td> </tr> </table>			Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = INVALID 2 = STUCK_A 3 = STUCK_B
Time Type: ERT Test Type: DN Red Alarm Type: OFF Red Alarm Mask: In Hysteresis: 0 Out Hysteresis: 0	Conversion Type: N/A CCL Process: OFF CCL Param: 0	State Names: 0 = OK 1 = INVALID 2 = STUCK_A 3 = STUCK_B			

Appendix F

SCP Safe Mode, Emergency, Engineering & Mission Mode Subcommutation Maps

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SCP EMERGENCY MODE MAP (FSW BUILD 3002)

	word-0	word-1	word-2	word-3	word-4	word-5	word-6	word-7	word-8	word-9	word-10	word-11	word-12	word-13	word-14	word-15	word-16	word-17	word-18	word-19
F0	F-1030 CV_DATA_WORD CDH	F-0315 QUAT_F_I2B_1 AACS	F-0316 QUAT_F_I2B_2 AACS	F-0317 QUAT_F_I2B_3 AACS	F-0333 RTE_FLTBDY_X AACS	F-0334 RTE_FLTBDY_Y AACS	F-0335 RTE_FLTBDY_Z AACS	F-0290 POS_ERR_X AACS	F-0291 POS_ERR_Y AACS	F-0292 POS_ERR_Z AACS	F-1460 UPL_SCPEXCNT CDH	F-0110 GY_X1_X3_1 AACS	F-0130 GY_Y1_Y2_1 AACS	F-0150 GY_Z2_Z3_1 AACS	F-0440 SSA_RAW_RET AACS	F-0442 SSA_RAW_DET AACS	F-0345 RWA_RAW_X AACS	F-0346 RWA_RAW_Y AACS	F-0347 RWA_RAW_Z AACS	F-0348 RWA_RAW_S AACS
F2	F-1030 CV_DATA_WORD CDH	F-0315 QUAT_F_I2B_1 AACS	F-0316 QUAT_F_I2B_2 AACS	F-0317 QUAT_F_I2B_3 AACS	F-0333 RTE_FLTBDY_X AACS	F-0334 RTE_FLTBDY_Y AACS	F-0335 RTE_FLTBDY_Z AACS	F-0290 POS_ERR_X AACS	F-0291 POS_ERR_Y AACS	F-0292 POS_ERR_Z AACS	F-1460 UPL_SCPEXCNT CDH	F-0120 GY_X3_AX_1 AACS	F-0140 GY_Y2_AY_1 AACS	F-0160 GY_Z3_AZ_1 AACS	F-0440 SSA_RAW_RET AACS	F-0442 SSA_RAW_DET AACS	F-0345 RWA_RAW_X AACS	F-0346 RWA_RAW_Y AACS	F-0347 RWA_RAW_Z AACS	F-0348 RWA_RAW_S AACS
	word-20	word-21	word-22	word-23	word-24	word-25	word-26	word-27	word-28	word-29	word-30	word-31	word-32	word-33	word-34	word-35	word-36			
	F-2002 BAT1_TSOC PWR	F-2052 BAT2_TSOC PWR	F-3021 LGA_TIMER TLCM	F-0277 MOM_UNL_STAT AACS	F-0444 SSA_STATUS AACS	F-0521 THrOnT_01 AACS	F-0522 THrOnT_02 AACS	F-0523 THrOnT_03 AACS	F-0524 THrOnT_04 AACS	F-0525 THrOnT_05 AACS	F-0526 THrOnT_06 AACS	F-0527 THrOnT_07 AACS	F-0528 THrOnT_08 AACS	F-0529 THrOnT_09 AACS	F-0530 THrOnT_10 AACS	F-0531 THrOnT_11 AACS	F-0532 THrOnT_12 AACS			
	F-0190 HGA_AZ_ANG AACS	F-0195 HGA_EL_LANG AACS	F-0360 SAM_AZ_ANG AACS	F-0377 SAM_EL_ANG AACS	F-0390 SAP_AZ_ANG AACS	F-0407 SAP_EL_ANG AACS	F-0000 AACs_STATE AACS	F-1034 DEVDEAD_1 CDH	F-1035 DEVDEAD_2 CDH	F-2565 DTC_PRL_STAT THRm	F-1024 CIU_FLAGS CDH	F-2150 PWR_STAT_WRD PWR	F-0210 IMU_ST_WD1 AACs	F-0283 PACK_ATT AACs	F-1348 RDMN_SW_SUM1 CDH	F-1349 RDMN_SW_SUM2 CDH	F-3040 TLCM_DSW1 TLCM			

SCP SAFE MODE MAP SCP_SAFE_063 (1 of 1)

word-0	word-1	word-2	word-3	word-4	word-5	word-6	word-7	word-8	word-9	word-10	word-11	word-12	word-13	word-14	word-15	word-16	word-17	word-18	word-19
F-1030 CV_DATA_WORD CDH	F-0297 PROP_SUN_X AACS	F-0298 PROP_SUN_Y AACS	F-0299 PROP_SUN_Z AACS	F-0290 POS_ERR_X AACS	F-0291 POS_ERR_Y AACS	F-0292 POS_ERR_Z AACS	F-0327 RTEsmRAWBD_X AACS	F-0328 RTEsmRAWBD_Y AACS	F-0329 RTEsmRAWBD_Z AACS	F-3021 LGA_TIMER TLCM	F-2002 BAT1_TSOC PWR	F-2052 BAT2_TSOC PWR	F-1110 POBimgCIU138 CDH	F-0444 SSA_STATUS AACS	F-0477 SUN_SUBM_SM AACS	F-0379 SAM_EL_POS AACS	F-0362 SAM_AZ_POS AACS	F-0409 SAP_EL_POS AACS	F-0392 SAP_AZ_POS AACS
FO																			
word-20	word-21	word-22	word-23	word-24	word-25	word-26	word-27	word-28	word-29	word-30	word-31	word-32	word-33	word-34	word-35	word-36	FO		
F-0514 THR_SM_01_02 AACS	F-0515 THR_SM_03_04 AACS	F-0516 THR_SM_05_06 AACS	F-0517 THR_SM_07_08 AACS	F-0518 THR_SM_09_11 AACS	F-0519 THR_SM_12_10 AACS	F-3040 TLCM_DSW1 TLCM	F-1024 CIU_FLAGS CDH	F-1094 MINISEQ_STAT CDH	F-2150 PWR_STAT_WRD PWR	F-0440 SSA_RAW_RET AACS	F-0442 SSA_RAW_DET AACS	F-1034 DEVDEAD_1 CDH	F-2565 DTC_PRI_STAT THRM	F-0210 IMU_ST_WD1 AACS	F-1092 MEOK_WORD CDH	F-1348 RDMN_SW_SUM1 CDH			

SCP ENGINEERING TELEMETRY MAP (FSW BUILD 3031)

SCP ENGINEERING FAST SUBCOM MAP

	word-0	word-1	word-2	word-3	word-4	word-5	word-6	word-7	word-8	word-9	word-10	word-11	word-12	
F0	F-1030 CV_DATA_WORD CDH	F-1024 CIU_FLAGS CDH	F-0333 RTE_FLTBDY_X AACS	F-0334 RTE_FLTBDY_Y AACS	F-0335 RTE_FLTBDY_Z AACS	F-0315 QUAT_F_I2B_1 AACS	F-0316 QUAT_F_I2B_2 AACS	F-0317 QUAT_F_I2B_3 AACS	F-0318 QUAT_F_I2B_4 AACS	F-0051 CSAwDNONZERO AACS	F-1414 SCP_FRAME_ID CDH	F-0561 STRX_TRANSTS AACS	F-1073 EIS_SEF_PgOf CDH	F0

ENGINEERING MEDIUM SUBCOM MAP

	word-13	word-14	word-15	word-16	word-17	word-18	word-19	word-20	word-21	word-22	word-23	word-24	
F0	F-0000 AAC_S_STATE AACS	F-0040 CSA_AS_1 AACS	F-0110 GY_X1_X3_1 AACS	F-0120 GY_X3_AX_1 AACS	F-0130 GY_Y1_Y2_1 AACS	F-0140 GY_Y2_AX_1 AACS	F-0150 GY_Z2_Z3_1 AACS	F-0160 GY_Z3_AX_1 AACS	F-0210 IMU_ST_WD1 AACS	F-3031 PDS_notOK_CT TLCM	F-1034 DEVDEAD_1 CDH	F-1035 DEVDEAD_2 CDH	F0
F2	F-0190 HGA_AZ_ANG AACS	F-0193 HGA_AZ_TRG AACS	F-0194 HGA_CNTRL_ST AACS	F-0195 HGA_EL_ANG AACS	F-0198 HGA_EL_TRG AACS	F-0200 HGA_STATS AACS	F-0227 MANUVR_FLAG AACS	F-0228 MANUVR_STATE AACS	F-0260 MHSA_PITCH AACS	F-0261 MHSA_ROLL AACS	F-0266 MHSA_QD_BAD AACS	F-0267 MHSA_QD_VIEW AACS	F2
F4	F-0241 MHSA_DETA_01 AACS	F-0242 MHSA_DETA_02 AACS	F-0243 MHSA_DETA_03 AACS	F-0244 MHSA_DETB_01 AACS	F-0245 MHSA_DETB_02 AACS	F-0246 MHSA_DETB_03 AACS	F-0247 MHSA_DETB_04 AACS	F-0248 MHSA_DETS_01 AACS	F-0251 MHSA_DETS_02 AACS	F-0252 MHSA_DETS_03 AACS	F-0253 MHSA_DETS_04 AACS	F-0254 MHSA_DETS_04 AACS	F4
F6	F-0283 PACK_ATT AACS	F-0290 POS_ERR_X AACS	F-0291 POS_ERR_Y AACS	F-0292 POS_ERR_Z AACS	F-0330 RTE_CMD_X AACS	F-0331 RTE_CMD_Y AACS	F-0332 RTE_CMD_Z AACS	F-0339 RTE_RAWBOD_X AACS	F-0340 RTE_RAWBOD_Y AACS	F-0341 RTE_RAWBOD_Z AACS	F-1237 RDM_DEV_CFG1 AACS	F-1238 RDM_DEV_CFG2 AACS	F6
F8	F-0345 RWA_RAW_X AACS	F-0346 RWA_RAW_Y AACS	F-0347 RWA_RAW_Z AACS	F-0348 RWA_RAW_S AACS	F-0355 RWA_WHLTRO_S AACS	F-0356 RWA_WHLTRO_X AACS	F-0357 RWA_WHLTRO_Z AACS	F-0358 RWA_WHLTRO_Y AACS	F-0480 SYST_MOM_X AACS	F-0481 SYST_MOM_Y AACS	F-0482 SYST_MOM_Z AACS	F-0277 MOM_UNI_STAT AACS	F8
F10	F-0440 SSA_RAW_RET AACS	F-0442 SSA_RAW_DET AACS	F-0444 SSA_STATUS AACS	F-0446 SSA_SUNHDF_X AACS	F-0447 SSA_SUNHDF_Y AACS	F-0085 EPH_SUN_BX AACS	F-0086 EPH_SUN_BY AACS	F-0470 SUNVEC_RAW_X AACS	F-0471 SUNVEC_RAW_Y AACS	F-0472 SUNVEC_RAW_Z AACS	F-3040 TLCM_DS1 TLCM	F-3042 TLCM_DS2 TLCM	F10
F12	F-1000 AUDIT_O_CNT CDH	F-1001 AUDIT_O_LOST CDH	F-1002 AUDIT_O_W1 CDH	F-1003 AUDIT_O_W2-3 CDH	-----	F-1004 AUDIT_O_W4 CDH	F-1005 MEOK_WORD CDH	F-1092 M_PHASE_BUFF CDH	F-1096 RDM_IMU_STAT CDH	F-1262 RDM_SW_SUM1 CDH	F-1348 RDMN_SW_SUM2 CDH	F-1349 RDMN_SW_SUM2 CDH	F12
F14	F-1455 UPL_CRCERRCT CDH	F-1456 UPL_DOUBERT CDH	F-1457 UPL_FMTERRCT CDH	F-1459 UPL_RECVDCNT CDH	F-1460 UPL_SCPEXCNT CDH	F-1461 UPL_SCPREJECT CDH	F-1462 UPL_SEQERRCT CDH	F-1463 UPL_SINGERCT CDH	F-2145 PWR_FLGS_WRD PWR	F-2150 PWR_STAT_WRD PWR	F-2155 VERIFY_STAT PWR	F-1015 CE_SCP_TIME CDH	F14

SCP ENGINEERING SLOW SUBCOM MAP

	word-25	word-26	word-27	word-28	word-29	word-30	word-31	word-32	word-33	word-34	word-35	word-36
F0	F-0001 ACC_BIAS_-X AACS	F-0002 ACC_BIAS_-Y AACS	F-0003 ACC_BIAS_-Z AACS	F-0004 ACC_BIAS_-S AACS	F-0060 DELTAV_DUR AACS	F-0061 DELTAV_X AACS	F-0062 DELTAV_Y AACS	F-0063 DELTAV_Z AACS	F-0321 QUAT_J2B_1 AACS	F-0322 QUAT_J2B_2 AACS	F-0323 QUAT_J2B_3 AACS	F-0324 QUAT_J2B_4 AACS
F2	F-0070 EPH_ANG_INCL AACS	F-0071 EPH_ANG_NODE AACS	F-0072 EPH_ANG_ORBT AACS	F-0080 EPH_PITCH AACS	F-0094 EQ_CROSS AACS	F-0100 FILT_SUN_X AACS	F-0101 FILT_SUN_Y AACS	F-0102 FILT_SUN_Z AACS	F-0191 HGA_AZ_CMD AACS	F-0197 HGA_EL_POS AACS	F-0196 HGA_EL_CMD AACS	F-0192 HGA_AZ_POS AACS
F4	F-0201 HGA_TIMEOUT AACS	F-0205 IMU_CHK_FROZ AACS	F-0206 IMU_CHK_STAT AACS	F-0220 IMUstatMASK AACS	F-0262 MHSApitchC11 AACS	F-0263 MHSApitchC22 AACS	F-0264 MHSArollC11 AACS	F-0265 MHSArollC22 AACS	F-0268 MOL_STATUS AACS	F-0276 MOM_PRESETS AACS	F-0535 THRONT_ME AACS
F6	F-0182 GYbiasEST_YA AACS	F-0184 GYbiasEST_ZA AACS	F-0180 GYbiasEST_XA AACS	F-0202 COVAR_12(0) AACS	F-0221 COVAR_12(1) AACS	F-0222 COVAR_12(2) AACS	F-0223 COVAR_12(3) AACS	F-0224 COVAR_12(4) AACS	F-0242 COVAR_12(5) AACS	F-0255 COVAR_12(6) AACS	F-0026 COVAR_12(7) AACS	F-0028 COVAR_12(8) AACS
F8	F-0287 PID_INT_X AACS	F-0288 PID_INT_Y AACS	F-0289 POS_INTERR_X AACS	F-0294 POS_INTERR_Y AACS	F-0295 POS_INTERR_Z AACS	F-0475 SUN_CLOCK AACS	F-0476 SUN_SUBMODE AACS	F-0506 CT_MAP_LOST AACS	F-0506 CT_SUN_BADCK AACS	F-0056 PSE_LAST_CMD PWR	F-2110 PSE_LAST_CMD PWR	F-2111 PSE_FULLL_CT PWR
F10	F-0305 QUAT_CORR_1 AACS	F-0306 QUAT_CORR_2 AACS	F-0307 QUAT_CORR_3 AACS	F-0552 STRX_DOTLOS AACS	F-0553 STRX_DOTPROD AACS	F-0559 STRX_NOIZVAR AACS	F-0459 STRX_STAR_ID AACS	F-0551 STRX_CORTEST AACS	F-0560 STRX_CS_SLT AACS	F-0105 GYR_BL_EST_X AACS	F-0106 GYR_BL_EST_Y AACS	F-0107 GYR_BL_EST_Z AACS
F12	F-0336 RTE_INTRR_X AACS	F-0337 RTE_INTRR_Y AACS	F-0338 RTE_INTRR_Z AACS	F-0342 PIDTRO_X AACS	F-0343 PIDTRO_Y AACS	F-0344 PIDTRO_Z AACS	F-0381 SAM_NORM_X AACS	F-0382 SAM_NORM_Y AACS	F-0383 SAM_NORM_Z AACS	F-0411 SAM_NORM_X AACS	F-0412 SAM_NORM_Y AACS	F-0413 SAM_NORM_Z AACS
F14	F-0360 SAM_AZ_ANG AACS	F-0361 SAM_AZ_CMD AACS	F-0379 SAM_EL_POS AACS	F-0363 SAM_AZ_TRG AACS	F-0375 SAM_CNTRL_ST AACS	F-0377 SAM_EL_ANG AACS	F-0378 SAM_EL_CMD AACS	F-0380 SAM_AL_POS AACS	F-0385 SAM_STATS AACS	F-0388 SAM_TIMEOUT AACS	F-0438 SSA_DOT_PRD AACS	F-0439 SSA_PSUN_DIR AACS
F16	F-0390 SAP_AZ_ANG AACS	F-0391 SAP_AZ_CMD AACS	F-0409 SAP_AL_POS AACS	F-0393 SAP_AL_TRG AACS	F-0405 SAP_CNTRL_ST AACS	F-0407 SAP_EL_ANG AACS	F-0408 SAP_EL_CMD AACS	F-0392 SAP_AL_POS AACS	F-0410 SAP_STATS AACS	F-0415 SAP_TIMEOUT AACS	F-0418 SAP_TIMEOUT AACS	F-0449 SAP_TIMEOUT AACS
F18	F-0420 SELT_BRATE_X AACS	F-0421 SELT_BRATE_Y AACS	F-0422 SELT_BRATE_Z AACS	F-0427 SELT_PTCH_ER AACS	F-0431 SELT_Q_R2B_1 AACS	F-0432 SELT_Q_R2B_2 AACS	F-0433 SELT_Q_R2B_3 AACS	F-0434 SELT_ROLL_ER AACS	F-0435 SELT_YAW_ER AACS	F-0446 STIME_AACS	F-0448 STIME_AACS	F-1465 UPL_STATUS_CDH
F20	F-0450 STRX_CMRESET AACS	F-0451 STRX_HIRATIO AACS	F-0452 STRX_IDTRNNO AACS	F-0550 STRX_CAIANS AACS	F-0455 STRX_MULSTAR AACS	F-0558 STRX_NB_CNTS AACS	F-0457 STRX_PULSECT AACS	F-0554 STRX_MB_CNTS AACS	F-0464 STRX_RESET AACS	F-0461 STRX_UNIDSTR AACS	F-0462 STRX_STATE AACS	F-0460 F-0532 THRONT_11(AACS)
F22	F-0490 STRX_ATGAINX AACS	F-0491 STRX_ATGAINZ AACS	F-0492 STRX_BSGAINX AACS	F-0495 STRX_BSGAINZ AACS	F-0496 STRX_BSGAIN AACS	F-0497 COVAR_11(0) AACS	F-0010 COVAR_11(1) AACS	F-0011 COVAR_11(2) AACS	F-0012 COVAR_11(4) AACS	F-0014 COVAR_11(5) AACS	F-0015 COVAR_11(8) AACS	F-0018 COVAR_11(9) AACS
F24	F-0521 THRONT_01 AACS	F-0522 THRONT_02 AACS	F-0523 THRONT_03 AACS	F-0524 THRONT_04 AACS	F-0525 THRONT_05 AACS	F-0526 THRONT_06 AACS	F-0527 THRONT_07 AACS	F-0528 THRONT_08 AACS	F-0530 THRONT_09 AACS	F-0531 THRONT_10 AACS	F-0532 THRONT_11 AACS	F-0532 THRONT_12 AACS
F26	F-0074 EPH_EARTH_BX AACS	F-1008 AUTOENAB_1 CDH	F-1009 AUTOENAB_2 CDH	F-1010 CE_DISCRETE CDH	F-1013 CE_SCPI10TIME CDH	F-1014 CE_SCPI_ID CDH	F-1016 CE_SC_STATE CDH	F-1017 CE_TASK_TOCT CDH	F-1018 CE_TIME_DIFF CDH	F-1019 CE_TOT_MSG_L CDH	F-1020 CE_TOT_Q_ERR CDH
F28	F-1021 CE_WAKEUPF CDH	F-1026 CIX_FLAGS CDH	F-1031 CV_O_COUNT CDH	F-1040 EDF_ERROR_CNT CDH	F-1041 EDF_ERR_CNT1 CDH	F-1042 EDF_ERR_CNT2 CDH	F-1043 EDF_ERR_MAT1 CDH	F-1044 EDF_ERR_MAT2 CDH	F-1045 EDF_FINISH_CDH	F-1046 EDF_INTER_CT CDH	F-1049 EDF_SCLKTIME CDH
F30	F-1060 EIS_BITERCT CDH	F-1061 EIS_FIXPT_OF CDH	F-1062 EIS_FLTPT_OF CDH	F-1063 EIS_FLTPT_UF CDH	F-1064 EIS_IIL_EXEC CDH	F-1065 EIS_ISR_TIMA CDH	F-1066 EIS_LVL0_ERR CDH	F-1067 EIS_MACH_ERR CDH	F-1068 EIS_RT_FAULT CDH	F-1074 EIS_SPR_INT CDH	F-1080 INT_CMDEX_CDH	F-1081 INT_CMDEX_CDH
F32	F-1090 MKH_ITRRC CDH	F-1100 PDS_INTER CDH	F-1101 PDS_SENT CDH	F-1102 PDS_SEQNO CDH	F-1103 PDS_TMOUT_CT CDH	F-1104 PDS_TO_SEQNO CDH	F-0183 GYbiasEST_YB AACS	F-1236 RDM_CONTMODE CDH	F-1253 RDM_GYRORSH CDH	F-1254 RDM_GYRORSH CDH	F-1420 SMOEK_ENABLES CDH
F34	F-0030 COVAR_22(0) AACS	F-0031 COVAR_22(1) AACS	F-0032 COVAR_22(2) AACS	F-0034 COVAR_22(4) AACS	F-0035 COVAR_22(5) AACS	F-0038 COVAR_22(8) AACS	F-0005 ATT_ENABLES AACS	F-0009 ATT_STAT_NEW AACS	F-1256 RDM_GYSCHPE CDH	F-1261 RDM_IMUTWMS CDH	F-1350 RDM_TE_CT_20 CDH	F-1351 RDM_TE_CT_21 CDH
F36	F-1352 RDM_TE_CT_22 CDH	F-1353 RDM_TE_CT_23 CDH	F-1354 RDM_TE_CT_24 CDH	F-1355 RDM_TE_CT_25 CDH	F-1356 RDM_TE_CT_26 CDH	F-1357 RDM_TE_CT_27 CDH	F-1358 RDM_TE_CT_28 CDH	F-1359 RDM_TE_CT_29 CDH	F-1360 RDM_TE_CT_30 CDH	F-1361 RDM_TE_CT_31 CDH	F-1362 RDM_TE_CT_32 CDH	F-1363 RDM_TE_CT_33 CDH
F38	F-1364 RDM_TE_CT_34 CDH	F-1365 RDM_TE_CT_35 CDH	F-1366 RDM_TE_CT_36 CDH	F-1367 RDM_TE_CT_37 CDH	F-1368 RDM_TE_CT_38 CDH	F-1369 RDM_TE_CT_39 CDH	F-1370 RDM_TE_CT_40 CDH	F-1371 RDM_TE_CT_41 CDH	F-1372 RDM_TE_CT_42 CDH	F-1373 RDM_TE_CT_43 CDH	F-1374 RDM_TE_CT_44 CDH	F-1375 RDM_TE_CT_45 CDH
F40	F-1376 RDM_TE_CT_46 CDH	F-1377 RDM_TE_CT_47 CDH	F-1378 RDM_TE_CT_48 CDH	F-1379 RDM_TE_CT_49 CDH	F-1380 RDM_TE_CT_50 CDH	F-1381 RDM_TE_CT_51 CDH	F-1382 RDM_TE_CT_52 CDH	F-1383 RDM_TE_CT_53 CDH	F-1384 RDM_TE_CT_54 CDH	F-1385 RDM_TE_CT_55 CDH	F-1386 RDM_TE_CT_56 CDH	F-1387 RDM_TE_CT_57 CDH
F42	F-1388 RDM_TE_CT_58 CDH	F-1389 RDM_TE_CT_59 CDH	F-1390 RDM_TE_CT_60 CDH	F-1391 RDM_TE_CT_61 CDH	F-1392 RDM_TE_CT_62 CDH	F-1393 RDM_TE_CT_63 CDH	F-1394 RDM_TE_CT_64 CDH	F-1395 RDM_TE_CT_65 CDH	F-1396 RDM_TE_CT_66 CDH	F-1397 RDM_TE_CT_67 CDH	F-1398 RDM_TE_CT_68 CDH	F-1399 RDM_TE_CT_69 CDH
F44	F-1400 RDM_TE_CT_70 CDH	F-1401 RDM_TE_CT_71 CDH	F-1402 RDM_TE_CT_72 CDH	F-1403 RDM_TE_CT_73 CDH	F-1404 RDM_TE_CT_74 CDH	F-1405 RDM_TE_CT_75 CDH	F-1406 TC_ACTV_SCRP CDH	F-1431 TC_CMD_TIME CDH	F-1432 TC_DISCRETES CDH	F-1433 TC_HEAD_ACTV CDH	F-1434 TC_INVLPULMS CDH
F46	F-1436 TC_MAX_ADDR CDH	F-1438 TC_PDS_CMDEX CDH	F-1439 TC_PD_ISINIT CDH	F-1440 TC_PDS_ISTERM CDH	F-1441 TC_SBUS_EXCT CDH	F-1442 TC_SBUS_RXCT CDH	F-1443 TC_SCMD_DATA CDH	F-1444 TC_SCMD_OPCO CDH	F-1445 TC_SCMD_SORS CDH	F-1446 BAT1_CP_CMD PWR	F-1447 BAT1_VTS_CMD PWR	F-0185 GYbiasEST_ZB AACS
F48	F-1450 UPL_CIARUMCT CDH	F-1451 UPL_CUEXCT CDH	F-1452 UPL_CUREJECT CDH	F-1453 UPL_CMDEXTIM CDH	F-1454 UPL_CMDEXENO CDH	F-1455 UPL_INTRPTCT CDH	F-1456 GYbiasEST_XB AACS	F-2030 BAT1_CP_CMD PWR	F-2080 BAT1_VTS_CMD PWR	F-2134 PWR_DATA_W09 PWR	F-2140 PWR_ENA_WORD PWR
F50	F-2001 BAT1_ASOC PWR	F-2002 BAT1_TSOC PWR	F-2003 BAT1_CDRATIO PWR	F-2004 BAT1_CDR_DN PWR	F-2005 BAT1_INT_CHG PWR	F-2006 BAT1_INT_DCH PWR	F-2007 BAT1_CHG_J PWR	F-2009 BAT1_DCH_J PWR	F-2013 BAT1_TPL_AVG PWR	F-2014 BAT1_TPL_GRD PWR	F-2020 BAT1_BD_LCT PWR	F-2021 BAT1_BD_TCT PWR
F52	F-2051 BAT2_ASOC PWR	F-2052 BAT2_TSOC PWR	F-2053 BAT2_CDRATIO PWR	F-2054 BAT2_CDR_DN PWR	F-2055 BAT2_INT_CHG PWR	F-2056 BAT2_INT_DCH PWR	F-2057 BAT2_CHG_I PWR	F-2058 BAT2_DCH_I PWR	F-2059 BAT2_TPL_AVG PWR	F-2063 BAT2_TPL_GRD PWR	F-2070 BAT2_BD_J_LT PWR	F-2071 BAT2_BD_TCT PWR
F54	F-2022 BAT1_HI_DCT PWR	F-2023 BAT1_HI_LV_C PWR	F-2024 BAT1_HI_LV_C PWR	F-2025 BAT1_NTE_CT PWR	F-2026 BAT1_NTE_CT PWR	F-2027 BAT1_NTE_CT PWR	F-2028 BAT1_NTE_CT PWR	F-2029 BAT1_NTE_CT PWR	F-2031 BAT1_CR_CMD PWR	F-2034 BAT1_VTS_CMD PWR	F-2035 BAT1_VTS_CMD PWR	F-2036 BAT1_VTL_LTM PWR
F56	F-2072 BAT2_HI_DCT PWR	F-2073 BAT2_HI_LV_C PWR	F-2074 BAT2_HI_LV_C PWR	F-2075 BAT2_DAY_CT PWR	F-2076 BAT2_DAY_CT PWR	F-2077 BAT2_DAY_CT PWR	F-2078 BAT2_DAY_CT PWR	F-2079 BAT2_DAY_CT PWR	F-2082 BAT2_CR_CMD PWR	F-2084 BAT2_CR_CMD PWR	F-2085 BAT2_VTS_CMD PWR	F-2086 BAT2_VTS_CMD PWR
F58	F-2121 SCSC_DAY_CT PWR	F-2122 SCSC_NTE_CT PWR	F-2123 SOLAR_DAY_CT PWR	F-2124 SOLAR_NTE_CT PWR	F-2125 DTCEABLES THRM	F-2126 DTCPRLSTAT THRM	F-2127 DTCWARNFLG THRM	F-2128 XSUMSGENAB THRM	F-2575 CMDLOSS_TMR TLCM	F-3010 LGA_TIMER TLCM	F-3044 TLCM_MODE TLCM	F-3046 TLCM_PARM TLCM
F60	F-3051 TLCM_SUBCOM1 TLCM	F-3052 TLCM_SUBCOM2 TLCM	F-3053 TLCM_SUBCOM3 TLCM	F-1110 POBimgCIU138 CDH	F-1130 POBimgCIU138 CDH	F-3060 UPLK_TIMEOUT TLCM	F-1112 POBimgCIU232 CDH	F-1113 POBimgCIU232 CDH	F-1114 POBimgCIU246 CDH	F-1115 POBimgCIU246 CDH	F-1116 POBimgCIU262 CDH	F-1117 POBimgCIU262 CDH
F62	F-1118 POBimgCIU292 CDH	F-1119 POBimgCIU294 CDH	F-1120 POBimgCIU298 CDH	F-1121 POBimgCIU2A2 CDH	F-1122 POBimgCIU2A2 CDH	F-1123 POBimgCIK21C CDH	F-1124 POBimgCIK270 CDH	F-1129 POBimgCIK270 CDH	F-1140 POBimgCIK286 CDH	F-1142 POBimgCIK286 CDH	F-1144 POBimgCIK288 CDH	F-1152 POBimgCIK288 CDH

SCP MISSION MODE TELEMMTRY MAP (FSW BUILD 3031)

SCP MISSION FAST SUBCOM MAP

	word-0	word-1	word-2	word-3	word-4	word-5	word-6	word-7	word-8	word-9	word-10	
FO	F-1030 CV_DATA_WORD CDH	F-1024 CIU_FLAGS CDH	F-0333 RTE_FLTBDY_X AACS	F-0334 RTE_FLTBDY_Y AACS	F-0335 RTE_FLTBDY_Z AACS	F-0315 QUAT_F_J2B_1 AACS	F-0316 QUAT_F_J2B_2 AACS	F-0317 QUAT_F_J2B_3 AACS	F-0318 QUAT_F_J2B_4 AACS	F-0051 CSAwDNONZERO AACS	F-1414 SCP_FRAME_ID CDH	FO

SCP MISSION MEDIUM SUBCOM MAP

	word-11	word-12	word-13	word-14	word-15	word-16	word-17	word-18	word-19	word-20	word-21	word-22	
F1	F-0000 AACS_STATE AACS	F-0040 CSA_AS_1 AACS	F-0110 GY_X1_X3_1 AACS	F-0120 GY_X2_AX_1 AACS	F-0130 GY_Y1_Y2_1 AACS	F-0140 GY_Y2_AV_1 AACS	F-0150 GY_Z2_Z3_1 AACS	F-0160 GY_Z3_AZ_1 AACS	F-0190 HGA_AZ_ANG AACS	F-0193 HGA_AZ_TRG AACS	F-0195 HGA_EL_ANG AACS	F-0198 HGA_EL_TRG AACS	FO
F2	F-0241 MHS_A_DETA_O1 AACS	F-0242 MHS_A_DETA_O2 AACS	F-0243 MHS_A_DETA_O3 AACS	F-0244 MHS_A_DETA_O4 AACS	F-0245 MHS_A_DETB_O1 AACS	F-0246 MHS_A_DETB_O2 AACS	F-0247 MHS_A_DETB_O3 AACS	F-0248 MHS_A_DETB_O4 AACS	F-0251 MHS_A_DETS_O1 AACS	F-0252 MHS_A_DETS_O2 AACS	F-0253 MHS_A_DETS_O3 AACS	F-0254 MHS_A_DETS_O4 AACS	F1
F3	F-0200 HGA_STATS AACS	F-0210 IMU_ST_WD1 AACS	F-0227 MANUVR_FLAG AACS	F-0228 MANUVR_STATE AACS	F-0260 MHSA_PITCH AACS	F-0261 MHSA_ROLL AACS	F-0266 MHSA_QD_BAD AACS	F-0267 MHSA_QD_VIEW AACS	F-0470 SUNVEC_RAW_X AACS	F-0471 SUNVEC_RAW_Y AACS	F-0472 SUNVEC_RAW_Z AACS	F-1092 MEOK_WORD CDH	F2
F4	F-0283 PACK_ATT AACS	F-0290 POS_ERR_X AACS	F-0291 POS_ERR_Y AACS	F-0292 POS_ERR_Z AACS	F-0330 RTE_CMD_X AACS	F-0331 RTE_CMD_Y AACS	F-0332 RTE_CMD_Z AACS	F-0339 RTE_RAWBOD_X AACS	F-0340 RTE_RAWBOD_Y AACS	F-0341 RTE_RAWBOD_Z AACS	F-0460 STRX_STATE AACS	F-1262 RDM_IMU_STAT CDH	F3
F5	F-0345 RWA_RAW_X AACS	F-0346 RWA_RAW_Y AACS	F-0347 RWA_RAW_Z AACS	F-0348 RWA_RAW_S AACS	F-0355 RWA_WHLTRQ_S AACS	F-0356 RWA_WHLTRQ_X AACS	F-0357 RWA_WHLTRQ_Y AACS	F-0358 SYST_MOM_X AACS	F-0480 SYST_MOM_Y AACS	F-0481 SYST_MOM_Z AACS	F-0482 MOM_UNL_STAT AACS	F-0277 MOM_UML_STAT AACS	F4
F6	F-0440 SSA_RAW_RET AACS	F-0442 SSA_RAW_DET AACS	F-0444 SSA_STATUS AACS	F-1000 AUDIT_Q_CNT CDH	F-1002 AUDIT_Q_W1 CDH	F-1003 AUDIT_Q_W2_3 CDH	----- ----- -----	F-1004 AUDIT_Q_W4 CDH	F-1005 AUDIT_Q_W5 CDH	F-1096 MLPHASE_BUFF CDH	F-3040 TLCM_DSW1 TLCM	F-3042 TLCM_DSW2 TLCM	F5
F7	F-1348 RDMN_SW_SUM1 CDH	F-1349 RDMN_SW_SUM2 CDH	F-1455 UPL_CRCERRCT CDH	F-1456 UPL_DOUBERC CDH	F-1457 UPL_FMTERRCT CDH	F-1459 UPL_RECVDCNT CDH	F-1460 UPL_SCPXCNTR CDH	F-1461 UPL_SCPCREJECT CDH	F-1462 UPL_SEQERRCT CDH	F-1463 UPL_SINGERCT CDH	F-2145 PWR_FLGs_WRD PWR	F-2150 PWR_STAT_WRD PWR	F6
	F-1034 DEVDEAD_1 CDH	F-1035 DEVDEAD_2 CDH	F-0360 SAM_AZ_ANG AACS	F-0363 SAM_AZ_TRG AACS	F-0377 SAM_EL_LANG AACS	F-0380 SAM_EL_TRG AACS	F-0385 SAM_STATS AACS	F-0390 SAP_AZ_ANG AACS	F-0393 SAP_AZ_TRG AACS	F-0407 SAP_EL_ANG AACS	F-0410 SAP_EL_TRG AACS	F-0415 SAP_STATS AACS	F7

SCP MISSION FAST SUBCOM MAP (NON-CONTROL SCP)

	word-29	word-30	word-31	word-32	word-33	word-34	word-35	word-36
FO	N-1030 CV_DATA_WORD CDH	N-1024 CIU_FLAGS CDH	N-0333 RTE_FLTBDY_X AACS	N-0334 RTE_FLTBDY_Y AACS	N-0335 RTE_FLTBDY_Z AACS	N-0315 QUAT_F_J2B_1 AACS	N-0316 QUAT_F_J2B_2 AACS	N-0317 QUAT_F_J2B_3 AACS

SCP MISSION SLOW SUBCOM MAP

	word-23	word-24	word-25	word-26	word-27	word-28	
F0	F-0001 ACC_BIAS_-X AAKS	F-0002 ACC_BIAS_-Y AAKS	F-0003 ACC_BIAS_+Z AAKS	F-0004 ACC_BIAS_+S AAKS	F-0005 ATT_ENABLES AAKS	F-0009 ATT_STAT_NEW AAKS	F0
F1	F-0060 DELTAV_DUR AAKS	F-0061 DELTAV_X AAKS	F-0062 DELTAV_Y AAKS	F-0063 DELTAV_Z AAKS	F-0080 EPH_PITCH AAKS	F-0094 EQ_CROSS AAKS	F1
F2	F-0070 EPH_ANG_INCL AAKS	F-0071 EPH_ANG_NODE AAKS	F-0072 EPH_ANG_ORBT AAKS	F-0074 EPH_EARTH_BX AAKS	F-0075 EPH_EARTH_BY AAKS	F-0076 EPH_EARTH_BZ AAKS	F2
F3	F-0105 GYR_BEST_X AAKS	F-0106 GYR_BEST_Y AAKS	F-0107 GYR_BEST_Z AAKS	STRX_DOTPROD AAKS	STRX_NOIZVAR AAKS	F-0448 STIME AAKS	F3
F4	F-0459 STRX_STAR_ID AAKS	F-0451 STRX_HIRATIO AAKS	F-0550 STRX_CAISSANG AAKS	F-0558 STRX_NB_CNTS AAKS	F-0554 STRX_MB_CNTS AAKS	F-0560 STRX_SC_SLIT AAKS	F4
F5	F-0194 HGA_CNTRL_ST AAKS	F-0201 HGA_TIMEOUT AAKS	F-0375 SAM_CNTRL_ST AAKS	F-0388 SAM_TIMEOUT AAKS	F-0405 SAP_CNTRL_ST AAKS	F-0418 SAP_TIMEOUT AAKS	F5
F6	F-0262 MHSApitchC11 AAKS	F-0263 MHSApitchC22 AAKS	F-0264 MHSArollC11 AAKS	F-0265 MHSArollC22 AAKS	XSU_CMD_WORD TLM	XSU_O_FULL TLM	F6
F7	F-0287 PID_INT_X AAKS	F-0288 PID_INT_Y AAKS	F-0289 PID_INT_Z AAKS	F-0293 POS_INTERR_X AAKS	F-0294 POS_INTERR_Y AAKS	F-0295 POS_INTERR_Z AAKS	F7
F8	F-0305 QUAT_CORR_1 AAKS	F-0306 QUAT_CORR_2 AAKS	F-0307 QUAT_CORR_3 AAKS	F-0464 STRX_WORD AAKS	F-1080 INT_CMDEX_CT CDH	F-1081 INT_CMDRJ_CT CDH	F8
F9	F-0336 RTE_INTERR_X AAKS	F-0337 RTE_INTERR_Y AAKS	F-0338 RTE_INTERR_Z AAKS	F-0342 PIDTRQ_X AAKS	F-0343 PIDTRQ_Y AAKS	F-0344 PIDTRQ_Z AAKS	F9
F10	F-0381 SAM_NORM_X AAKS	F-0382 SAM_NORM_Y AAKS	F-0383 SAM_NORM_Z AAKS	F-0411 SAP_NORM_X AAKS	F-0412 SAP_NORM_Y AAKS	F-0413 SAP_NORM_Z AAKS	F10
F11	F-0452 STRX_IDTRNNO AAKS	F-0453 STRX_MULSTAR AAKS	F-0450 STRX_CMRESET AAKS	F-0462 STRX_UNIDSTR AAKS	F-1420 SMOEX_ENABLs CDH	F-1045 EDF_FINISH CDH	F11
F12	F-0521 THROnT_01 AAKS	F-0522 THROnT_02 AAKS	F-0523 THROnT_03 AAKS	F-0524 THROnT_04 AAKS	F-0525 THROnT_05 AAKS	F-0526 THROnT_06 AAKS	F12
F13	F-0527 THROnT_07 AAKS	F-0528 THROnT_08 AAKS	F-0529 THROnT_09 AAKS	F-0530 THROnT_10 AAKS	F-0531 THROnT_11 AAKS	F-0532 THROnT_12 AAKS	F13
F14	F-1008 AUTOENAB_1 CDH	F-1009 AUTOENAB_2 CDH	F-1014 CE_SCP_ID CDH	F-1016 CE_SC_STATE CDH	F-1018 CE_TIME_DIFF CDH	F14
F15	F-1026 CIX_FLAGS CDH	F-1031 CV_O_COUNT CDH	F-1049 EDF_SCLKTIME CDH	F-1237 RDM_DEV_CFG1 AAKS	F-1238 RDM_DEV_CFG2 AAKS	F15
F16	F-1101 PDS_SENT CDH	F-1102 PDS_SECON CDH	F-1103 PDS_TMOUT_CT CDH	F-1104 PDS_TO_SEQNO CDH	F-3031 PDS_NOTOK_CT TLM	F-1236 RDM_CONTMODE CDH	F16
F17	F-1253 RDM_GYROPWSH CDH	F-1254 RDM_GYORCRSH CDH	F-1256 RDM_GYSPCHSE CDH	F-1261 RDM_IMUTWMIS CDH	F-1261 BAT1_CDR_DN PWR	F-2004 BAT1_CDR_DN PWR	F17
F18	F-2001 BAT1_ASOC PWR	F-2002 BAT1_TSOC PWR	F-2003 BAT1_CDRATIO PWR	F-2051 BAT2_ASOC PWR	F-2052 BAT2_TSOC PWR	F-2053 BAT2_CDRATIO PWR	F18
F19	F-1350 RDM_TE_CT_20 CDH	F-1351 RDM_TE_CT_21 CDH	F-1352 RDM_TE_CT_22 CDH	F-1353 RDM_TE_CT_23 CDH	F-1354 RDM_TE_CT_24 CDH	F-1355 RDM_TE_CT_25 CDH	F19
F20	F-1356 RDM_TE_CT_26 CDH	F-1357 RDM_TE_CT_27 CDH	F-1358 RDM_TE_CT_28 CDH	F-1359 RDM_TE_CT_29 CDH	F-1360 RDM_TE_CT_30 CDH	F-1361 RDM_TE_CT_31 CDH	F20
F21	F-1362 RDM_TE_CT_32 CDH	F-1363 RDM_TE_CT_33 CDH	F-1364 RDM_TE_CT_34 CDH	F-1365 RDM_TE_CT_35 CDH	F-1366 RDM_TE_CT_36 CDH	F-1367 RDM_TE_CT_37 CDH	F21
F22	F-1368 RDM_TE_CT_38 CDH	F-1369 RDM_TE_CT_39 CDH	F-1370 RDM_TE_CT_40 CDH	F-1371 RDM_TE_CT_41 CDH	F-1372 RDM_TE_CT_42 CDH	F-1373 RDM_TE_CT_43 CDH	F22
F23	F-1374 RDM_TE_CT_44 CDH	F-1375 RDM_TE_CT_45 CDH	F-1376 RDM_TE_CT_46 CDH	F-1377 RDM_TE_CT_47 CDH	F-1378 RDM_TE_CT_48 CDH	F-1379 RDM_TE_CT_49 CDH	F23
F24	F-1380 RDM_TE_CT_50 CDH	F-1381 RDM_TE_CT_51 CDH	F-1382 RDM_TE_CT_52 CDH	F-1383 RDM_TE_CT_53 CDH	F-1384 RDM_TE_CT_54 CDH	F-1385 RDM_TE_CT_55 CDH	F24
F25	F-1386 RDM_TE_CT_56 CDH	F-1387 RDM_TE_CT_57 CDH	F-1388 RDM_TE_CT_58 CDH	F-1389 RDM_TE_CT_59 CDH	F-1390 RDM_TE_CT_60 CDH	F-1391 RDM_TE_CT_61 CDH	F25
F26	F-1392 RDM_TE_CT_62 CDH	F-1393 RDM_TE_CT_63 CDH	F-1394 RDM_TE_CT_64 CDH	F-1395 RDM_TE_CT_65 CDH	F-1396 RDM_TE_CT_66 CDH	F-1397 RDM_TE_CT_67 CDH	F26
F27	F-1398 RDM_TE_CT_68 CDH	F-1399 RDM_TE_CT_69 CDH	F-1400 RDM_TE_CT_70 CDH	F-1401 RDM_TE_CT_71 CDH	F-1402 RDM_TE_CT_72 CDH	F-1403 RDM_TE_CT_73 CDH	F27
F28	F-1404 RDM_TE_CT_74 CDH	F-1405 RDM_TE_CT_75 CDH	F-1410 SCP_DATAFUL CDH	F-2565 DTC_PRU_STAT THRIM	F-2570 DTC_WARN_FLG TLM	F-3046 TLCM_PARM TLM	F28
F29	F-1430 TC_ACTV_SCRP CDH	F-1438 TC_PDS_CMDEX CDH	F-1439 TC_PD_ISINIT CDH	F-1440 TC_PD_JTERM CDH	F-1441 TC_SBUS_EXCT CDH	F-1442 TC_SBUS_RJCT CDH	F29
F30	F-1443 TC_CMDS_DATA CDH	F-1444 TC_CMDS_OPCO CDH	F-1452 UPL_CIUREJECT CDH	F-1450 UPL_CIARMCT CDH	F-1451 UPL_CUEXCNT CDH	F-1458 UPL_INTRPTCT CDH	F30
F31	F-3051 TLCM_SUBCOM1 TLCM	F-3052 TLCM_SUBCOM2 TLCM	F-3053 TLCM_SUBCOM3 TLCM	F-3054 TLCM_SUBCOM4 TLCM	F-3055 TLCM_SUBCOM5 TLCM	F-3056 CMD_LOSS_TMR TLCM	F31