Table A2.2.8 Table of Contents

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IUS - IUS Subsystem
STRU - Structure System
RFS - Radio Frequency Subsystem
MDS - Modulation Demodulation Subsystem
PPS - Power/Pyro Subsystem
CDS - Command and Data Subsystem
AACS - Attitude and Articulation Control Subsystem
RPM - Retro Propulsion Module Subsystem
TEMP - Temperature Control Subsystem
DEV - Devices Subsystem
DMS - Data Management Subsystem
SXA - S/X-Band Antenna Subsystem
EUV - Extreme Ultraviolet Subsystem
EPD - Energetic Particle Detection Subsystem
PPR - PhotoPolarimeter Radiometer Subsystem
HIC - Heavy Ion Counter Subsystem
DDS - Dust Detector Subsystem
PLS - Plasma Subsystem
UVS - ultraviolet Spectrometer Subsystem
MAG - Magnetometer Subsystem
SSI - Solid State Image Subsystem
NIMS - Near Infrared Magnetometer Subsystem
SCAS - Science Calibration Subsystem
XSDC - X-Band to S-Band Downconverter
RRH - Radio Relay Hardware
OPE - Orbiter Purge Equipment
PRB - Probe Equipment
Phase 2 Spare Fixed Decom Commutator Slots

Table A2.7.B. Engineering Measurements (RJ:all_chan - 11/01/94)
IUS - IUS SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1665 | CENTAUR STATUS WORD 1 | | TZA 00 | | 8 | V D | IUS | IUS STAT 1 |
| E-1666 | CENTAUR STATUS WORD 2 | | TZB 00 | | 8 | V D | IUS | IUS STAT 2 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
STRU - STRUCTURE SYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0000 | BAY 1 TEMPERATURE | -78. to 100. Deg | T1A 5E | LLM1A N1D09 1 | 8 | F T | STRU | BAY 1 T |
| E-0001 | BAY 2 TEMPERATURE | -78. to 100. Deg | T1B 5E | LLM1B N1D09 1 | 8 | F T | STRU | BAY 2 T |
| E-0002 | BAY 3 TEMPERATURE | -78. to 100. Deg | T1A 76 | LLM1A N1D09 2 | 8 | F T | STRU | BAY 3 T |
| E-0003 | BAY 4 TEMPERATURE | -78. to 100. Deg | T1B 66 | LLM1B N1D09 2 | 8 | F T | STRU | BAY 4 T |
| E-0004 | BAY 5 TEMPERATURE | -78. to 100. Deg | T1A 6A | LLM1A N1D63 1 | 8 | F T | STRU | BAY 5 T |
| E-0005 | BAY 6 TEMPERATURE | -78. to 100. Deg | T1B 77 | LLM1B N1D63 1 | 8 | F T | STRU | BAY 6 T |
| E-0006 | BAY 7 TEMPERATURE | -78. to 100. Deg | T1A 7E | LLM1A N1D63 2 | 8 | F T | STRU | BAY 7 T |
| E-0007 | BAY 8 TEMPERATURE | -78. to 100. Deg | T1B 7E | LLM1B N1D63 2 | 8 | F T | STRU | BAY 8 T |
| E-0008 | SCAN PLATFORM TEMPERATURE | -102. to 74. Deg | T2A 5C | LLM2A N1D09 1 | 8 | F T | STRU | SPLAT T |
| E-0009<br>E-0009 | DESPUN STRUCTURE 2 TEMPERATURE | -78. to 100. Deg | T2A 53 | LLM2A N1D41 1<br>LLM2A N1D68 1 | 8 | F T | STRU<br>STRU | DESPUN T 2 |
| E-0010<br>E-0010 | BAY A TEMPERATURE | -78. to 100. Deg | T2A 77 | LLM2A N1D41 2<br>LLM2A N1D68 2 | 8 | F T | STRU<br>STRU | BAY A T |
| E-0011<br>E-0011 | BAY B TEMPERATURE | -78. to 100. Deg | T2A 5B | LLM2A N1D04 1<br>LLM2A N1D31 1 | 8 | F T | STRU<br>STRU | BAY B T |
| E-0012<br>E-0012 | BAY C TEMPERATURE | -78. to 100. Deg | T2A 66 | LLM2A N1D04 2<br>LLM2A N1D31 2 | 8 | F T | STRU<br>STRU | BAY C T |
| E-0013 | BAY D TEMPERATURE | -78. to 100. Deg | T2A 7B | LLM2A N1D25 1 | 8 | F T | STRU | BAY D T |
| E-0014 | BAY E TEMPERATURE | -78. to 100. Deg | T2A 67 | LLM2A N1D25 2 | 8 | F T | STRU | BAY E T |
| E-0015<br>E-0015 | DESPUN STRUCTURE 1 TEMPERATURE | -78. to 100. Deg | T2A 6E | LLM2A N1D58 1<br>LLM2A N1D85 1 | 8 | F T | STRU<br>STRU | DESPUN T 1 |
| E-0016 | CONTAMINATION MONITOR TELEMETRY | 0 to 3 VDC | T1B 36 | LLM1B T2S01 | 8 | F A | STRU | CM TLM |
| E-0017<br>E-0017<br>E-0017 | SUNGATE TEMPERATURE | -102. to 74. Deg | T1B 73 | LLM1B N1D36 1<br>LLM1B N1D52 1<br>LLM1B N1D54 1 | 8 | F T | STRU<br>STRU<br>STRU | SUN GATE T |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
RFS - RADIO FREQUENCY SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0018 | RFS/PPS STATUS WORD 1 | | T1A 00 | | 8 | F D | RFS | RFS/P ST 1 |
| E-0019 | RFS/PPS STATUS WORD 2 | | T1B 00 | | 8 | F D | RFS | RFS/P ST 2 |
| E-0020 | RFS STATUS WORD 1 A | | T1A 08 | LLM1A N1D37 1 | 8 | F D | RFS | RFS ST 1A |
| E-0020 | | | | LLM1A N1D64 1 | | | RFS | |
| E-0021 | RFS STATUS WORD 2 B | | T1B 09 | LLM1B N1D37 2 | 8 | F D | RFS | RFS ST 2B |
| E-0021 | | | | LLM1B N1D64 2 | | | RFS | |
| E-0022 | RECEIVER 1/2 VCO VOLTAGE COARSE | -75. to +75. KHZ | T1B 33 | LLM1B S1S03 | 8 | B A | RFS | VCO V C |
| E-0023 | RECEIVER 1/2 VCO VOLTAGE FINE | -30. to +30. KHZ | T1A 46 | LLM1A S1S03 | 8 | B A | RFS | FCP V F |
| E-0024 | RECEIVER AGC A | -70. to -152. DBM | T1A 33 | LLM1A S2S01 | 8 | B A | RFS | RCV AGC A |
| E-0024 | | | | LLM1A S2S03 | | | RFS | |
| E-0024 | | | | LLM1A S2S05 | | | RFS | |
| E-0025 | RECEIVER AGC B | -70. to -152. DBM | T1B 38 | LLM1B S2S00 | 8 | B A | RFS | RCV AGC B |
| E-0025 | | | | LLM1B S2S02 | | | RFS | |
| E-0025 | | | | LLM1B S2S04 | | | RFS | |
| E-0025 | | | | LLM1B S2S06 | | | RFS | |
| E-0026 | RECEIVER RANGING AGC VOLTAGE | -70. to -152. DBM | T1B 46 | LLM1B S1S06 | 8 | B A | RFS | RNG AGC V |
| E-0027 | RECEIVER CURRENT | 0. to 225. MA | T1B 24 | LLM1B N1D15 2 | 8 | B A | RFS | RCV I |
| E-0027 | | | | LLM1B N1D17 2 | | | RFS | |
| E-0027 | | | | LLM1B N1D90 2 | | | RFS | |
| E-0028 | RECEIVER LOCAL OSCILATOR DRIVE | 0. to 6. DBM | T1A 4C | LLM1A N1D00 2 | 8 | B A | RFS | LOC OSC DR |
| E-0028 | | | | LLM1A N1D73 2 | | | RFS | |
| E-0028 | | | | LLM1A N1D89 2 | | | RFS | |
| E-0029 | USO INNER OVEN CURRENT | 0. to 50. MA | T1B 2D | LLM1B N1D36 2 | 8 | F A | RFS | USO OV I |
| E-0029 | | | | LLM1B N1D52 2 | | | RFS | |
| E-0029 | | | | LLM1B N1D54 2 | | | RFS | |
| E-0030 | S-BAND TWT REGULATED VOLTAGE | 0. to 25. Volt | T1A 1B | LLM1A N1D36 1 | 8 | F A | RFS | S TWT V |
| E-0030 | | | | LLM1A N1D52 1 | | | RFS | |
| E-0030 | | | | LLM1A N1D54 1 | | | RFS | |
| E-0031 | S-BAND TWT DRIVE | -4. to +8. DBM | T1A 24 | LLM1A N1D36 2 | 8 | B A | RFS | S TWT DR |
| E-0031 | | | | LLM1A N1D52 2 | | | RFS | |
| E-0031 | | | | LLM1A N1D54 2 | | | RFS | |
| E-0032 | S-BAND TWT CATHODE CURRENT | 0. to 80. MA | T1A 2A | LLM1A T1S03 | 8 | F A | RFS | S TWT CA I |
| E-0032 | | | | LLM1A N1D15 1 | | | RFS | |
| E-0032 | | | | LLM1A N1D17 1 | | | RFS | |
| E-0032 | | | | LLM1A N1D90 1 | | | RFS | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
RFS - RADIO FREQUENCY SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0033 | S-BAND TWT HELIX CURRENT | 0. to 20. MA | T1B 3B | LLM1B T2S06 | 8 | F A | RFS | S TWT HE I |
| E-0034 | LOW-GAIN ANTENNA DRIVE | +27. to +45. DBM | T1A 2D | LLM1A T1S09 | 8 | B A | RFS | LGA DR |
| E-0034 | | | | LLM1A N1D15 2 | | | RFS | |
| E-0034 | | | | LLM1A N1D17 2 | | | RFS | |
| E-0034 | | | | LLM1A N1D90 2 | | | RFS | |
| E-0035 | S-BAND HIGH GAIN ANTENNA DRIVE | +27. to +45. DBM | T1B 4C | | 8 | B A | RFS | S HGA DR |
| E-0036 | S-BAND EXCITER CURRENT | 0. to 110. MA | T1B 41 | LLM1B N1D15 1 | 8 | F A | RFS | S EXC I |
| E-0036 | | | | LLM1B N1D17 1 | | | RFS | |
| E-0036 | | | | LLM1B N1D90 1 | | | RFS | |
| E-0037 | X-BAND TWT REGULATED VOLTAGE | 0. to 25. Volt | T1B 2A | | 8 | F A | RFS | X TWT V |
| E-0038 | X-BAND TWT DRIVE | -6. to +6. DBM | T1A 38 | | 8 | B A | RFS | X TWT DR |
| E-0039 | X-BAND TWT HELIX CURRENT | 0. to 8. MA | T1A 1C | | 8 | F A | RFS | X TWT HE I |
| E-0040 | X-BAND TWT CATHODE CURRENT | 0. to 60. MA | T1B 1B | | 8 | F A | RFS | X TWT CA I |
| E-0041 | X-BAND EXCITER CURRENT | 0. to 160. MA | T1B 21 | | 8 | F A | RFS | X EXC I |
| E-0042 | X-BAND HIGH GAIN ANTENNA DRIVE | +30. to +44. W | T1A 19 | | 8 | B A | RFS | X HGA DR |
| E-0043 | RECEIVER VCO TEMPERATURE | -78. to 100. Deg | T1A 57 | LLM1A N1D00 1 | 8 | F T | RFS | REC VCO T |
| E-0043 | | | | LLM1A N1D73 1 | | | RFS | |
| E-0043 | | | | LLM1A N1D89 1 | | | RFS | |
| E-0044 | S-BAND TWT BASE TEMPERATURE | -68. to 148. Deg | T1A 61 | LLM1A N1D26 1 | 8 | F T | RFS | S TWT B T |
| E-0045 | S-BAND HYBRID TEMPERATURE | -78. to 100. Deg | T1A 5B | LLM1A N1D26 2 | 8 | F T | RFS | S HYB T |
| E-0046 | X-BAND TWT BASE TEMPERATURE | -68. to 148. Deg | T1B 61 | | 8 | F T | RFS | X TWT B T |
| E-0047 | X-BAND HYBRID TEMPERATURE | -78. to 100. Deg | T1A 77 | | 8 | F T | RFS | X HYB T |
| E-0048 | X-BAND RF MONITOR TEMPERATURE | -78. to 100. Deg | T1A 67 | | 8 | F T | RFS | X RF MON T |
| E-0049 | X-BAND EXCITER TEMPERATURE | -78. to 100. Deg | T1B 6E | | 8 | F T | RFS | X EXC T |
| E-0050 | TRANSMITTER RF SWITCH TEMPERATURE | -78. to 100. Deg | T1B 5B | LLM1B N1D26 1 | 8 | F T | RFS | XMT RFSW T |
| E-0051 | AUXILLIARY OSCILLATOR TEMPERATURE | -78. to 100. Deg | T1B 67 | LLM1B N1D26 2 | 8 | F T | RFS | AUX OSC T |
| E-0052 | RFS STATUS WORD 1B | | T1B 08 | LLM1B N1D37 1 | 8 | F D | RFS | RFS ST 1B |
| E-0052 | | | | LLM1B N1D64 1 | | | RFS | |
| E-0053 | RFS STATUS WORD 2A | | T1A 09 | LLM1A N1D37 2 | 8 | F D | RFS | RFS ST 2A |
| E-0053 | | | | LLM1A N1D64 2 | | | RFS | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
RFS - RADIO FREQUENCY SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1551 | LGA RECEIVER SW STATUS | 0. to 3. Volt | T1A 36 | | 8 | F A | RFS | LGA RCV ST |
| E-1552 | LGA POWER SUPPLY 1 CURRENT | 0. to 3. Volt | T1A 37 | | 8 | F A | RFS | LGA PWR 1 |
| E-1553 | LGA POWER SUPPLY 2 CURRENT | 0. to 3. Volt | T1B 31 | | 8 | F A | RFS | LGA PWR 2 |
| E-1556 | LGA TRANSMITTER SW STATUS | 0. to 3. Volt | T1B 42 | | 8 | F A | RFS | LGA XMT ST |
| E-1557 | LGA TRANSMITTER SW TEMPERATURE | -102. to +74. Deg | T1A 6E | | 8 | F A | RFS | LGA SW T |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
MDS - MODULATION DEMODULATION SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0055 | TMU STATUS WORD 1 (A) | | T1A 0A | LLM1A N1D10 1 | 8 | F D | MDS | TMU ST 1A |
| E-0055 | | | | LLM1A N1D74 1 | | | MDS | |
| E-0056 | TMU STATUS WORD 2 (A) | | T1A 0B | LLM1A N1D10 2 | 8 | F D | MDS | TMU ST 2A |
| E-0056 | | | | LLM1A N1D74 2 | | | MDS | |
| E-0057 | CDU SIGNAL TO NOISE RATIO A | | T1A 04:05 | | 16 | D | MDS | CDU SNR A |
| E-0058 | CDU OSCILLATOR MONITOR A | | T1A 03 | LLM1A N1D16 2 | 8 | F D | MDS | CDU O MONA |
| E-0058 | (THIS SAMPLING NOT VALID) | | | LLM1A N1D32 2 | | | MDS | |
| E-0058 | (THIS SAMPLING NOT VALID) | | | LLM1A N1D34 2 | | | MDS | |
| E-0059 | TMU STATUS WORD 1 (B) | | T1B 0A | LLM1B N1D10 1 | 8 | F D | MDS | TMU ST 1B |
| E-0059 | | | | LLM1B N1D74 1 | | | MDS | |
| E-0060 | TMU STATUS WORD 2 (B) | | T1B 0B | LLM1B N1D10 2 | 8 | F D | MDS | TMU ST 2B |
| E-0060 | | | | LLM1B N1D74 2 | | | MDS | |
| E-0061 | CDU SIGNAL TO NOISE RATIO B | | T1B 04:05 | | 16 | D | MDS | CDU SNR B |
| E-0062 | CDU OSCILLATOR MONITOR B | | T1B 03 | LLM1B N1D16 2 | 8 | F D | MDS | CDU O MONB |
| E-0062 | (THIS SAMPLING NOT VALID) | | | LLM1B N1D32 2 | | | MDS | |
| E-0062 | (THIS SAMPLING NOT VALID) | | | LLM1B N1D34 2 | | | MDS | |
| *E-0065 | PPS/MDS/CDS STATUS WORD 1 | | T1A 01 | LLM1A N1D43 1 | 8 | B D | *MDS | P/M/C ST 1 |
| *E-0066 | PPS/MDS/CDS STATUS WORD 2 | | T1B 01 | LLM1B N1D43 1 | 8 | B D | *MDS | P/M/C/ST 2 |

35615
35614
35615

*Repeated from PPS

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
PPS - POWER/PYRO SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| *E-0018 | RFS/PPS STATUS WORD 1 | | T1A 00 | | 8 | F D | *PPS | RFS/P ST 1 |
| *E-0019 | RFS/PPS STATUS WORD 2 | | T1B 00 | | 8 | F D | *PPS | RFS/P ST 2 |
| E-0065 | PPS/MDS/CDS/ STATUS WORD 1 | | T1A 01 | LLM1A N1D43 1 | 8 | B D | PPS | P/M/C ST 1 |
| E-0066 | PPS/MDS/CDS STATUS WORD 2 | | T1B 01 | LLM1B N1D43 1 | 8 | B D | PPS | P/M/C ST 2 |
| E-0067 | PPS/DEV/PRB/UVS STATUS WORD | | T2A 01 | LLM2A N1D40 2 | 8 | V D | PPS | P/D/P ST 1 |
| E-0068 | PPS/DEV/PRB STATUS WORD | | T2B 01 | | 8 | V D | PPS | P/D/P ST 2 |
| E-0069 | +X RTG OUTPUT VOLTAGE | 0. to 35. VDC | T1A 4A | LLM1A N1D43 2 | 8 | F A | PPS | +X RTG V |
| E-0070 | -X RTG OUTPUT VOLTAGE | 0. to 35. VDC | T1B 27 | LLM1B N1D43 2 | 8 | F A | PPS | -X RTG V |
| E-0071 | PROBE POWER INTERFACE UNIT A MAIN BUS DC VOLTAGE | 0. to 40. VDC | T2A 15 | LLM2A N1D79 1 | 8 | F A | PPS | PPIU A MB |
| E-0072 | PROBE POWER INTERFACE UNIT A DCP BUS DC VOLTAGE | 0. to 40. DCV | T2A 2B | LLM2A N1D79 2 | 8 | F A | PPS | PPIU A DCP |
| E-0073 | -X RTG OUTPUT CURRENT | 0. to 10. ADC | T1A 3C | LLM1A N1D80 1 | 8 | F A | PPS | -X RTG I |
| E-0074 | PROBE POWER INTERFACE UNIT A CCD BUS DC VOLTAGE | 0. to 40. DCV | T2A 3C | LLM2A N1D42 1 | 8 | F A | PPS | PPIU A CCB |
| E-0075 | +X RTG OUTPUT CURRENT | 0. to 10. ADC | T1B 4A | LLM1B N1D80 1 | 8 | F A | PPS | +X RTG I |
| E-0076 | PROBE POWER INTERFACE UNIT B MAIN BUS DC VOLTAGE | 0. to 40. VDC | T2A 4D | LLM2A N1D42 2 | 8 | F A | PPS | PPIU B MB |
| E-0077 | PROBE POWER INTERFACE UNIT B DCP BUS DC VOLTAGE | 0. to 40. VDC | T2A 26 | LLM2A N1D83 1 | 8 | F A | PPS | PPIU B DCP |
| E-0078 | DC BUS VOLTAGE | 0. to 35. VDC | T1A 1D | LLM1A N1D06 1 | 8 | B A | PPS | DC BUS V |
| E-0079 | PROBE POWER INTERFACE UNIT B CCD BUS DC VOLTAGE | 0. to 40. DCV | T2A 37 | LLM2A N1D83 2 | 8 | F A | PPS | PPIU B CCB |
| E-0080<br>E-0080 | SHUNT REGULATOR INPUT CURRENT A (LF) | 0. to 10. ADC | T1A 18 | LLM1A S2S00<br>LLM1A S2S04 | 8 | B A | PPS<br>PPS | SH REG ILF |
| E-0081<br>E-0081 | SHUNT REGULATOR INPUT CURRENT B (HF) | 0. to 10. ADC | T1B 18 | LLM1B S2S01<br>LLM1B S2S05 | 8 | F A | PPS<br>PPS | SH REG IHF |
| E-0082<br>E-0082 | DC BUS CURRENT A | 0. to 15. ADC | T1A 23 | LLM1A S2S02<br>LLM1A S2S06 | 8 | F A | PPS<br>PPS | DC BUS I A |
| E-0083 | DC BUS CURRENT B | 0. to 15. ADC | T1B 23 | LLM1B S2S03 | 8 | B A | PPS | DC BUS I B |
| E-0086<br>E-0086 | 2.4 KHZ INVERTER OUTPUT CURRENT | 0. to 6. AAC | T1A 3E | LLM1A S1S05<br>LLM1A S1S06 | 8 | B A | PPS<br>PPS | INV OUT I |

*Repeated from RFS

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
PPS - POWER/PYRO SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0087<br>E-0087<br>E-0087 | 2.4 KHZ INVERTER INPUT CURRENT | 0. to 10. ADC | T1B 43 | LLM1B S1S05<br>LLM1B T1S02<br>LLM1B T1S12 | 8 | F A | PPS<br>PPS<br>PPS | INV IN I |
| E-0088 | 2.4 KHZ INVERTER OUTPUT VOLTAGE | 40. to 60. VAC | T1B 34 | LLM1B T1S04 | 8 | F A | PPS | INV OUT V |
| E-0089 | DISCHARGE CONTROLLER USE COUNTER | | L1A FF | LLM1A N1D06 2 | 8 | F S | PPS | DSCHG CNTL |
| E-0090 | PYRO BANK 1A VOLTAGE | 0. to 45. VDC | T1A 40 | | 8 | B A | PPS | PYRO 1A V |
| E-0091 | PYRO BANK 1B VOLTAGE | 0. to 45. VDC | T1B 40 | | 8 | B A | PPS | PYRO 1B V |
| E-0092 | PYRO BANK 2A VOLTAGE | 0. to 45. VDC | T2A 18 | LLM2A N1D46 1 | 8 | B A | PPS | PYRO 2A V |
| E-0093 | PYRO BANK 2B VOLTAGE | 0. to 45. VDC | T2A 27 | LLM2A N1D46 2 | 8 | B A | PPS | PYRO 2B V |
| E-0094 | DC BUS VOLTAGE IMBALANCE | 0. to 30. VDC | T1B 2B | LLM1B N1D27 1 | 8 | F A | PPS | DC BUS IMB |
| E-0095 | AC BUS VOLTAGE IMBALANCE | -25. to +25. VRMS | T1A 2B | LLM1A N1D27 1 | 8 | F A | PPS | AC BUS IMB |
| E-0096 | SHUNT REGULATOR TEMPERATURE | -78. to 100. Deg | T1A 7B | LLM1A N1D80 2 | 8 | F T | PPS | SH REG T |
| E-0097 | +X RTG CASE TEMPERATURE RTD 4 | -9. to 309. Deg | T1A 54 | | 8 | F T | PPS | +X RTG T4 |
| E-0098 | +X RTG CASE TEMPERATURE RTD 2 | -9. to 309. Deg | T1B 6D | LLM1B N1D27 2 | 8 | F T | PPS | +X RTG T2 |
| E-0099 | -X RTG CASE TEMPERATURE RTD 4 | -9. to 309. Deg | T1A 7D | LLM1A N1D27 2 | 8 | F T | PPS | -X RTG T4 |
| E-0100 | -X RTG CASE TEMPERATURE RTD 2 | -9. to 309. Deg | T1B 59 | LLM1B N1D80 2 | 8 | F T | PPS | -X RTG T2 |
| E-0101 | TLM Spare 6 | TBD VDC | T1B 19 | | 8 | F A | PPS | TLM SP 6 |
| E-0102 | TLM Spare 7 | TBD | T1B 1A | | 8 | F A | PPS | TLM SP 7 |
| E-0103 | TLM Spare 8 | TBD | T1B 1C | | 8 | F A | PPS | TLM SP 8 |
| E-0104 | TLM Spare 9 | TBD | T1B 1D | | 8 | F A | PPS | TLM SP 9 |
| E-0105 | TLM Spare 1 | TBD | T1A 1E | | 8 | F A | PPS | TLM SP 1 |
| E-0106 | TLM Spare 11 | TBD | T1B 22 | | 8 | F A | PPS | TLM SP 11 |
| E-0107 | TLM Spare 2 | TBD | T1A 21 | | 8 | F A | PPS | TLM SP 2 |
| E-0108 | TLM Spare 3 | TBD | T1A 22 | | 8 | F A | PPS | TLM SP 3 |
| E-0109 | TLM Spare 4 | TBD | T1A 26 | | 8 | F A | PPS | TLM SP 4 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
PPS - POWER/PYRO SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1500 | TLM Spare 10 | | T1B 26 | | 8 | F A | PPS | BDC V/T ST |
| E-1501 | TLM Spare 5 | | T1A 27 | | 8 | F A | PPS | BAT SAFE 1 |
| E-1505 | PDE 30VDC INHIBIT STATUS A | 0. to 3. VDC | T1A 29 | | 8 | F A | PPS | PDE 30 STA |
| E-1506 | TLM Spare 12 | TBD | T1B 1E | | 8 | F A | PPS | BAT SAFE 2 |
| E-1507 | PDE 30VDC INHIBIT STATUS B | 0. to 3. VDC | T1B 29 | | 8 | F A | PPS | PDE 30 STB |
| *E-1635 | PPS/DEV/SXA STATUS | | T1A 02 | | 8 | B D | *PPS | DEV/SXA ST |
| *E-1636 | PPS/DEV/SXA/DDS STATUS | | T1B 02 | LLM1B N1D23 2 | 8 | B D | *PPS | DEV/SXA ST |

*Repeated from DEV

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| *E-0065 | PPS/MDS/CDS STATUS WORD 1 | | T1A 01 | LLM1A N1D43 1 | 8 | B D | *CDS | |
| *E-0066 | PPS/MDS/CDS STATUS WORD 2 | | T1B 01 | LLM1B N1D43 1 | 8 | B D | *CDS | |
| E-0115 | HLM1A LAST BC RIM COUNT | | H1A 00 | | 24 | F S | CDS | HA BC-RIM |
| E-0116 | HLM1A LAST BC MOD91 | | H1A 00 | | 8 | F S | CDS | HA BC-M91 |
| E-0117 | HLM1A BC BUFFER ENTRY 1A | | H1A 00 | | 32 | F S | CDS | HA BC-1A |
| E-0118 | HLM1A BC BUFFER ENTRY 2A | | H1A 00 | | 32 | F S | CDS | HA BC-2A |
| E-0119 | HLM1A BC BUFFER ENTRY 3A | | H1A 00 | | 32 | F S | CDS | HA BC-3A |
| E-0120 | HLM1A BC BUFFER ENTRY 4A | | H1A 00 | | 32 | F S | CDS | HA BC-4A |
| E-0121 | HLM1A BC BUFFER ENTRY 5A | | H1A 00 | | 32 | F S | CDS | HA BC-5A |
| E-0122 | HLM1A BC BUFFER ENTRY 6A | | H1A 00 | | 32 | F S | CDS | HA BC-6A |
| E-0123 | HLM1A BC BUFFER ENTRY 7A | | H1A 00 | | 32 | F S | CDS | HA BC-7A |
| E-0124 | HLM1A BC BUFFER ENTRY 8A | | H1A 00 | | 32 | F S | CDS | HA BC-8A |
| E-0125 | HLM1A BC BUFFER ENTRY 9A | | H1A 00 | | 32 | F S | CDS | HA BC-9A |
| E-0126 | HLM1A BC BUFFER ENTRY 10A | | H1A 00 | | 32 | F S | CDS | HA BC-10A |
| E-0127 | HLM1A BC BUFFER ENTRY 11A | | H1A 00 | | 32 | F S | CDS | HA BC-11A |
| E-0128 | HLM1A BC BUFFER ENTRY 12A | | H1A 00 | | 32 | F S | CDS | HA BC-12A |
| E-0129 | HLM1A BC BUFFER ENTRY 13A | | H1A 00 | | 32 | F S | CDS | HA BC-13A |
| E-0130 | HLM1A BC BUFFER ENTRY 14A | | H1A 00 | | 32 | F S | CDS | HA BC-14A |
| E-0131 | HLM1A BC BUFFER ENTRY 15A | | H1A 00 | | 32 | F S | CDS | HA BC-15A |
| E-0132 | HLM1A BC BUFFER ENTRY 16A | | H1A 00 | | 32 | F S | CDS | HA BC-16A |
| E-0133 | HLM1A NOW-BUFFERED BC COUNTER | | H1A 00 | HLM1A N1F44 1 | 16 | F S | CDS | HA NB-BC-C |
| E-0133 | | | | HLM1A N1F51 1 | | | CDS | |
| E-0134 | HLM1A LAST UPLINK MESSAGE | | H1A 00 | HLM1A N1F47 1 | 16 | F S | CDS | HA LASTMSG |
| E-0134 | | | | HLM1A N1F54 1 | | | CDS | |
| E-0135 | HLM1A S/S FC COUNTER | | H1A 00 | | 16 | F S | CDS | HA S/S-FCS |

*Repeated from RFS

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0136<br>E-0136 | HLM1A S/S BC COUNTER | | H1A 00 | HLM1A N1F81 3<br>HLM1A N1F88 3 | 16 | F S | CDS<br>CDS | HA S/S-BCS |
| E-0137 | HLM1A F/P FC COUNTER | | H1A 00 | | 16 | F S | CDS | HA F/P-FCS |
| E-0138<br>E-0138 | HLM1A F/P BC COUNTER | | H1A 00 | HLM1A N1F81 1<br>HLM1A N1F88 1 | 16 | F S | CDS<br>CDS | HA F/P-BCS |
| E-0141 | HLM1A LLM BUS TRANSACTIONS RECEIVED | | H1A 00 | | 8 | F S | CDS | HA BT-RC-C |
| E-0142 | HLM1A DAC ERROR COUNTER | | H1A 00 | | 8 | F S | CDS | HA DACER-C |
| E-0143 | HLM1A MEM COPY/TWEAK ERROR COUNTER | | H1A 00 | | 8 | F S | CDS | HA MC/T-ER |
| E-0144<br>E-0144 | HLM1A BUM ERROR LIMITER | | H1A 00 | HLM1A N1F23 1<br>HLM1A N1F30 1 | 8 | F S | CDS<br>CDS | HA BMERLIM |
| E-0145 | HLM1A TO LLMS PRIVILEDGED FC COUNTER | | H1A 00 | | 8 | F S | CDS | HA LM-P-FC |
| E-0146 | HLM1A TO LLMS TOTAL FC COUNTER | | H1A 00 | | 8 | F S | CDS | HA LM-T-FC |
| E-0147 | HLM1A NON-PRIV CC/DC/POWER CODE COUNTER | | H1A 00 | | 8 | F S | CDS | HA N-CD/PC |
| E-0148 | HLM1A PRIV CC/DC/POWER CODE COUNTER | | H1A 00 | | 8 | F S | CDS | HA P-CD/PC |
| E-0149 | HLM1A GPV-28 (SPARE) | | H1A 00 | | 8 | F S | CDS | HA HGA PD1 |
| E-0150 | HLM1A GPV-29 (SPARE) | | H1A 00 | | 8 | F S | CDS | HA HGA PD2 |
| E-0151 | HLM1A GPV-30 (SPARE) | | H1A 00 | | 8 | F S | CDS | HA HGA PD3 |
| E-0152 | HLM1A GPV-31 (SPARE) | | H1A 00 | | 8 | F S | CDS | HA HGA PD4 |
| E-0153 | HLM1A DESPUN CRC REGISTERS 0-3 | | H1A 00 | HLM1A N1F77 1 | 32 | F S | CDS | HA CRCD0-3 |
| E-0154 | HLM1A DESPUN CRC REGISTERS 4-6 | | H1A 00 | HLM1A N1F40 1 | 24 | F S | CDS | HA CRCD4-6 |
| E-0155<br>E-0155 | HLM1A DESPUN CRC BANK A ERROR STATUS | | H1A 00 | HLM1A N1F23 2<br>HLM1A N1F30 2 | 8 | F S | CDS<br>CDS | HA DS CRCA |
| E-0156 | HLM1A SPUN CRC BANK A REGISTERS 0-3 | | H1A 00 | HLM1A N1F03 1 | 32 | F S | CDS | HA CRCA0-3 |
| E-0157 | HLM1A SPUN CRC BANK A REGISTERS 4-6 | | H1A 00 | HLM1A N1F57 1 | 24 | F S | CDS | HA CRCA4-6 |
| E-0158<br>E-0158 | HLM1A SPUN CRC BANK A ERROR STATUS | | H1A 00 | HLM1A N1F23 3<br>HLM1A N1F30 3 | 8 | F S | CDS<br>CDS | HA SP CRCA |
| E-0159 | HLM1A SPUN CRC BANK B REGISTERS 0-3 | | H1A 00 | HLM1A N1F20 1 | 32 | F S | CDS | HA CRCB0-3 |
| E-0160 | HLM1A SPUN CRC BANK B REGISTERS 4-7 | | H1A 00 | HLM1A N1F74 1 | 32 | F S | CDS | HA CRCB4-7 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0161 | HLM1A HCD COMMAND SUMMARY WORD | | H1A 00 | | 8 | F S | CDS | HA CMD-SMY |
| E-0162 | HLM1A MESSAGES RECEIVED AND ACCEPTED COUNTER | | H1A 00 | HLM1A N1S00 1 | 8 | F S | CDS | HA MSG-ACC |
| E-0162 | | | | HLM1A N1S07 1 | | | CDS | |
| E-0162 | | | | HLM1A N1S14 1 | | | CDS | |
| E-0162 | | | | HLM1A N1S21 1 | | | CDS | |
| E-0162 | | | | HLM1A N1S28 1 | | | CDS | |
| E-0162 | | | | HLM1A N1S35 1 | | | CDS | |
| E-0162 | | | | HLM1A N1S42 1 | | | CDS | |
| E-0162 | | | | HLM1A N1S49 1 | | | CDS | |
| E-0162 | | | | HLM1A N1S56 1 | | | CDS | |
| E-0162 | | | | HLM1A N1S63 1 | | | CDS | |
| E-0162 | | | | HLM1A N1S70 1 | | | CDS | |
| E-0162 | | | | HLM1A N1S77 1 | | | CDS | |
| E-0162 | | | | HLM1A N1S84 1 | | | CDS | |
| E-0163 | HLM1A MESSAGES RECEIVED AND REJECTED COUNTER | | H1A 00 | HLM1A N1S05 1 | 8 | F S | CDS | HA MSG-RJ |
| E-0163 | | | | HLM1A N1S12 1 | | | CDS | |
| E-0163 | | | | HLM1A N1S19 1 | | | CDS | |
| E-0163 | | | | HLM1A N1S26 1 | | | CDS | |
| E-0163 | | | | HLM1A N1S33 1 | | | CDS | |
| E-0163 | | | | HLM1A N1S40 1 | | | CDS | |
| E-0163 | | | | HLM1A N1S47 1 | | | CDS | |
| E-0163 | | | | HLM1A N1S54 1 | | | CDS | |
| E-0163 | | | | HLM1A N1S61 1 | | | CDS | |
| E-0163 | | | | HLM1A N1S68 1 | | | CDS | |
| E-0163 | | | | HLM1A N1S75 1 | | | CDS | |
| E-0163 | | | | HLM1A N1S82 1 | | | CDS | |
| E-0163 | | | | HLM1A N1S89 1 | | | CDS | |
| E-0164 | HLM1A COMMAND FRAME ERRORS DETECTED COUNTER | | H1A 00 | HLM1A N1F00 1 | 8 | F S | CDS | HA FRM-ER |
| E-0164 | | | | HLM1A N1F84 1 | | | CDS | |
| E-0165 | HLM1A DATA FRAME ERRORS CORRECTED COUNTER | | H1A 00 | HLM1A N1F00 2 | 8 | F S | CDS | HA FRM-COR |
| E-0165 | | | | HLM1A N1F84 2 | | | CDS | |
| E-0166 | HLM1A DATA FRAME ERRORS UNCORRECTABLE COUNTER | | H1A 00 | HLM1A N1F00 3 | 8 | F S | CDS | HA FRM-UNC |
| E-0166 | | | | HLM1A N1F84 3 | | | CDS | |
| E-0167 | HLM1A LOCK CHANGES COUNTER | | H1A 00 | HLM1A N1F00 4 | 8 | F S | CDS | HA LOCK-C |
| E-0167 | | | | HLM1A N1F84 4 | | | | |
| E-0168 | HLM1A SPUN CRC STATUS WORD | | H1A 00 | HLM1A N1F06 1 | 8 | F S | CDS | HA CRCS-ST |
| E-0168 | | | | HLM1A N1F13 1 | | | CDS | |
| E-0169 | HLM1A ERROR WORDS IOSL 0-1-2 | | H1A 00 | HLM1A N1F06 2 | 24 | F S | CDS | HA IOSL012 |
| E-0169 | | | | HLM1A N1F13 2 | | | CDS | |
| E-0170 | HLM1A CMD LOSS RESPONSE COUNTER | | H1A 00 | | 8 | F S | CDS | HA CMDLS-C |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0171<br>E-0171 | HLM1A BUM ERROR WORDS | | H1A 00 | HLM1A N1F60 1<br>HLM1A N1F67 1 | 32 | F S | CDS<br>CDS | HA BUM-ER |
| E-0172 | HLM1A DBUM ERROR WORDS (E-0505:E-0506 = E-0172) | | H1A 00 | | 16 | F S | CDS | HA DBUM-ER |
| E-0173 | HLM1A FLAG STATUS | | H1A 00 | | 8 | F S | CDS | HA FLAG-ST |
| E-0174<br>E-0174 | HLM1A EXTENDED BACKGROUND PROCESSING COUNTER | | H1A 00 | HLM1A N1F07 1<br>HLM1A N1F14 1 | 8 | F S | CDS<br>CDS | HA RTI-789 |
| E-0175 | HLM1A THIS CDS OF MODE | | H1A 00 | | 8 | F S | CDS | HA CDS-OP |
| E-0176<br>E-0176 | HLM1A THIS SAFE REQUEST FLAG | | H1A 00 | HLM1A N1F07 2<br>HLM1A N1F14 2 | 8 | F S | CDS<br>CDS | HA SAFE-RQ |
| E-0177<br>E-0177 | HLM1A THIS SAFE ENABLE | | H1A 00 | HLM1A N1F07 3<br>HLM1A N1F14 3 | 8 | F S | CDS<br>CDS | HA SAFE-EN |
| E-0178 | HLM1A THIS EFFECTUAL DOWN FLAG | | H1A 00 | | 8 | F S | CDS | HA EF-DOWN |
| E-0179<br>E-0179 | HLM1A GPV-131 (SPARE TO OTHER HLM) | | H1A 00 | HLM1A N1F07 4<br>HLM1A N1F14 4 | 8 | F S | CDS<br>CDS | HA CLK ERR |
| E-0180 | HLM1A GPV-132 (SPARE TO OTHER HLM) | | H1A 00 | | 8 | F S | CDS | HA GPV-132 |
| E-0181 | HLM1A GPV-133 (SPARE TO OTHER HLM) | | H1A 00 | | 8 | F S | CDS | HA GPV-133 |
| E-0182 | HLM1A THIS SIDE LAUNCH MODE READY | | H1A 00 | | 8 | F S | CDS | HA LAUNCH |
| E-0183<br>E-0183 | HLM1A OUT-OF-RANGE ALERT CODE COUNTER | | H1A 00 | HLM1A N1F58 1<br>HLM1A N1F65 1 | 8 | F S | CDS<br>CDS | HA AC-OUT |
| E-0184<br>E-0184 | HLM1A ERRONEOUS ALERT CODE COUNTER | | H1A 00 | HLM1A N1F58 2<br>HLM1A N1F65 2 | 8 | F S | CDS<br>CDS | HA AC-ERON |
| E-0185<br>E-0185 | HLM1A AACS ALERT CODE RECEIVED COUNTER | | H1A 00 | HLM1A N1F58 3<br>HLM1A N1F65 3 | 16 | F S | CDS<br>CDS | HA AC-RC-C |
| E-0186<br>E-0186 | HLM1A HEARTBEAT ENTRY COUNTER | | H1A 00 | HLM1A N1F04 2<br>HLM1A N1F11 2 | 8 | F S | CDS<br>CDS | HA H/B-RSP |
| E-0187<br>E-0187 | HLM1A HEARTBEAT ERROR COUNTER ACCUMULATED | | H1A 00 | HLM1A N1F04 3<br>HLM1A N1F11 3 | 8 | F S | CDS<br>CDS | HA H/B-ER |
| E-0188 | HLM1A LAST ALERT CODE | | H1A 00 | | 8 | F S | CDS | HA AC-LAST |
| E-0189<br>E-0189 | HLM1A AACS ALERT CODE RESPONSE COUNTER | | H1A 00 | HLM1A N1F21 1<br>HLM1A N1F28 1 | 8 | F S | CDS<br>CDS | HA AC-EX-C |
| E-0190<br>E-0190 | HLM1A COMMAND LOSS RESPONSE START TIME | | H1A 00 | HLM1A N1F21 2<br>HLM1A N1F28 2 | 24 | F S | CDS<br>CDS | HA CMDLS-T |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0191 | HLM1A AACS HEARTBEAT CODE | | H1A 00 | | 8 | F S | CDS | HA H/BCODE |
| E-0192 | HLM1A TF IMMINENT ALERT CODE COUNTER | | H1A 00 | | 8 | F S | CDS | HA TF-IMM |
| E-0193 | HLM1A TF ALL CLEAR ALERT CODE COUNTER | | H1A 00 | | 8 | F S | CDS | HA TF-ALCL |
| E-0194 | HLM1A TF ALL CLEAR COMPLETION COUNTER | | H1A 00 | | 8 | F S | CDS | HA TF-END |
| E-0195<br>E-0195 | HLM1A U/V RESPONSE COUNTER | | H1A 00 | HLM1A N1F04 4<br>HLM1A N1F11 4 | 8 | F S | CDS<br>CDS | HA UV-RSP |
| E-0196<br>E-0196 | HLM1A S/C F/P MONITOR ENABLE (PRIV) | | H1A 00 | HLM1A N1F61 1<br>HLM1A N1F68 1 | 8 | F S | CDS<br>CDS | HA P-MON-E |
| E-0197 | HLM1A U/V DIODE UNSHORT COUNTER | | H1A 00 | | 8 | F S | CDS | HA UV-DIO |
| E-0198 | HLM1A OVERPRESSURE TEMPERATURE FLAG | | H1A 00 | | 8 | F S | CDS | HA OVRPRES |
| E-0199 | HLM1A U/V TRIP/INVERTER SWITCH COUNTER | | H1A 00 | | 8 | F S | CDS | HA UV-INV |
| E-0200<br>E-0200 | HLM1A S/C F/P RESPONSE ENABLES (PRIV) | | H1A 00 | HLM1A N1F61 2<br>HLM1A N1F68 2 | 24 | F S | CDS<br>CDS | HA P-F/P-E |
| E-0201 | HLM1A CDS POR RESPONSE COUNTER | | H1A 00 | | 8 | F S | CDS | HA CDS-POR |
| E-0202<br>E-0202 | HLM1A F/P CONDITION (REQUESTS) ENABLES | | H1A 00 | HLM1A N1F24 1<br>HLM1A N1F31 1 | 24 | F S | CDS<br>CDS | HA C-F/P-E |
| E-0203<br>E-0203 | HLM1A RFLOSS RESPONSE COUNTER | | H1A 00 | HLM1A N1F24 4<br>HLM1A N1F31 4 | 8 | F S | CDS<br>CDS | HA RFLOSS |
| E-0204 | HLM1A F/P RESPONSE INACTIVE ENABLES (E-0507:E-0508:E-0509 = E-0204) | | H1A 00 | | 24 | F S | CDS | HA I-F/P-E |
| E-0205<br>E-0205 | HLM1A PRIME/BACKUP STATUS | | H1A 00 | HLM1A N1F23 4<br>HLM1A N1F30 4 | 8 | F S | CDS<br>CDS | HA PRM/BKU |
| E-0206<br>E-0206 | HLM1A MOS F/P RESPONSE ENABLES (MON-PRIV) | | H1A 00 | HLM1A N1F78 1<br>HLM1A N1F85 1 | 24 | F S | CDS<br>CDS | HA N-F/P-E |
| E-0207<br>E-0207 | HLM1A AACS STATUS | | H1A 00 | HLM1A N1F78 4<br>HLM1A N1F85 4 | 8 | F S | CDS<br>CDS | HA AACS-ST |
| E-0208<br>E-0208 | HLM1A MOS F/P MONITOR ENABLE (NON-PRIV) | | H1A 00 | HLM1A N1F41 1<br>HLM1A N1F48 1 | 8 | F S | CDS<br>CDS | HA N-MON-E |
| E-0209 | HLM1A MOS THRUSTER TEMPERATURE ENABLE (NON-PRIV) | | H1A 00 | | 8 | F S | CDS | HA N-THR-E |
| E-0210 | HLM1A CMD LOSS RESET DELTA RIMS | | H1A 00 | | 16 | F S | CDS | HA CMDLS-R |
| E-0211<br>E-0211 | HLM1A SYSTEM FAULT STATUS | | H1A 00 | HLM1A N1F41 3<br>HLM1A N1F48 3 | 16 | F S | CDS<br>CDS | HA SYS-ST |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0212 | HLM1A F/P MODE | | H1A 00 | | 8 | F S | CDS | HA F/PMODE |
| E-0213 | HLM1A F/P PATH CONTROL | | H1A 00 | HLM1A N1F41 2 | 8 | F S | CDS | HA PATHCTL |
| E-0213 | | | | HLM1A N1F48 2 | | | CDS | |
| E-0214 | HLM1A GV-92 (SPARE TO OTHER HLM) | | H1A 00 | HLM1A N1F44 3 | 8 | F S | CDS | HA GV-92 |
| E-0214 | | | | HLM1A N1F51 3 | | | CDS | |
| E-0215 | HLM1A GV-93 (SPARE TO OTHER HLM) | | H1A 00 | HLM1A N1F44 4 | 8 | F S | CDS | HA GV-93 |
| E-0215 | | | | HLM1A N1F51 4 | | | CDS | |
| E-0216 | HLM1A GV-94 (SPARE TO OTHER HLM) | | H1A 00 | | 8 | F S | CDS | HA GV-94 |
| E-0217 | HLM1A GV-95 (SPARE TO OTHER HLM) | | H1A 00 | | 8 | F S | CDS | HA GV-95 |
| E-0218 | HLM1A GV-96 (SPARE TO OTHER HLM) | | H1A 00 | | 8 | F S | CDS | HA GV-96 |
| E-0219 | HLM1A GV-97 (SPARE TO OTHER HLM) | | H1A 00 | | 8 | F S | CDS | HA GV-97 |
| E-0220 | HLM1A GV-98 (SPARE TO OTHER HLM) | | H1A 00 | | 8 | F S | CDS | HA GV-98 |
| E-0221 | HLM1A GV-99 (SPARE TO OTHER HLM) | | H1A 00 | | 8 | F S | CDS | HA PROBEGO |
| E-0222 | HLM1A SYS DIAGNOSTIC MSG QUEUE ENTRY 1 | | H1A 00 | HLM1A N1F75 1 | 16 | F S | CDS | HA SYSDIA1 |
| E-0222 | | | | HLM1A N1F82 1 | | | CDS | |
| E-0223 | HLM1A SYS DIAGNOSTIC MSG QUEUE ENTRY 2 | | H1A 00 | HLM1A N1F75 3 | 16 | F S | CDS | HA SYSDIA2 |
| E-0223 | | | | HLM1A N1F82 3 | | | CDS | |
| E-0224 | HLM1A SYS DIAGNOSTIC MSG QUEUE ENTRY 3 | | H1A 00 | HLM1A N1F38 1 | 16 | F S | CDS | HA SYSDIA3 |
| E-0224 | | | | HLM1A N1F45 1 | | | CDS | |
| E-0225 | HLM1A SYS DIAGNOSTIC MSG QUEUE ENTRY 4 | | H1A 00 | HLM1A N1F38 3 | 16 | F S | CDS | HA SYSDIA4 |
| E-0225 | | | | HLM1A N1F45 3 | | | CDS | |
| E-0226 | HLM1A SYS DIAGNOSTIC MSG QUEUE ENTRY 5 | | H1A 00 | HLM1A N1F01 1 | 16 | F S | CDS | HA SYSDIA5 |
| E-0226 | | | | HLM1A N1F08 1 | | | CDS | |
| E-0227 | HLM1A SYS DIAGNOSTIC MSG QUEUE ENTRY 6 | | H1A 00 | HLM1A N1F01 3 | 16 | F S | CDS | HA SYSDIA6 |
| E-0227 | | | | HLM1A N1F08 3 | | | CDS | |
| E-0228 | HLM1A SYS DIAGNOSTIC MSG QUEUE ENTRY 7 | | H1A 00 | HLM1A N1F55 1 | 16 | F S | CDS | HA SYSDIA7 |
| E-0228 | | | | HLM1A N1F62 1 | | | CDS | |
| E-0229 | HLM1A SYS DIAGNOSTIC MSG QUEUE ENTRY 8 | | H1A 00 | HLM1A N1F55 3 | 16 | F S | CDS | HA SYSDIA8 |
| E-0229 | | | | HLM1A N1F62 3 | | | CDS | |
| E-0230 | HLM1A CDS DIAGNOSTIC MSG QUEUE ENTRY 1 | | H1A 00 | HLM1A N1F18 1 | 16 | F S | CDS | HA CDSDIA1 |
| E-0230 | | | | HLM1A N1F25 1 | | | CDS | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0231<br>E-0231 | HLM1A CDS DIAGNOSTIC MSG QUEUE ENTRY 2 | | H1A 00 | HLM1A N1F18 3<br>HLM1A N1F25 3 | 16 | F S | CDS<br>CDS | HA CDSDIA2 |
| E-0232<br>E-0232 | HLM1A CDS DIAGNOSTIC MSG QUEUE ENTRY 3 | | H1A 00 | HLM1A N1F72 1<br>HLM1A N1F79 1 | 16 | F S | CDS<br>CDS | HA CDSDIA3 |
| E-0233<br>E-0233 | HLM1A CDS DIAGNOSTIC MSG QUEUE ENTRY 4 | | H1A 00 | HLM1A N1F72 3<br>HLM1A N1F79 3 | 16 | F S | CDS<br>CDS | HA CDSDIA4 |
| E-0234<br>E-0234 | HLM1A CDS DIAGNOSTIC MSG QUEUE ENTRY 5 | | H1A 00 | HLM1A N1F35 1<br>HLM1A N1F42 1 | 16 | F S | CDS<br>CDS | HA CDSDIA5 |
| E-0235<br>E-0235 | HLM1A CDS DIAGNOSTIC MSG QUEUE ENTRY 6 | | H1A 00 | HLM1A N1F35 3<br>HLM1A N1F42 3 | 16 | F S | CDS<br>CDS | HA CDSDIA6 |
| E-0236<br>E-0236 | HLM1A CDS DIAGNOSTIC MSG QUEUE ENTRY 7 | | H1A 00 | HLM1A N1F05 1<br>HLM1A N1F89 1 | 16 | F S | CDS<br>CDS | HA CDSDIA7 |
| E-0237<br>E-0237 | HLM1A CDS DIAGNOSTIC MSG QUEUE ENTRY 8 | | H1A 00 | HLM1A N1F05 3<br>HLM1A N1F89 3 | 16 | F S | CDS<br>CDS | HA CDSDIA8 |
| E-0238<br>E-0238 | HLM1A CAP/IAP PROGRAM STATE FILE | | H1A 00 | HLM1A N1F52 1<br>HLM1A N1F59 1 | 32 | F S | CDS<br>CDS | HA C/I-PSF |
| E-0239 | HLM1A F/P PROGRAM STATE FILE ENTRY 1 | | H1A 00 | | 32 | F S | CDS | HA F/P-1 |
| E-0240<br>E-0240 | HLM1A F/P PROGRAM STATE FILE ENTRY 2 | | H1A 00 | HLM1A N1F15 1<br>HLM1A N1F22 1 | 32 | F S | CDS<br>CDS | HA F/P-2 |
| E-0241<br>E-0241 | HLM1A F/P PROGRAM STATE FILE ENTRY 3 | | H1A 00 | HLM1A N1F69 1<br>HLM1A N1F76 1 | 32 | F S | CDS<br>CDS | HA F/P-3 |
| E-0242<br>E-0242 | HLM1A F/P PROGRAM STATE FILE ENTRY 4 | | H1A 00 | HLM1A N1F32 1<br>HLM1A N1F39 1 | 32 | F S | CDS<br>CDS | HA F/P-4 |
| E-0243<br>E-0243 | HLM1A F/P PROGRAM STATE FILE ENTRY 5 | | H1A 00 | HLM1A N1F02 1<br>HLM1A N1F86 1 | 32 | F S | CDS<br>CDS | HA F/P-5 |
| E-0244 | HLM1A F/P PROGRAM STATE FILE ENTRY 6 | | H1A 00 | | 32 | F S | CDS | HA F/P-6 |
| E-0245 | HLM1A F/P PROGRAM STATE FILE ENTRY 7 | | H1A 00 | | 32 | F S | CDS | HA F/P-7 |
| E-0246 | HLM1A F/P PROGRAM STATE FILE ENTRY 8 | | H1A 00 | | 32 | F S | CDS | HA F/P-8 |
| E-0247 | HLM1A F/P PROGRAM STATE FILE ENTRY 9 | | H1A 00 | | 32 | F S | CDS | HA F/P-9 |
| E-0248 | HLM1A F/P PROGRAM STATE FILE ENTRY 10 | | H1A 00 | | 32 | F S | CDS | HA F/P-10 |
| E-0249<br>E-0249 | HLM1A S/S PROGRAM STATE FILE ENTRY 1 | | H1A 00 | HLM1A N1F12 1<br>HLM1A N1F19 1 | 32 | F S | CDS<br>CDS | HA S/S-1 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0250<br>E-0250 | HLM1A S/S PROGRAM STATE FILE ENTRY 2 | | H1A 00 | HLM1A N1F66 1<br>HLM1A N1F73 1 | 32 | F S | CDS<br>CDS | HA S/S-2 |
| E-0251<br>E-0251 | HLM1A S/S PROGRAM STATE FILE ENTRY 3 | | H1A 00 | HLM1A N1F29 1<br>HLM1A N1F36 1 | 32 | F S | CDS<br>CDS | HA S/S-3 |
| E-0252<br>E-0252 | HLM1A S/S PROGRAM STATE FILE ENTRY 4 | | H1A 00 | HLM1A N1F83 1<br>HLM1A N1F90 1 | 32 | F S | CDS<br>CDS | HA S/S-4 |
| E-0253<br>E-0253 | HLM1A S/S PROGRAM STATE FILE ENTRY 5 | | H1A 00 | HLM1A N1F46 1<br>HLM1A N1F53 1 | 32 | F S | CDS<br>CDS | HA S/S-5 |
| E-0254<br>E-0254 | HLM1A S/S PROGRAM STATE FILE ENTRY 6 | | H1A 00 | HLM1A N1F09 1<br>HLM1A N1F16 1 | 32 | F S | CDS<br>CDS | HA S/S-6 |
| E-0255<br>E-0255 | HLM1A S/S PROGRAM STATE FILE ENTRY 7 | | H1A 00 | HLM1A N1F63 1<br>HLM1A N1F70 1 | 32 | F S | CDS<br>CDS | HA S/S-7 |
| E-0256<br>E-0256 | HLM1A S/S PROGRAM STATE FILE ENTRY 8 | | H1A 00 | HLM1A N1F26 1<br>HLM1A N1F33 1 | 32 | F S | CDS<br>CDS | HA S/S-8 |
| E-0257<br>E-0257 | HLM1A S/S PROGRAM STATE FILE ENTRY 9 | | H1A 00 | HLM1A N1F80 1<br>HLM1A N1F87 1 | 32 | F S | CDS<br>CDS | HA S/S-9 |
| E-0258<br>E-0258 | HLM1A S/S PROGRAM STATE FILE ENTRY 10 | | H1A 00 | HLM1A N1F43 1<br>HLM1A N1F50 1 | 32 | F S | CDS<br>CDS | HA S/S-10 |
| E-0259 | HLM1A S/S PROGRAM STATE FILE ENTRY 11 | | H1A 00 | | 32 | F S | CDS | HA S/S-11 |
| E-0260 | HLM1A S/S PROGRAM STATE FILE ENTRY 12 | | H1A 00 | | 32 | F S | CDS | HA S/S-12 |
| E-0261 | HLM1A S/S PROGRAM STATE FILE ENTRY 13 | | H1A 00 | | 32 | F S | CDS | HA S/S-13 |
| E-0262 | HLM1A S/S PROGRAM STATE FILE ENTRY 14 | | H1A 00 | | 32 | F S | CDS | HA S/S-14 |
| E-0263 | HLM1A S/S PROGRAM STATE FILE ENTRY 15 | | H1A 00 | | 32 | F S | CDS | HA S/S-15 |
| E-0264 | HLM1A S/S PROGRAM STATE FILE ENTRY 16 | | H1A 00 | | 32 | F S | CDS | HA S/S-16 |
| E-0265 | HLM1A S/S PROGRAM STATE FILE ENTRY 17 | | H1A 00 | | 32 | F S | CDS | HA S/S-17 |
| E-0266 | HLM1A S/S PROGRAM STATE FILE ENTRY 18 | | H1A 00 | | 32 | F S | CDS | HA S/S-18 |
| E-0267 | HLM1A S/S PROGRAM STATE FILE ENTRY 19 | | H1A 00 | | 32 | F S | CDS | HA S/S-19 |
| E-0268 | HLM1A S/S PROGRAM STATE FILE ENTRY 20 | | H1A 00 | | 32 | F S | CDS | HA S/S-20 |
| E-0269 | HLM1A S/S PROGRAM STATE FILE ENTRY 21 | | H1A 00 | | 32 | F S | CDS | HA S/S-21 |
| E-0270 | HLM1A S/S PROGRAM STATE FILE ENTRY 22 | | H1A 00 | | 32 | F S | CDS | HA S/S-22 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0271 | HLM1A S/S PROGRAM STATE FILE ENTRY 23 | | H1A 00 | | 32 | F S | CDS | HA S/S-23 |
| E-0272 | HLM1A BUFFER BC COUNTER | | H1A 00 | | 8 | F S | CDS | HA BUF-BCS |
| E-0273 | HLM1A BC BUFFER ENTRY 1B | | H1A 00 | | 8 | F S | CDS | HA BC-1B |
| E-0274 | HLM1A BC BUFFER ENTRY 2B | | H1A 00 | | 8 | F S | CDS | HA BC-2B |
| E-0275 | HLM1A BC BUFFER ENTRY 3B | | H1A 00 | | 8 | F S | CDS | HA BC-3B |
| E-0276 | HLM1A BC BUFFER ENTRY 4B | | H1A 00 | | 8 | F S | CDS | HA BC-4B |
| E-0277 | HLM1A BC BUFFER ENTRY 5B | | H1A 00 | | 8 | F S | CDS | HA BC-5B |
| E-0278 | HLM1A BC BUFFER ENTRY 6B | | H1A 00 | | 8 | F S | CDS | HA BC-6B |
| E-0279 | HLM1A BC BUFFER ENTRY 7B | | H1A 00 | | 8 | F S | CDS | HA BC-7B |
| E-0280 | HLM1A BC BUFFER ENTRY 8B | | H1A 00 | | 8 | F S | CDS | HA BC-8B |
| E-0281 | HLM1A BC BUFFER ENTRY 9B | | H1A 00 | | 8 | F S | CDS | HA BC-9B |
| E-0282 | HLM1A BC BUFFER ENTRY 10B | | H1A 00 | | 8 | F S | CDS | HA BC-10B |
| E-0283 | HLM1A BC BUFFER ENTRY 11B | | H1A 00 | | 8 | F S | CDS | HA BC-11B |
| E-0284 | HLM1A BC BUFFER ENTRY 12B | | H1A 00 | | 8 | F S | CDS | HA BC-12B |
| E-0285 | HLM1A BC BUFFER ENTRY 13B | | H1A 00 | | 8 | F S | CDS | HA BC-13B |
| E-0286 | HLM1A BC BUFFER ENTRY 14B | | H1A 00 | | 8 | F S | CDS | HA BC-14B |
| E-0287 | HLM1A BC BUFFER ENTRY 15B | | H1A 00 | | 8 | F S | CDS | HA BC-15B |
| E-0288 | HLM1A BC BUFFER ENTRY 16B | | H1A 00 | | 8 | F S | CDS | HA BC-16B |
| E-0289<br>E-0289 | HLM1A CAP FC COUNTER | | H1A 00 | HLM1A N1F27 3<br>HLM1A N1F34 3 | 8 | F S | CDS<br>CDS | HA CAP-FCS |
| E-0290 | HLM1A CAP BC COUNTER | | H1A 00 | | 8 | F S | CDS | HA CAP-BCS |
| E-0291<br>E-0291 | HLM1A IAP FC COUNTER | | H1A 00 | HLM1A N1F27 4<br>HLM1A N1F34 4 | 8 | F S | CDS<br>CDS | HA IAP-FCS |
| E-0292 | HLM1A IAP BC COUNTER | | H1A 00 | | 8 | F S | CDS | HA IAP-BCS |
| E-0293<br>E-0293 | HLM1A SFP PROTECTED PATH CONTROL | | H1A 00 | HLM1A N1F04 1<br>HLM1A N1F11 1 | 8 | F S | CDS<br>CDS | HA FP PPTH |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0294 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-225 |
| E-0295 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-235 |
| E-0296 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-245 |
| E-0297<br>E-0297 | HLM1A UPLINK IAP COUNTER | | H1A 00 | HLM1A N1F47 3<br>HLM1A N1F54 3 | 8 | F S | CDS<br>CDS | HA U-IAP-C |
| E-0298<br>E-0298 | HLM1A UPLINK DAC COUNTER | | H1A 00 | HLM1A N1F47 4<br>HLM1A N1F54 4 | 8 | F S | CDS<br>CDS | HA U-DAC-C |
| E-0299<br>E-0299 | HLM1A UPLINK NML COUNTER | | H1A 00 | HLM1A N1F10 1<br>HLM1A N1F17 1 | 8 | F S | CDS<br>CDS | HA U-NML-C |
| E-0300<br>E-0300 | HLM1A UPLINK IEX COUNTER | | H1A 00 | HLM1A N1F10 2<br>HLM1A N1F17 2 | 8 | F S | CDS<br>CDS | HA U-IEX-C |
| E-0301<br>E-0301 | HLM1A UPLINK MSD(P) COUNTER | | H1A 00 | HLM1A N1F10 3<br>HLM1A N1F17 3 | 8 | F S | CDS<br>CDS | HA U-MSD-P |
| E-0302<br>E-0302 | HLM1A UPLINK MSD(T) COUNTER | | H1A 00 | HLM1A N1F10 4<br>HLM1A N1F17 4 | 8 | F S | CDS<br>CDS | HA U-MSD-T |
| E-0303<br>E-0303 | HLM1A UPLINK NMSL COUNTER | | H1A 00 | HLM1A N1F64 1<br>HLM1A N1F71 1 | 8 | F S | CDS<br>CDS | HA U-NMSL |
| E-0304<br>E-0304 | HLM1A UPLINK PMSL COUNTER | | H1A 00 | HLM1A N1F64 2<br>HLM1A N1F71 2 | 8 | F S | CDS<br>CDS | HA U-PMSL |
| E-0305<br>E-0305 | HLM1A UPLINK CAP COUNTER | | H1A 00 | HLM1A N1F64 3<br>HLM1A N1F71 3 | 8 | F S | CDS<br>CDS | HA U-CAP-C |
| E-0306<br>E-0306 | HLM1A UPLINK NML/NMSL ERROR COUNTER | | H1A 00 | HLM1A N1F64 4<br>HLM1A N1F71 4 | 8 | F S | CDS<br>CDS | HA U-N-ER |
| E-0307<br>E-0307 | HLM1A UPLINK MSL ERROR COUNTER | | H1A 00 | HLM1A N1F27 1<br>HLM1A N1F34 1 | 8 | F S | CDS<br>CDS | HA U-MS-ER |
| E-0308 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-365 |
| E-0309 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-375 |
| E-0310 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-385 |
| E-0311 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-395 |
| E-0312 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-405 |
| E-0313 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-415 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0314 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-425 |
| E-0315 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-435 |
| E-0316 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-445 |
| E-0317 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-455 |
| E-0318 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-465 |
| E-0319 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-475 |
| E-0320 | HLM1A SPARE | | H1A 00 | | 8 | F S | CDS | HA SPR-485 |
| E-0321 | HLM1A SYSTEM DIAGNOSTIC MESSAGE COUNTER | | H1A 00 | HLM1A N1S03 1 | 8 | F S | CDS | HA SDIAG-C |
| E-0321 | | | | HLM1A N1S10 1 | | | CDS | |
| E-0321 | | | | HLM1A N1S17 1 | | | CDS | |
| E-0321 | | | | HLM1A N1S24 1 | | | CDS | |
| E-0321 | | | | HLM1A N1S31 1 | | | CDS | |
| E-0321 | | | | HLM1A N1S38 1 | | | CDS | |
| E-0321 | | | | HLM1A N1S45 1 | | | CDS | |
| E-0321 | | | | HLM1A N1S52 1 | | | CDS | |
| E-0321 | | | | HLM1A N1S59 1 | | | CDS | |
| E-0321 | | | | HLM1A N1S66 1 | | | CDS | |
| E-0321 | | | | HLM1A N1S73 1 | | | CDS | |
| E-0321 | | | | HLM1A N1S80 1 | | | CDS | |
| E-0321 | | | | HLM1A N1S87 1 | | | CDS | |
| E-0322 | HLM1A CDS DIAGNOSTIC MESSAGE COUNTER | | H1A 00 | HLM1A N1S01 1 | 8 | F S | CDS | HA CDIAG-C |
| E-0322 | | | | HLM1A N1S08 1 | | | CDS | |
| E-0322 | | | | HLM1A N1S15 1 | | | CDS | |
| E-0322 | | | | HLM1A N1S22 1 | | | CDS | |
| E-0322 | | | | HLM1A N1S29 1 | | | CDS | |
| E-0322 | | | | HLM1A N1S36 1 | | | CDS | |
| E-0322 | | | | HLM1A N1S43 1 | | | CDS | |
| E-0322 | | | | HLM1A N1S50 1 | | | CDS | |
| E-0322 | | | | HLM1A N1S57 1 | | | CDS | |
| E-0322 | | | | HLM1A N1S64 1 | | | CDS | |
| E-0322 | | | | HLM1A N1S71 1 | | | CDS | |
| E-0322 | | | | HLM1A N1S78 1 | | | CDS | |
| E-0322 | | | | HLM1A N1S85 1 | | | CDS | |
| E-0323 | HLM1A MARK FC COUNTER | | H1A 00 | | 8 | F S | CDS | HA MARK-FC |
| E-0324 | HLM1A S/C THRUSTER TEMPERATURE ENABLE (PRIV) | | H1A 00 | | 8 | F S | CDS | HA P-THR-E |
| E-0325 | HLM1A CAP START LINK | | H1A 00 | | 8 | F S | CDS | HA CAP-LNK |
| E-0326 | HLM1A F/P START LINK | | H1A 00 | | 8 | F S | CDS | HA F/P-LNK |
| E-0327 | HLM1A IAP START LINK | | H1A 00 | | 8 | F S | CDS | HA IAP-LNK |

Table A2.2.8. Engineerng Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0328 | HLM1A S/S START LINK | | H1A 00 | | 8 | F S | CDS | HA S/S-LNK |
| E-0329 | HLM1A UPLINK NMSL/PMSL SEQUENCE NUMBER | | H1A 00 | HLM1A N1F27 2 | 8 | F S | CDS | HA U-SEQNO |
| E-0329 | | | | HLM1A N1F34 2 | | | CDS | |
| E-0330 | SEQUENCE COMPLETE | | | | 8 | F S | CDS | SEQ COMPLT |
| E-0331 | HLM1A MISSING MESSAGE LIST 1 | | H1A 00 | | 8 | F S | CDS | HA MSGL-1 |
| E-0332 | HLM1A MISSING MESSAGE LIST 2 | | H1A 00 | | 8 | F S | CDS | HA MSGL-2 |
| E-0333 | HLM1A MISSING MESSAGE LIST 3 | | H1A 00 | | 8 | F S | CDS | HA MSGL-3 |
| E-0334 | HLM1A MISSING MESSAGE LIST 4 | | H1A 00 | | 8 | F S | CDS | HA MSGL-4 |
| E-0335 | HLM1A MISSING MESSAGE LIST 5 | | H1A 00 | | 8 | F S | CDS | HA MSGL-5 |
| E-0336 | HLM1A MISSING MESSAGE LIST 6 | | H1A 00 | | 8 | F S | CDS | HA MSGL-6 |
| E-0337 | HLM1A MISSING MESSAGE LIST 7 | | H1A 00 | | 8 | F S | CDS | HA MSGL-7 |
| E-0338 | HLM1A MISSING MESSAGE LIST 8 | | H1A 00 | | 8 | F S | CDS | HA MSGL-8 |
| E-0339 | HLM1A MISSING MESSAGE LIST 9 | | H1A 00 | | 8 | F S | CDS | HA MSGL-9 |
| E-0340 | HLM1A MISSING MESSAGE LIST 10 | | H1A 00 | | 8 | F S | CDS | HA MSGL-10 |
| E-0341 | HLM1A MISSING MESSAGE LIST 11 | | H1A 00 | | 8 | F S | CDS | HA MSGL-11 |
| E-0342 | HLM1A MISSING MESSAGE LIST 12 | | H1A 00 | | 8 | F S | CDS | HA MSGL-12 |
| E-0343 | HLM1A MISSING MESSAGE LIST 13 | | H1A 00 | | 8 | F S | CDS | HA MSGL-13 |
| E-0344 | HLM1A MISSING MESSAGE LIST 14 | | H1A 00 | | 8 | F S | CDS | HA MSGL-14 |
| E-0345 | HLM1A MISSING MESSAGE LIST 15 | | H1A 00 | | 8 | F S | CDS | HA MSGL-15 |
| E-0346 | HLM1A MISSING MESSAGE LIST 16 | | H1A 00 | | 8 | F S | CDS | HA MSGL-16 |
| E-0347 | HLM1A MISSING MESSAGE LIST 17 | | H1A 00 | | 8 | F S | CDS | HA MSGL-17 |
| E-0348 | HLM1A MISSING MESSAGE LIST 18 | | H1A 00 | | 8 | F S | CDS | HA MSGL-18 |
| E-0349 | HLM1A MISSING MESSAGE LIST 19 | | H1A 00 | | 8 | F S | CDS | HA MSGL-19 |
| E-0350 | HLM1A MISSING MESSAGE LIST 20 | | H1A 00 | | 8 | F S | CDS | HA MSGL-20 |
| E-0351 | HLM1A MISSING MESSAGE LIST 21 | | H1A 00 | | 8 | F S | CDS | HA MSGL-21 |
| E-0352 | HLM1A MISSING MESSAGE LIST 22 | | H1A 00 | | 8 | F S | CDS | HA MSGL-22 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0353 | HLM1A MISSING MESSAGE LIST 23 | | H1A 00 | | 8 | F S | CDS | HA MSGL-23 |
| E-0354 | HLM1A MISSING MESSAGE LIST 24 | | H1A 00 | | 8 | F S | CDS | HA MSGL-24 |
| E-0355 | HLM1A MISSING MESSAGE LIST 25 | | H1A 00 | | 8 | F S | CDS | HA MSGL-25 |
| E-0356 | HLM1A MISSING MESSAGE LIST 26 | | H1A 00 | | 8 | F S | CDS | HA MSGL-26 |
| E-0357 | HLM1A MISSING MESSAGE LIST 27 | | H1A 00 | | 8 | F S | CDS | HA MSGL-27 |
| E-0358 | HLM1A MISSING MESSAGE LIST 28 | | H1A 00 | | 8 | F S | CDS | HA MSGL-28 |
| E-0359 | HLM1A MISSING MESSAGE LIST 29 | | H1A 00 | | 8 | F S | CDS | HA MSGL-29 |
| E-0360 | HLM1A MISSING MESSAGE LIST 30 | | H1A 00 | | 8 | F S | CDS | HA MSGL-30 |
| E-0361 | HLM1A MISSING MESSAGE LIST 31 | | H1A 00 | | 8 | F S | CDS | HA MSGL-31 |
| E-0362 | HLM1A MISSING MESSAGE LIST 32 | | H1A 00 | | 8 | F S | CDS | HA MSGL-32 |
| E-0365 | LLM1A DMS FCS EXECUTED COUNTER | | L1A 94 | LLM1A N1D70 1 | 8 | F S | CDS | LA DMSFCEX |
| E-0366 | LLM1A DMS FCS REJECTED COUNTER | | L1A 95 | LLM1A N1D70 2 | 8 | F S | CDS | LA DMSFCRJ |
| E-0367 | LLM1A DMS CMDS SENT COUNTER | | L1A 96 | | 8 | F S | CDS | LA DMSSENT |
| E-0368 | LLM1A LAST DMS COMMAND SENT | | L1A 97 | | 8 | F S | CDS | LA DMSLAST |
| E-0369<br>E-0369 | LLM1A EPD/PLS ENABLE STATUS | | L1A 98 | LLM1A N1D62 2<br>LLM1A N1D72 2 | 8 | F S | CDS<br>CDS | LA SCI-EN |
| E-0370 | LLM1A LAST CC/DC RIM COUNT MSB/ISB | | L1A 80:81 | LLM1A N1D79 1 | 16 | F S | CDS | LA CD-RIM1 |
| E-0371 | LLM1A LAST CC/DC RIM COUNT LSB | | L1A 82 | LLM1A N1D42 1 | 8 | F S | CDS | LA CD-RIM2 |
| E-0372 | LLM1A LAST CC/DC MOD91 | | L1A 83 | LLM1A N1D42 2 | 8 | F S | CDS | LA CD-M91 |
| E-0373 | LLM1A LAST CC/DC MOD10 | | L1A 84 | LLM1A N1D05 1 | 8 | F S | CDS | LA CD-M10 |
| E-0374 | LLM1A LAST CC/DC POINTER | | L1A 85 | LLM1A N1D05 2 | 8 | F S | CDS | CD-PNTR |
| E-0375 | LLM1A CC/DC BUFFER ENTRY 1 | | L1A 86:87 | LLM1A N1D59 1 | 16 | F S | CDS | LA CD-1 |
| E-0376 | LLM1A CC/DC BUFFER ENTRY 2 | | L1A 88:89 | LLM1A N1D22 1 | 16 | F S | CDS | LA CD-2 |
| E-0377 | LLM1A CC/DC BUFFER ENTRY 3 | | L1A 8A:8B | LLM1A N1D76 1 | 16 | F S | CDS | LA CD-3 |
| E-0378 | LLM1A CC/DC BUFFER ENTRY 4 | | L1A 8C:8D | LLM1A N1D39 1 | 16 | F S | CDS | LA CD-4 |
| E-0379 | LLM1A CC/DC BUFFER ENTRY 5 | | L1A 8E:8F | LLM1A N1D02 1 | 16 | F S | CDS | LA CD-5 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0380 | LLM1A CC/DC BUFFER ENTRY 6 | | L1A 90:91 | LLM1A N1D56 1 | 16 | F S | CDS | LA CD-6 |
| E-0381 | LLM1A CC/DC BUFFER ENTRY 7 | | L1A 92:93 | LLM1A N1D19 1 | 16 | F S | CDS | LA CD-7 |
| E-0382<br>E-0382 | LLM1A PRIV CC/DC EXECUTED COUNTER | | L1A 9E | LLM1A N1D28 1<br>LLM1A N1D38 1 | 8 | F S | CDS<br>CDS | LA CD-P-EX |
| E-0383<br>E-0383 | LLM1A MON-PRIV CC/DC EXECUTED COUNTER | | L1A 9F | LLM1A N1D28 2<br>LLM1A N1D38 2 | 8 | F S | CDS<br>CDS | LA CD-N-EX |
| E-0384<br>E-0384 | LLM1A PRIV CC/DC/(POWER CODE) QUEUED COUNTER | | L1A A0 | LLM1A N1D01 1<br>LLM1A N1D82 1 | 8 | F S | CDS<br>CDS | LA CD-P-Q |
| E-0385<br>E-0385 | LLM1A MON-PRIV CC/DC/(POWER CODE) QUEUED COUNTER | | L1A A1 | LLM1A N1D01 2<br>LLM1A N1D82 2 | 8 | F S | CDS<br>CDS | LA CD-N-Q |
| E-0386<br>E-0386 | LLM1A TEMPERATURE CC/DC QUEUED COUNTER | | L1A A2 | LLM1A N1D45 1<br>LLM1A N1D55 1 | 8 | F S | CDS<br>CDS | LA CD-T-Q |
| E-0387<br>E-0387 | LLM1A DAC CC/DC QUEUED COUNTER | | L1A A3 | LLM1A N1D45 2<br>LLM1A N1D55 2 | 8 | F S | CDS<br>CDS | LA CD-DACQ |
| E-0388<br>E-0388 | LLM1A AACS POWER CODES EXECUTED COUNTER | | L1A A4 | LLM1A N1D08 1<br>LLM1A N1D18 1 | 8 | F S | CDS<br>CDS | LA PC-E-C |
| E-0389<br>E-0389 | LLM1A AACS POWER CODES REJECTED COUNTER | | L1A A5 | LLM1A N1D08 2<br>LLM1A N1D18 2 | 8 | F S | CDS<br>CDS | LA PC-RJ-C |
| E-0390<br>E-0390 | LLM1A EPF/PLS CC/DC'S QUEUED COUNTER | | L1A A6 | LLM1A N1D62 1<br>LLM1A N1D72 1 | 8 | F S | CDS<br>CDS | LA CD-SCIQ |
| E-0391 | LLM1A LAST VALID AACS POWER CODE | | L1A A7 | | 8 | F S | CDS | LA PC-LAST |
| E-0392 | LLM1A FC'S RECEIVED COUNTER | | L1A A8 | | 8 | F S | CDS | LA FC-RC-C |
| E-0393<br>E-0393 | LLM1A FC'S EXECUTED COUNTER | | L1A A9 | LLM1A N1D25 1<br>LLM1A N1D35 1 | 8 | F S | CDS<br>CDS | LA FC-EX-C |
| E-0394 | LLM1A LAST VALID FC ID | | L1A AA | | 8 | F S | CDS | LA FC-LAST |
| E-0395<br>E-0395 | LLM1A FC'S REJECTED COUNTER | | L1A AB | LLM1A N1D25 2<br>LLM1A N1D35 2 | 8 | F S | CDS<br>CDS | LA FC-RJ-C |
| E-0396 | LLM1A CHANGE PACKET SELECTION COUNTER | | L1A AC | LLM1A N1D29 1 | 8 | F S | CDS | LA PKT-SEL |
| E-0397 | LLM1A BUS TRANSACTIONS SENT COUNTER | | L1A AD | | 8 | F S | CDS | LA BT-SENT |
| E-0398 | LLM1A CHANGE PACKET TIMING COUNTER | | L1A AE | LLM1A N1D66 1 | 8 | F S | CDS | LA PKT-TMG |
| E-0399 | LLM1A UPDATE PACKET MENU COUNTER | | L1A AF | LLM1A N1D66 2 | 8 | F S | CDS | LA MENU |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0400 | LLM1A AACS POWER CODES RECEIVED COUNTER | | L1A B0:B1 | LLM1A N1D83 1 | 16 | F S | CDS | LA PC-RC-C |
| E-0401 | LLM1A FLAG STATUS | | L1A B6 | | 8 | F S | CDS | LA FLAG-ST |
| E-0402<br>E-0402 | LLM1A CDS DIAGNOSTIC MESSAGE COUNTER | | L1A B7 | LLM1A N1D31 1<br>LLM1A N1D41 1 | 8 | F S | CDS<br>CDS | LA CDIAG-C |
| E-0403 | LLM1A CDS DIAGNOSTIC MSG QUEUE ENTRY 1 | | L1A B8:B9 | | 16 | F S | CDS | LA CDSDIA1 |
| E-0404 | LLM1A CDS DIAGNOSTIC MSG QUEUE ENTRY 2 | | L1A BA:BB | | 16 | F S | CDS | LA CDSDIA2 |
| E-0405 | LLM1A CDS DIAGNOSTIC MSG QUEUE ENTRY 3 | | L1A BC:BD | | 16 | F S | CDS | LA CDSDIA3 |
| E-0406 | LLM1A CDS DIAGNOSTIC MSG QUEUE ENTRY 4 | | L1A BE:BF | | 16 | F S | CDS | LA CDSDIA4 |
| E-0407 | LLM1A SPARE | | L1A C0 | | 8 | F S | CDS | LA SPR-731 |
| E-0408<br>E-0408 | LLM1A SYS DIAGNOSTIC MESSAGE COUNTER | | L1A C1 | LLM1A N1D31 2<br>LLM1A N1D41 2 | 8 | F S | CDS<br>CDS | LA SDIAG-C |
| E-0409 | LLM1A SYS DIAGNOSTIC MSG QUEUE ENTRY 1 | | L1A C2:C3 | | 16 | F S | CDS | LA SYSDIA1 |
| E-0410 | LLM1A SYS DIAGNOSTIC MSG QUEUE ENTRY 2 | | L1A C4:C5 | | 16 | F S | CDS | LA SYSDIA2 |
| E-0411 | LLM1A SYS DIAGNOSTIC MSG QUEUE ENTRY 3 | | L1A C6:C7 | | 16 | F S | CDS | LA SYSDIA3 |
| E-0412 | LLM1A SYS DIAGNOSTIC MSG QUEUE ENTRY 4 | | L1A C8:C9 | | 16 | F S | CDS | LA SYSDIA4 |
| E-0413<br>E-0413 | LLM1A ERROR WORD-1 IOSL-0 | | L1A CE | LLM1A N1D04 1<br>LLM1A N1D85 1 | 8 | F S | CDS<br>CDS | LA IOSL-0 |
| E-0414<br>E-0414 | LLM1A ERROR WORD-2 IOSL-1 | | L1A CF | LLM1A N1D04 2<br>LLM1A N1D85 2 | 8 | F S | CDS<br>CDS | LA IOSL-1 |
| E-0415<br>E-0415 | LLM1A DAC MAP PART-1 | | L1A D0:D1 | LLM1A N1D11 1<br>LLM1A N1D21 1 | 16 | F S | CDS<br>CDS | LA DACMAP1 |
| E-0416<br>E-0416 | LLM1A DAC MAP PART-2 | | L1A D2:D3 | LLM1A N1D65 1<br>LLM1A N1D75 1 | 16 | F S | CDS<br>CDS | LA DACMAP2 |
| E-0417<br>E-0417 | LLM1A DACS RECEIVED COUNTER | | L1A D4 | LLM1A N1D48 1<br>LLM1A N1D58 1 | 8 | F S | CDS<br>CDS | LA DAC-RC |
| E-0418<br>E-0418 | LLM1A DACS REJECTED COUNTER | | L1A D5 | LLM1A N1D48 2<br>LLM1A N1D58 2 | 8 | F S | CDS<br>CDS | LA DAC-RJ |
| E-0419 | LLM1A DAC BC COUNTER | | L1A D6 | LLM1A N1D33 1 | 8 | F S | CDS | LA DAC-BCS |
| E-0420 | LLM1A DAC CHECKSUM ERROR COUNTER | | L1A D7 | | 8 | F S | CDS | LA DAC-ER |
| E-0421 | LLM1A S/C TEMPERATURE ENABLE STATUS (PRIV) | | L1A B4 | LLM1A N1D46 1 | 8 | F S | CDS | LA P-TMP-E |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0422 | LLM1A MOS TEMPERATURE ENABLE STATUS (MON-PRIV) | | L1A B5 | LLM1A N1D46 2 | 8 | F S | CDS | LA N-TMP-E |
| E-0423 | LLM1A DMS TAPE POSITION ESTIMATE MSB | | L1A FD | LLM1A T1S00 | 8 | F S | CDS | LA DMS-MSB |
| E-0423 | | | | LLM1A T1S02 | | | CDS | |
| E-0423 | | | | LLM1A T1S07 | | | CDS | |
| E-0423 | | | | LLM1A T1S12 | | | CDS | |
| E-0424 | LLM1A DMS TAPE POSITION ESTIMATE LSB | | L1A FE | LLM1A T2S00 | 8 | F S | CDS | LA DMS-LSB |
| E-0424 | | | | LLM1A T2S01 | | | CDS | |
| E-0424 | | | | LLM1A T2S02 | | | CDS | |
| E-0424 | | | | LLM1A T2S06 | | | CDS | |
| E-0424 | | | | LLM1A T2S07 | | | CDS | |
| E-0424 | | | | LLM1A T2S08 | | | CDS | |
| E-0424 | | | | LLM1A T2S12 | | | CDS | |
| E-0425 | LLM1A MEMORY COPY FC COUNTER | | L1A 99 | LLM1A N1D33 2 | 8 | F S | CDS | LA COPY-FC |
| E-0426 | LLM1A TEMPERATURE BC COUNTER | | L1A 9A | LLM1A N1D87 1 | 8 | F S | CDS | LA TMP-BCS |
| E-0427 | LLM1A MEMORY TWEAK FC COUNTER | | L1A 9B | LLM1A N1D87 2 | 8 | F S | CDS | LA TWEAKS |
| E-0428 | LLM1A CHECKSUM RESULT | | L1A 9C | LLM1A N1D50 1 | 8 | F S | CDS | LA CHK-SUM |
| E-0429 | LLM1A CHECKSUM COUNTER | | L1A 9D | LLM1A N1D50 2 | 8 | F S | CDS | LA CHKSUMC |
| E-0430 | LLM2A LAST CC/DC RIM COUNT MSB/ISB | | L2A 80:81 | LLM2A N1D84 1 | 16 | F S | CDS | LC CD-RIM1 |
| E-0431 | LLM2A LAST CC/DC RIM COUNT LSB | | L2A 82 | LLM2A N1D47 1 | 8 | F S | CDS | LC CD-RIM2 |
| E-0432 | LLM2A LAST CC/DC MOD91 | | L2A 83 | LLM2A N1D47 2 | 8 | F S | CDS | LC CD-M91 |
| E-0433 | LLM2A LAST CC/DC MOD10 | | L2A 84 | LLM2A N1D10 1 | 8 | F S | CDS | LC CD-M10 |
| E-0434 | LLM2A LAST CC/DC POINTER | | L2A 85 | LLM2A N1D10 2 | 8 | F S | CDS | LC CD-PNTR |
| E-0435 | LLM2A LAST CC/DC BUFFER ENTRY 1 | | L2A 86:87 | LLM2A N1D64 1 | 16 | F S | CDS | LC CD-1 |
| E-0436 | LLM2A LAST CC/DC BUFFER ENTRY 2 | | L2A 88:89 | LLM2A N1D27 1 | 16 | F S | CDS | LC CD-2 |
| E-0437 | LLM2A LAST CC/DC BUFFER ENTRY 3 | | L2A 8A:8B | LLM2A N1D81 1 | 16 | F S | CDS | LC CD-3 |
| E-0438 | LLM2A LAST CC/DC BUFFER ENTRY 4 | | L2A 8C:8D | LLM2A N1D44 1 | 16 | F S | CDS | LC CD-4 |
| E-0439 | LLM2A LAST CC/DC BUFFER ENTRY 5 | | L2A 8E:8F | LLM2A N1D07 1 | 16 | F S | CDS | LC CD-5 |
| E-0440 | LLM2A LAST CC/DC BUFFER ENTRY 6 | | L2A 90:91 | LLM2A N1D61 1 | 16 | F S | CDS | LC CD-6 |
| E-0441 | LLM2A LAST CC/DC BUFFER ENTRY 7 | | L2A 92:93 | LLM2A N1D24 1 | 16 | F S | CDS | LC CD-7 |
| E-0442 | LLM2A PRIV CC/DC EXECUTED COUNTER | | L2A 9E | LLM2A N1D02 1 | 8 | F S | CDS | LC CD-P-EX |
| E-0442 | | | | LLM2A N1D12 1 | | | CDS | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0443<br>E-0443 | LLM2A MON-PRIV CC/DC EXECUTED COUNTER | | L2A 9F | LLM2A N1D02 2<br>LLM2A N1D12 2 | 8 | F S | CDS<br>CDS | LC CD-N-EX |
| E-0444<br>E-0444 | LLM2A CC/DC/(POWER CODE) QUEUED COUNTER | | L2A A0 | LLM2A N1D56 1<br>LLM2A N1D66 1 | 8 | F S | CDS<br>CDS | LC CD-P-Q |
| E-0445<br>E-0445 | LLM2A NON-PRIV CC/DC/(POWER CODE) QUEUED COUNTER | | L2A A1 | LLM2A N1D56 2<br>LLM2A N1D66 2 | 8 | F S | CDS<br>CDS | LC CD-N-Q |
| E-0446<br>E-0446 | LLM2A TEMPERATURE CC/DC QUEUED COUNTER | | L2A A2 | LLM2A N1D19 1<br>LLM2A N1D29 1 | 8 | F S | CDS<br>CDS | LC CD-T-Q |
| E-0447<br>E-0447 | LLM2A DAC CC/DC QUEUED COUNTER | | L2A A3 | LLM2A N1D19 2<br>LLM2A N1D29 2 | 8 | F S | CDS<br>CDS | LC CD-DACQ |
| E-0448<br>E-0448 | LLM2A AACS POWER CODES EXECUTED COUNTER | | L2A A4 | LLM2A N1D06 1<br>LLM2A N1D87 1 | 8 | F S | CDS<br>CDS | LC CD-E-C |
| E-0449<br>E-0449 | LLM2A AACS POWER CODES REJECTED COUNTER | | L2A A5 | LLM2A N1D06 2<br>LLM2A N1D87 2 | 8 | F S | CDS<br>CDS | LC PC-RF-C |
| E-0450 | LLM2A EPD/PLS CC/DC QUEUED COUNTER (DUMMY) | | L2A A6 | | 8 | F S | CDS | LC CD-SCIQ |
| E-0451 | LLM2A LAST VALID AACS POWER CODE | | L2A A7 | | 8 | F S | CDS | LC PC-LAST |
| E-0452 | LLM2A FC'S RECEIVED COUNTER | | L2A A8 | | 8 | F S | CDS | LC FC-RC-C |
| E-0453<br>E-0453 | LLM2A FC'S EXECUTED COUNTER | | L2A A9 | LLM2A N1D50 1<br>LLM2A N1D60 1 | 8 | F S | CDS<br>CDS | LC FC-EX-C |
| E-0454 | LLM2A LAST VALID FC ID | | L2A AA | | 8 | F S | CDS | LC FC-LAST |
| E-0455<br>E-0455 | LLM2A FC'S REJECTED COUNTER | | L2A AB | LLM2A N1D50 2<br>LLM2A N1D60 2 | 8 | F S | CDS<br>CDS | LC FC-RJ-C |
| E-0456 | LLM2A CHANGE PACKET SELECTION COUNTER | | L2A AC | LLM2A N1D45 1 | 8 | F S | CDS | LC PKT-SEL |
| E-0457 | LLM2A BUS TRANSACTIONS SENT COUNTER (DUMMY) | | L2A AD | | 8 | F S | CDS | LC BT-SENT |
| E-0458 | LLM2A CHANGE PACKET TIMING COUNTER | | L2A AE | LLM2A N1D08 1 | 8 | F S | CDS | LC PKT-TMG |
| E-0459 | LLM2A UPDATE PACKET MENU COUNTER | | L2A AF | LLM2A N1D08 2 | 8 | F S | CDS | LC MENU |
| E-0460 | LLM2A AACS POWER CODES RECEIVED COUNTER | | L2A B0:B1 | LLM2A N1D62 1 | 16 | F S | CDS | LC PC-RC-C |
| E-0461 | LLM2A FLAG STATUS | | L2A B6 | | 8 | F S | CDS | LC FLAG-ST |
| E-0462<br>E-0462 | LLM2A CDS DIAGNOSTIC MESSAGE COUNTER | | L2A B7 | LLM2A N1D28 1<br>LLM2A N1D38 1 | 8 | F S | CDS<br>CDS | LC CDIAG-C |
| E-0463 | LLM2A CDS DIAGNOSTIC MSG QUEUE ENTRY 1 | | L2A B8:B9 | | 16 | F S | CDS | LC CDSDIA1 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0464 | LLM2A CDS DIAGNOSTIC MSG QUEUE ENTRY 2 | | L2A BA:BB | | 16 | F S | CDS | LC CDSDIA2 |
| E-0465 | LLM2A CDS DIAGNOSTIC MSG QUEUE ENTRY 3 | | L2A BC:BD | | 16 | F S | CDS | LC CDSDIA3 |
| E-0466 | LLM2A CDS DIAGNOSTIC MSG QUEUE ENTRY 4 | | L2A BE:BF | | 16 | F S | CDS | LC CDSDIA4 |
| E-0467 | LLM2A SPARE | | L2A C0 | | 8 | F S | CDS | LC SPR-731 |
| E-0468<br>E-0468 | LLM2A SYSTEM DIAGNOSTIC MESSAGE COUNTER | | L2A C1 | LLM2A N1D28 2<br>LLM2A N1D38 2 | 8 | F S | CDS<br>CDS | LC SDIAG-C |
| E-0469 | LLM2A SYS DIAGNOSTIC MSG QUEUE ENTRY 1 | | L2A C2:C3 | | 16 | F S | CDS | LC SYSDIA1 |
| E-0470 | LLM2A SYS DIAGNOSTIC MSG QUEUE ENTRY 2 | | L2A C4:C5 | | 16 | F S | CDS | LC SYSDIA2 |
| E-0471 | LLM2A SYS DIAGNOSTIC MSG QUEUE ENTRY 3 | | L2A C6:C7 | | 16 | F S | CDS | LC SYSDIA3 |
| E-0472 | LLM2A SYS DIAGNOSTIC MSG QUEUE ENTRY 4 | | L2A C8:C9 | | 16 | F S | CDS | LC SYSDIA4 |
| E-0473<br>E-0473 | LLM2A ERROR WORD-1 IOSL-0 | | L2A CE:CF | LLM2A N1D01 1<br>LLM2A N1D82 1 | 8 | F S | CDS<br>CDS | LC IOSL-0 |
| E-0474<br>E-0474 | LLM2A ERROR WORD-2 IOSL-1 | | L2A CF | LLM2A N1D01 2<br>LLM2A N1D82 2 | 8 | F S | CDS<br>CDS | LC IOSL-1 |
| E-0475<br>E-0475 | LLM2A DAC MAP PART-1 | | L2A D0:D1 | LLM2A N1D22 1<br>LLM2A N1D86 1 | 16 | F S | CDS<br>CDS | LC DACMAP1 |
| E-0476<br>E-0476 | LLM2A DAC MAP PART-2 | | L2A D2:D3 | LLM2A N1D49 1<br>LLM2A N1D76 1 | 16 | F S | CDS<br>CDS | LC DACMAP2 |
| E-0477<br>E-0477 | LLM2A DACS RECEIVED COUNTER | | L2A D4 | LLM2A N1D32 1<br>LLM2A N1D59 1 | 8 | F S | CDS<br>CDS | LC DAC-RC |
| E-0478<br>E-0478 | LLM2A DACS REJECTED COUNTER | | L2A D5 | LLM2A N1D32 2<br>LLM2A N1D59 2 | 8 | F S | CDS<br>CDS | LC DAC-RJ |
| E-0479 | LLM2A DAC BC COUNTER (DUMMY) | | L2A D6 | LLM2A N1D45 2 | 8 | F S | CDS | LC DAC-BCS |
| E-0480 | LLM2A DAC CHECKSUM ERROR COUNTER | | L2A D7 | | 8 | F S | CDS | LC DAC-ER |
| E-0481 | LLM2A S/C TEMPERATURE ENABLE STATUS (PRIV) | | L2A B4 | | 8 | F S | CDS | LC P-TMP-E |
| E-0482 | LLM2A MOS TEMPERATURE ENABLE STATUS (MON-PRIV) | | L2A B5 | | 8 | F S | CDS | LC N-TMP-E |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE | POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|---|
| #E-0501 | LLM2A PLAYBACK TABLE SEGMENT NUMBER | | CDS | BUS | LLM2A N1D00 1 | 8 | ? ? | CDS | LC PBT SEG |
| E-0501 | | | | | LLM2A N1D13 1 | | | CDS | |
| E-0501 | | | | | LLM2A N1D26 1 | | | CDS | |
| E-0501 | | | | | LLM2A N1D39 1 | | | CDS | |
| E-0501 | | | | | LLM2A N1D52 1 | | | CDS | |
| E-0501 | | | | | LLM2A N1D65 1 | | | CDS | |
| E-0501 | | | | | LLM2A N1D78 1 | | | CDS | |
| #E-0502 | LLM2A PLAYBACK TABLE ENTRY NUMBER | | CDS | BUS | LLM2A N1D00 2 | 8 | ? ? | CDS | LC PBT ENT |
| E-0502 | | | | | LLM2A N1D13 2 | | | CDS | |
| E-0502 | | | | | LLM2A N1D26 2 | | | CDS | |
| E-0502 | | | | | LLM2A N1D39 2 | | | CDS | |
| E-0502 | | | | | LLM2A N1D52 2 | | | CDS | |
| E-0502 | | | | | LLM2A N1D65 2 | | | CDS | |
| E-0502 | | | | | LLM2A N1D78 2 | | | CDS | |
| #E-0503 | CDS DESPUN POR COUNT (CDS A) | | CDS | BUS | LLM2A N1D09 2 | 8 | ? ? | CDS | LC DS PORC |
| #E-0504 | CDS PLAYBACK MANAGER STATUS (CDS A) | | CDS | BUS | LLM2A N1D14 2 | 8 | ? ? | CDS | LC PBMGR S |
| E-0504 | | | | | LLM2A N1D33 2 | | | CDS | |
| E-0504 | | | | | LLM2A N1D69 2 | | | CDS | |
| #E-0505 | HLM1A DBUM1A ERROR WORD (A of E-0172 A:B) | | H1A | 00 | HLM1A N1F40 4 | 8 | F S | CDS | HA D1A ERR |
| #E-0506 | HLM1A DBUM1B ERROR WORD (B of E-0172 A:B) | | H1A | 00 | HLM1A N1F57 4 | 8 | F S | CDS | HA D1B ERR |
| #E-0507 | HLM1A F/P RESPONSE INACTIVE ENABLES GPV112 (A of E-0204 A:B:C:) | | H1A | 00 | HLM1A N1S06 1 | 8 | F S | CDS | HA GPV-112 |
| E-0507 | | | | | HLM1A N1S13 1 | | | CDS | |
| E-0507 | | | | | HLM1A N1S20 1 | | | CDS | |
| E-0507 | | | | | HLM1A N1S27 1 | | | CDS | |
| E-0507 | | | | | HLM1A N1S34 1 | | | CDS | |
| E-0507 | | | | | HLM1A N1S41 1 | | | CDS | |
| E-0507 | | | | | HLM1A N1S48 1 | | | CDS | |
| E-0507 | | | | | HLM1A N1S55 1 | | | CDS | |
| E-0507 | | | | | HLM1A N1S62 1 | | | CDS | |
| E-0507 | | | | | HLM1A N1S69 1 | | | CDS | |
| E-0507 | | | | | HLM1A N1S76 1 | | | CDS | |
| E-0507 | | | | | HLM1A N1S83 1 | | | CDS | |
| E-0507 | | | | | HLM1A N1S90 1 | | | CDS | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| #E-0508 | HLM1A F/P RESPONSE INACTIVE ENABLES GPV113 (B of E-0204 A:B:C:) | | H1A 00 | HLM1A N1S04 1 | 8 | F S | CDS | HA GPV-113 |
| E-0508 | | | | HLM1A N1S11 1 | | | CDS | |
| E-0508 | | | | HLM1A N1S18 1 | | | CDS | |
| E-0508 | | | | HLM1A N1S25 1 | | | CDS | |
| E-0508 | | | | HLM1A N1S32 1 | | | CDS | |
| E-0508 | | | | HLM1A N1S39 1 | | | CDS | |
| E-0508 | | | | HLM1A N1S46 1 | | | CDS | |
| E-0508 | | | | HLM1A N1S53 1 | | | CDS | |
| E-0508 | | | | HLM1A N1S60 1 | | | CDS | |
| E-0508 | | | | HLM1A N1S67 1 | | | CDS | |
| E-0508 | | | | HLM1A N1S74 1 | | | CDS | |
| E-0508 | | | | HLM1A N1S81 1 | | | CDS | |
| E-0508 | | | | HLM1A N1S88 1 | | | CDS | |
| #E-0509 | HLM1A F/P RESPONSE INACTIVE ENABLES GPV114 (C of E-0204 A:B:C:) | | H1A 00 | HLM1A N1S02 1 | 8 | F S | CDS | HA GPV-114 |
| E-0509 | | | | HLM1A N1S09 1 | | | CDS | |
| E-0509 | | | | HLM1A N1S16 1 | | | CDS | |
| E-0509 | | | | HLM1A N1S23 1 | | | CDS | |
| E-0509 | | | | HLM1A N1S30 1 | | | CDS | |
| E-0509 | | | | HLM1A N1S37 1 | | | CDS | |
| E-0509 | | | | HLM1A N1S44 1 | | | CDS | |
| E-0509 | | | | HLM1A N1S51 1 | | | CDS | |
| E-0509 | | | | HLM1A N1S58 1 | | | CDS | |
| E-0509 | | | | HLM1A N1S65 1 | | | CDS | |
| E-0509 | | | | HLM1A N1S72 1 | | | CDS | |
| E-0509 | | | | HLM1A N1S79 1 | | | CDS | |
| E-0509 | | | | HLM1A N1S86 1 | | | CDS | |
| #E-0510 | HLM1A VCDUs IN MULTI-USE BUFFER | | CDS BUS | HLM1A N1F37 1 | 8 | ? ? | CDS | HA VC MBC |
| E-0510 | | | | HLM1A N1F49 1 | | | CDS | |
| E-0510 | | | | HLM1A N1F56 1 | | | CDS | |
| #E-0511 | HLM1A VCDUs REJECTED BY MULTI-USE BUFFER | | CDS BUS | HLM1A N1F37 2 | 8 | ? ? | CDS | HA VC MBRJ |
| E-0511 | | | | HLM1A N1F49 2 | | | CDS | |
| E-0511 | | | | HLM1A N1F56 2 | | | CDS | |
| #E-0512 | HLM1A VCDUs REJECTED BY PRIORITY BUFFER | | CDS BUS | HLM1A N1F37 3 | 8 | ? ? | CDS | HA VC PBRJ |
| E-0512 | | | | HLM1A N1F49 3 | | | CDS | |
| E-0512 | | | | HLM1A N1F56 3 | | | CDS | |
| #E-0513 | HLM1A IMAGE COMPRESSION STATUS (* VALID IN STR B ONLY) | | CDS BUS | HLM1A N1F37 4 | 8 | ? ? | CDS | HA IMGCP S |
| E-0513 | | | | HLM1A N1F49 4 | | | CDS | |
| E-0513 | | | | HLM1A N1F56 4 | | | CDS | |
| E-0615 | HLM1B LAST BC RIM COUNT | | H1B 00 | | 24 | F S | CDS | HB BC-RIM |
| E-0616 | HLM1B LAST BC MOD91 | | H1B 00 | | 8 | F S | CDS | HB BC-M91 |
| E-0617 | HLM1B BC BUFFER ENTRY 1A | | H1B 00 | | 32 | F S | CDS | HB BC-1A |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0618 | HLM1B BC BUFFER ENTRY 2A | | H1B 00 | | 32 | F S | CDS | HB BC-2A |
| E-0619 | HLM1B BC BUFFER ENTRY 3A | | H1B 00 | | 32 | F S | CDS | HB BC-3A |
| E-0620 | HLM1B BC BUFFER ENTRY 4A | | H1B 00 | | 32 | F S | CDS | HB BC-4A |
| E-0621 | HLM1B BC BUFFER ENTRY 5A | | H1B 00 | | 32 | F S | CDS | HB BC-5A |
| E-0622 | HLM1B BC BUFFER ENTRY 6A | | H1B 00 | | 32 | F S | CDS | HB BC-6A |
| E-0623 | HLM1B BC BUFFER ENTRY 7A | | H1B 00 | | 32 | F S | CDS | HB BC-7A |
| E-0624 | HLM1B BC BUFFER ENTRY 8A | | H1B 00 | | 32 | F S | CDS | HB BC-8A |
| E-0625 | HLM1B BC BUFFER ENTRY 9A | | H1B 00 | | 32 | F S | CDS | HB BC-9A |
| E-0626 | HLM1B BC BUFFER ENTRY 10A | | H1B 00 | | 32 | F S | CDS | HB BC-10A |
| E-0627 | HLM1B BC BUFFER ENTRY 11A | | H1B 00 | | 32 | F S | CDS | HB BC-11A |
| E-0628 | HLM1B BC BUFFER ENTRY 12A | | H1B 00 | | 32 | F S | CDS | HB BC-12A |
| E-0629 | HLM1B BC BUFFER ENTRY 13A | | H1B 00 | | 32 | F S | CDS | HB BC-13A |
| E-0630 | HLM1B BC BUFFER ENTRY 14A | | H1B 00 | | 32 | F S | CDS | HB BC-14A |
| E-0631 | HLM1B BC BUFFER ENTRY 15A | | H1B 00 | | 32 | F S | CDS | HB BC-15A |
| E-0632 | HLM1B BC BUFFER ENTRY 16A | | H1B 00 | | 32 | F S | CDS | HB BC-16A |
| E-0633<br>E-0633 | HLM1B NOW-BUFFERED BC COUNTER | | H1B 00 | HLM1B N1F44 1<br>HLM1B N1F51 1 | 16 | F S | CDS<br>CDS | HB NB-BC-C |
| E-0634<br>E-0634 | HLM1B LAST UPLINK HESSAGE | | H1B 00 | HLM1B N1F47 1<br>HLM1B N1F54 1 | 16 | F S | CDS<br>CDS | HB LASTMSG |
| E-0635 | HLM1B S/S FC COUNTER | | H1B 00 | | 16 | F S | CDS | HB S/S-FCS |
| E-0636<br>E-0636 | HLM1B S/S BC COUNTER | | H1B 00 | HLM1B N1F81 3<br>HLM1B N1F88 3 | 16 | F S | CDS<br>CDS | HB S/S-BCS |
| E-0637 | HLM1B F/P FC COUNTER | | H1B 00 | | 16 | F S | CDS | HB F/P-FCS |
| E-0638<br>E-0638 | HLM1B F/P BC COUNTER | | H1B 00 | HLM1B N1F81 1<br>HLM1B N1F88 1 | 16 | F S | CDS<br>CDS | HB F/P-BCS |
| E-0641 | HLM1B LLM BUS TRANSACTIONS RECEIVED | | H1B 00 | | 8 | F S | CDS | HB BT-RC-C |
| E-0642 | HLM1B DAC ERROR COUNTER | | H1B 00 | | 8 | F S | CDS | HB DACER-C |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0643 | HLM1B MEM COPY/TWEAK ERROR COUNTER | | H1B 00 | | 8 | F S | CDS | HB MC/T-ER |
| E-0644<br>E-0644 | HLM1B BUM ERROR LIMITER | | H1B 00 | HLM1B N1F23 1<br>HLM1B N1F30 1 | 8 | F S | CDS<br>CDS | HB BMERLIM |
| E-0645 | HLM1B TO LLMS PRIVILEDGED FC COUNTER | | H1B 00 | | 8 | F S | CDS | HB LM-P-FC |
| E-0646 | HLM1B TO LLMS TOTAL FC COUNTER | | H1B 00 | | 8 | F S | CDS | HB LM-T-FC |
| E-0647 | HLM1B NON-PRIV CC/DC/POWER CODE COUNTER | | H1B 00 | | 8 | F S | CDS | HB N-CD/PC |
| E-0648 | HLM1B PRIV CC/DC/POWER CODE COUNTER | | H1B 00 | | 8 | F S | CDS | HB P-CD/PC |
| E-0649 | HLM1B GPV-28 (SPARE) | | H1B 00 | | 8 | F S | CDS | HB HGA PD1 |
| E-0650 | HLM1B GPV-29 (SPARE) | | H1B 00 | | 8 | F S | CDS | HB HGA PD2 |
| E-0651 | HLM1B GPV-30 (SPARE) | | H1B 00 | | 8 | F S | CDS | HB HGA PD3 |
| E-0652 | HLM1B GPV-31 (SPARE) | | H1B 00 | | 8 | F S | CDS | HB HGA PD4 |
| E-0653 | HLM1B DESPUN CRC REGISTERS 0-3 | | H1B 00 | HLM1B N1F77 1 | 32 | F S | CDS | HB CRCD0-3 |
| E-0654 | HLM1B DESPUN CRC REGISTERS 4-6 | | H1B 00 | HLM1B N1F40 1 | 24 | F S | CDS | HB CRCD4-6 |
| E-0655<br>E-0655 | HLM1B DESPUN CRC BANK B ERROR STATUS | | H1B 00 | HLM1B N1F23 2<br>HLM1B N1F30 2 | 8 | F S | CDS<br>CDS | HB DS CRCB |
| E-0656 | HLM1B SPUN CRC BANK A REGISTERS 0-3 | | H1B 00 | HLM1B N1F03 1 | 32 | F S | CDS | HB CRCA0-3 |
| E-0657 | HLM1B SPUN CRC BANK A REGISTERS 4-6 | | H1B 00 | HLM1B N1F57 1 | 24 | F S | CDS | HB CRCA4-6 |
| E-0658<br>E-0658 | HLM1B SPUN CRC BANK B ERROR STATUS | | H1B 00 | HLM1B N1F23 3<br>HLM1B N1F30 3 | 8 | F S | CDS<br>CDS | HB SP CRCB |
| E-0659 | HLM1B SPUN CRC BANK B REGISTERS 0-3 | | H1B 00 | HLM1B N1F20 1 | 32 | F S | CDS | HB CRCB0-3 |
| E-0660 | HLM1B SPUN CRC BANK B REGISTERS 4-7 | | H1B 00 | HLM1B N1F74 1 | 32 | F S | CDS | HB CRCB4-7 |
| E-0661 | HLM1B HCD COMMAND SUMMARY WORD | | H1B 00 | | 8 | F S | CDS | HB CMD-SMY |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0662 | HLM1B MESSAGES RECEIVED AND ACCEPTED COUNTER | | H1B 00 | HLM1B N1S00 1 | 8 | F S | CDS | HB MSG-ACC |
| E-0662 | | | | HLM1B N1S07 1 | | | CDS | |
| E-0662 | | | | HLM1B N1S14 1 | | | CDS | |
| E-0662 | | | | HLM1B N1S21 1 | | | CDS | |
| E-0662 | | | | HLM1B N1S28 1 | | | CDS | |
| E-0662 | | | | HLM1B N1S35 1 | | | CDS | |
| E-0662 | | | | HLM1B N1S42 1 | | | CDS | |
| E-0662 | | | | HLM1B N1S49 1 | | | CDS | |
| E-0662 | | | | HLM1B N1S56 1 | | | CDS | |
| E-0662 | | | | HLM1B N1S63 1 | | | CDS | |
| E-0662 | | | | HLM1B N1S70 1 | | | CDS | |
| E-0662 | | | | HLM1B N1S77 1 | | | CDS | |
| E-0662 | | | | HLM1B N1S84 1 | | | CDS | |
| E-0663 | HLM1B MESSAGES RECEIVED AND REJECTED COUNTER | | H1B 00 | HLM1B N1S05 1 | 8 | F S | CDS | HB MSG-RJ |
| E-0663 | | | | HLM1B N1S12 1 | | | CDS | |
| E-0663 | | | | HLM1B N1S19 1 | | | CDS | |
| E-0663 | | | | HLM1B N1S26 1 | | | CDS | |
| E-0663 | | | | HLM1B N1S33 1 | | | CDS | |
| E-0663 | | | | HLM1B N1S40 1 | | | CDS | |
| E-0663 | | | | HLM1B N1S47 1 | | | CDS | |
| E-0663 | | | | HLM1B N1S54 1 | | | CDS | |
| E-0663 | | | | HLM1B N1S61 1 | | | CDS | |
| E-0663 | | | | HLM1B N1S68 1 | | | CDS | |
| E-0663 | | | | HLM1B N1S75 1 | | | CDS | |
| E-0663 | | | | HLM1B N1S82 1 | | | CDS | |
| E-0663 | | | | HLM1B N1S89 1 | | | CDS | |
| E-0664 | HLM1B COMMAND FRAME ERRORS DETECTED COUNTER | | H1B 00 | HLM1B N1F00 1 | 8 | F S | CDS | HB FRM-ER |
| E-0664 | | | | HLM1B N1F84 1 | | | CDS | |
| E-0665 | HLM1B DATA FRAME ERRORS CORRECTED COUNTER | | H1B 00 | HLM1B N1F00 2 | 8 | F S | CDS | HB FRM-COR |
| E-0665 | | | | HLM1B N1F84 2 | | | CDS | |
| E-0666 | HLM1B DATA FRAME ERRORS UNCORRECTABLE COUNTER | | H1B 00 | HLM1B N1F00 3 | 8 | F S | CDS | HB FRM-UNC |
| E-0666 | | | | HLM1B N1F84 3 | | | CDS | |
| E-0667 | HLM1B LOCK CHANGES COUNTER | | H1B 00 | HLM1B N1F00 4 | 8 | F S | CDS | HB LOCK-C |
| E-0667 | | | | HLM1B N1F84 4 | | | CDS | |
| E-0668 | HLM1B SPUN CRC STATUS WORD | | H1B 00 | HLM1B N1F06 1 | 8 | F S | CDS | HB CRCS-ST |
| E-0668 | | | | HLM1B N1F13 1 | | | CDS | |
| E-0669 | HLM1B ERROR WORDS IOSL 0-1-2 | | H1B 00 | HLM1B N1F06 2 | 24 | F S | CDS | HB IOSL012 |
| E-0669 | | | | HLM1B N1F13 2 | | | CDS | |
| E-0670 | HLM1B CMD LOSS RESPONSE COUNTER | | H1B 00 | | 8 | F S | CDS | HB CMDLS-C |
| E-0671 | HLM1B BUM ERROR WORDS | | H1B 00 | HLM1B N1F60 1 | 32 | F S | CDS | HB BUM-ER |
| E-0671 | | | | HLM1B N1F67 1 | | | CDS | |
| E-0672 | HLM1B DBUM ERROR WORDS (E-0505:E-0506 = E-0672) | | H1B 00 | | 16 | F S | CDS | HB DBUM-ER |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0673 | HLM1B FLAG STATUS | | H1B 00 | | 8 | F S | CDS | HB FLAG-ST |
| E-0674<br>E-0674 | HLM1B EXTENDED BACKGROUND PROCESSING COUNTER | | H1B 00 | HLM1B N1F07 1<br>HLM1B N1F14 1 | 8 | F S | CDS<br>CDS | HB RTI-789 |
| E-0675 | HLM1B THIS CDS OF MODE | | H1B 00 | | 8 | F S | CDS | HB CDS-OP |
| E-0676<br>E-0676 | HLM1B THIS SAFE REQUEST FLAG | | H1B 00 | HLM1B N1F07 2<br>HLM1B N1F14 2 | 8 | F S | CDS<br>CDS | HB SAFE-RQ |
| E-0677<br>E-0677 | HLM1B THIS SAFE ENABLE | | H1B 00 | HLM1B N1F07 3<br>HLM1B N1F14 3 | 8 | F S | CDS<br>CDS | HB SAFE-EN |
| E-0678 | HLM1B THIS EFFECTUAL DOWN FLAG | | H1B 00 | | 8 | F S | CDS | HB EF-DOWN |
| E-0679<br>E-0679 | HLM1B GPV-131 (SPARE TO OTHER HLM) | | H1B 00 | HLM1B N1F07 4<br>HLM1B N1F14 4 | 8 | F S | CDS<br>CDS | HB CLK ERR |
| E-0680 | HLM1B GPV-132 (SPARE TO OTHER HLM) | | H1B 00 | | 8 | F S | CDS | HB GPV-132 |
| E-0681 | HLM1B GPV-133 (SPARE TO OTHER HLM) | | H1B 00 | | 8 | F S | CDS | HB GPV-133 |
| E-0682 | HLM1B THIS SIDE LAUNCH MODE READY | | H1B 00 | | 8 | F S | CDS | HB LAUNCH |
| E-0683<br>E-0683 | HLM1B OUT-OF-RANGE ALERT CODE COUNTER | | H1B 00 | HLM1B N1F58 1<br>HLM1B N1F65 1 | 8 | F S | CDS<br>CDS | HB AC-OUT |
| E-0684<br>E-0684 | HLM1B ERRONEOUS ALERT CODE COUNTER | | H1B 00 | HLM1B N1F58 2<br>HLM1B N1F65 2 | 8 | F S | CDS<br>CDS | HB AC-ERON |
| E-0685<br>E-0685 | HLM1B AACS ALERT CODE RECEIVED COUNTER | | H1B 00 | HLM1B N1F58 3<br>HLM1B N1F65 3 | 16 | F S | CDS<br>CDS | HB AC-RC-C |
| E-0686<br>E-0686 | HLM1B HEARTBEAT ENTRY COUNTER | | H1B 00 | HLM1B N1F04 2<br>HLM1B N1F11 2 | 8 | F S | CDS<br>CDS | HB H/B-RSP |
| E-0687<br>E-0687 | HLM1B HEARTBEAT ERROR COUNTER ACCUMULATED | | H1B 00 | HLM1B N1F04 3<br>HLM1B N1F11 3 | 8 | F S | CDS<br>CDS | HB H/B-ER |
| E-0688 | HLM1B LAST ALERT CODE | | H1B 00 | | 8 | F S | CDS | HB AC-LAST |
| E-0689<br>E-0689 | HLM1B AACS ALERT CODE RESPONSE COUNTER | | H1B 00 | HLM1B N1F21 1<br>HLM1B N1F28 1 | 8 | F S | CDS<br>CDS | HB AC-EX-C |
| E-0690<br>E-0690 | HLM1B COMMAND LOSS RESPONSE START TIME | | H1B 00 | HLM1B N1F21 2<br>HLM1B N1F28 2 | 24 | F S | CDS<br>CDS | HB CMOLS-T |
| E-0691 | HLM1B AACS HEARTBEAT CODE | | H1B 00 | | 8 | F S | CDS | HB H/BCODE |
| E-0692 | HLM1B TF IMMINENT ALERT CODE COUNTER | | H1B 00 | | 8 | F S | CDS | HB TF-IMM |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0693 | HLM1B TF ALL CLEAR ALERT CODE COUNTER | | H1B 00 | | 8 | F S | CDS | HB TF-ALCL |
| E-0694 | HLM1B TF ALL CLEAR COMPLETION COUNTER | | H1B 00 | | 8 | F S | CDS | HB TF-END |
| E-0695<br>E-0695 | HLM1B U/V RESPONSE COUNTER | | H1B 00 | HLM1B N1F04 4<br>HLM1B N1F11 4 | 8 | F S | CDS<br>CDS | HB UV-RSP |
| E-0696<br>E-0696 | HLM1B S/C F/P MONITOR ENABLE (PRIV) | | H1B 00 | HLM1B N1F61 1<br>HLM1B N1F68 1 | 8 | F S | CDS<br>CDS | HB P-MON-E |
| E-0697 | HLM1B U/V DIODE UNSHORT COUNTER | | H1B 00 | | 8 | F S | CDS | HB UV-DIO |
| E-0698 | HLM1B OVERPRESSURE TEMPERATURE FLAG | | H1B 00 | | 8 | F S | CDS | HB OVRPRES |
| E-0699 | HLM1B U/V TRIP/INVERTER SWITCH COUNTER | | H1B 00 | | 8 | F S | CDS | HB UV-INV |
| E-0700<br>E-0700 | HLM1B S/C F/P RESPONSE ENABLES (PRIV) | | H1B 00 | HLM1B N1F61 2<br>HLM1B N1F68 2 | 24 | F S | CDS<br>CDS | HB P-F/P-E |
| E-0701 | HLM1B CDS POR RESPONSE COUNTER | | H1B 00 | | 8 | F S | CDS | HB CDS-POR |
| E-0702<br>E-0702 | HLM1B F/P CONDITION (REQUESTS) ENABLES | | H1B 00 | HLM1B N1F24 1<br>HLM1B N1F31 1 | 24 | F S | CDS<br>CDS | HB C-F/P-E |
| E-0703<br>E-0703 | HLM1B RFLOSS RESPONSE COUNTER | | H1B 00 | HLM1B N1F24 4<br>HLM1B N1F31 4 | 8 | F S | CDS<br>CDS | HB RFLOSS |
| E-0704 | HLM1B F/P RESPONSE INACTIVE ENABLES (E-0507:E-0508:E-0509 = E-0704) | | H1B 00 | | 24 | F S | CDS | HB I-F/P-E |
| E-0705<br>E-0705 | HLM1B PRIME/BACKUP STATUS | | H1B 00 | HLM1B N1F23 4<br>HLM1B N1F30 4 | 8 | F S | CDS<br>CDS | HB PRM/BKU |
| E-0706<br>E-0706 | HLM1B MOS F/P RESPONSE ENABLES (MON-PRIV) | | H1B 00 | HLM1B N1F78 1<br>HLM1B N1F85 1 | 24 | F S | CDS<br>CDS | HB N-F/P-E |
| E-0707<br>E-0707 | HLM1B AACS STATUS | | H1B 00 | HLM1B N1F78 4<br>HLM1B N1F85 4 | 8 | F S | CDS<br>CDS | HB AACS-ST |
| E-0708<br>E-0708 | HLM1B MOS F/P MONITOR ENABLE (NON-PRIV) | | H1B 00 | HLM1B N1F41 1<br>HLM1B N1F48 1 | 8 | F S | CDS<br>CDS | HB N-MON-E |
| E-0709 | HLM1B MOS THRUSTER TEMPERATURE ENABLE (NON-PRIV) | | H1B 00 | | 8 | F S | CDS | HB N-THR-E |
| E-0710 | HLM1B CMD LOSS RESET DELTA RIMS | | H1B 00 | | 16 | F S | CDS | HB CMDLS-R |
| E-0711<br>E-0711 | HLM1B SYSTEM FAULT STATUS | | H1B 00 | HLM1B N1F41 3<br>HLM1B N1F48 3 | 16 | F S | CDS<br>CDS | HB SYS-ST |
| E-0712 | HLM1B F/P MODE | | H1B 00 | | 8 | F S | CDS | HB F/PMODE |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0713<br>E-0713 | HLM1B F/P PATH CONTROL | | H1B 00 | HLM1B N1F41 2<br>HLM1B N1F48 2 | 8 | F S | CDS<br>CDS | HB PATHCTL |
| E-0714<br>E-0714 | HLM1B GV-92 (SPARE TO OTHER HLM) | | H1B 00 | HLM1B N1F44 3<br>HLM1B N1F51 3 | 8 | F S | CDS<br>CDS | HB GV-92 |
| E-0715<br>E-0715 | HLM1B GV-93 (SPARE TO OTHER HLM) | | H1B 00 | HLM1B N1F44 4<br>HLM1B N1F51 4 | 8 | F S | CDS<br>CDS | HB GV-93 |
| E-0716 | HLM1B GV-94 (SPARE TO OTHER HLM) | | H1B 00 | | 8 | F S | CDS | HB GV-94 |
| E-0717 | HLM1B GV-95 (SPARE TO OTHER HLM) | | H1B 00 | | 8 | F S | CDS | HB GV-95 |
| E-0718 | HLM1B GV-96 (SPARE TO OTHER HLM) | | H1B 00 | | 8 | F S | CDS | HB GV-96 |
| E-0719 | HLM1B GV-97 (SPARE TO OTHER HLM) | | H1B 00 | | 8 | F S | CDS | HB GV-97 |
| E-0720 | HLM1B GV-98 (SPARE TO OTHER HLM) | | H1B 00 | | 8 | F S | CDS | HB GV-98 |
| E-0721 | HLM1B GV-99 (SPARE TO OTHER HLM) | | H1B 00 | | 8 | F S | CDS | HB PROBEGO |
| E-0722<br>E-0722 | HLM1B SYS DIAGNOSTIC MSG QUEUE ENTRY 1 | | H1B 00 | HLM1B N1F75 1<br>HLM1B N1F82 1 | 16 | F S | CDS<br>CDS | HB SYSDIA1 |
| E-0723<br>E-0723 | HLM1B SYS DIAGNOSTIC MSG QUEUE ENTRY 2 | | H1B 00 | HLM1B N1F75 3<br>HLM1B N1F82 3 | 16 | F S | CDS<br>CDS | HB SYSDIA2 |
| E-0724<br>E-0724 | HLM1B SYS DIAGNOSTIC MSG QUEUE ENTRY 3 | | H1B 00 | HLM1B N1F38 1<br>HLM1B N1F45 1 | 16 | F S | CDS<br>CDS | HB SYSDIA3 |
| E-0725<br>E-0725 | HLM1B SYS DIAGNOSTIC MSG QUEUE ENTRY 4 | | H1B 00 | HLM1B N1F38 3<br>HLM1B N1F45 3 | 16 | F S | CDS<br>CDS | HB SYSDIA4 |
| E-0726<br>E-0726 | HLM1B SYS DIAGNOSTIC MSG QUEUE ENTRY 5 | | H1B 00 | HLM1B N1F01 1<br>HLM1B N1F08 1 | 16 | F S | CDS<br>CDS | HB SYSDIA5 |
| E-0727<br>E-0727 | HLM1B SYS DIAGNOSTIC MSG QUEUE ENTRY 6 | | H1B 00 | HLM1B N1F01 3<br>HLM1B N1F08 3 | 16 | F S | CDS<br>CDS | HB SYSDIA6 |
| E-0728<br>E-0728 | HLM1B SYS DIAGNOSTIC MSG QUEUE ENTRY 7 | | H1B 00 | HLM1B N1F55 1<br>HLM1B N1F62 1 | 16 | F S | CDS<br>CDS | HB SYSDIA7 |
| E-0729<br>E-0729 | HLM1B SYS DIAGNOSTIC MSG QUEUE ENTRY 8 | | H1B 00 | HLM1B N1F55 3<br>HLM1B N1F62 3 | 16 | F S | CDS<br>CDS | HB SYSDIA8 |
| E-0730<br>E-0730 | HLM1B CDS DIAGNOSTIC MSG QUEUE ENTRY 1 | | H1B 00 | HLM1B N1F18 1<br>HLM1B N1F25 1 | 16 | F S | CDS<br>CDS | HB CDSDIA1 |
| E-0731<br>E-0731 | HLM1B CDS DIAGNOSTIC MSG QUEUE ENTRY 2 | | H1B 00 | HLM1B N1F18 3<br>HLM1B N1F25 3 | 16 | F S | CDS<br>CDS | HB CDSDIA2 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0732<br>E-0732 | HLM1B CDS DIAGNOSTIC MSG QUEUE ENTRY 3 | | H1B 00 | HLM1B N1F72 1<br>HLM1B N1F79 1 | 16 | F S | CDS<br>CDS | HB CDSDIA3 |
| E-0733<br>E-0733 | HLM1B CDS DIAGNOSTIC MSG QUEUE ENTRY 4 | | H1B 00 | HLM1B N1F72 3<br>HLM1B N1F79 3 | 16 | F S | CDS<br>CDS | HB CDSDIA4 |
| E-0734<br>E-0734 | HLM1B CDS DIAGNOSTIC MSG QUEUE ENTRY 5 | | H1B 00 | HLM1B N1F35 1<br>HLM1B N1F42 1 | 16 | F S | CDS<br>CDS | HB CDSDIA5 |
| E-0735<br>E-0735 | HLM1B CDS DIAGNOSTIC MSG QUEUE ENTRY 6 | | H1B 00 | HLM1B N1F35 3<br>HLM1B N1F42 3 | 16 | F S | CDS<br>CDS | HB CDSDIA6 |
| E-0736<br>E-0736 | HLM1B CDS DIAGNOSTIC MSG QUEUE ENTRY 7 | | H1B 00 | HLM1B N1F05 1<br>HLM1B N1F89 1 | 16 | F S | CDS<br>CDS | HB CDSDIA7 |
| E-0737<br>E-0737 | HLM1B CDS DIAGNOSTIC MSG QUEUE ENTRY 8 | | H1B 00 | HLM1B N1F05 3<br>HLM1B N1F89 3 | 16 | F S | CDS<br>CDS | HB CDSDIA8 |
| E-0738<br>E-0738 | HLM1B CAP/IAP PROGRAM STATE FILE | | H1B 00 | HLM1B N1F52 1<br>HLM1B N1F59 1 | 32 | F S | CDS<br>CDS | HB C/I-PSF |
| E-0739 | HLM1B F/P PROGRAM STATE FILE ENTRY 1 | | H1B 00 | | 32 | F S | CDS | HB F/P-1 |
| E-0740<br>E-0740 | HLM1B F/P PROGRAM STATE FILE ENTRY 2 | | H1B 00 | HLM1B N1F15 1<br>HLM1B N1F22 1 | 32 | F S | CDS<br>CDS | HB F/P-2 |
| E-0741<br>E-0741 | HLM1B F/P PROGRAM STATE FILE ENTRY 3 | | H1B 00 | HLM1B N1F69 1<br>HLM1B N1F76 1 | 32 | F S | CDS<br>CDS | HB F/P-3 |
| E-0742<br>E-0742 | HLM1B F/P PROGRAM STATE FILE ENTRY 4 | | H1B 00 | HLM1B N1F32 1<br>HLM1B N1F39 1 | 32 | F S | CDS<br>CDS | HB F/P-4 |
| E-0743<br>E-0743 | HLM1B F/P PROGRAM STATE FILE ENTRY 5 | | H1B 00 | HLM1B N1F02 1<br>HLM1B N1F86 1 | 32 | F S | CDS<br>CDS | HB F/P-5 |
| E-0744 | HLM1B F/P PROGRAM STATE FILE ENTRY 6 | | H1B 00 | | 32 | F S | CDS | HB F/P-6 |
| E-0745 | HLM1B F/P PROGRAM STATE FILE ENTRY 7 | | H1B 00 | | 32 | F S | CDS | HB F/P-7 |
| E-0746 | HLM1B F/P PROGRAM STATE FILE ENTRY 8 | | H1B 00 | | 32 | F S | CDS | HB F/P-8 |
| E-0747 | HLM1B F/P PROGRAM STATE FILE ENTRY 9 | | H1B 00 | | 32 | F S | CDS | HB F/P-9 |
| E-0748 | HLM1B F/P PROGRAM STATE FILE ENTRY 10 | | H1B 00 | | 32 | F S | CDS | HB F/P-10 |
| E-0749<br>E-0749 | HLM1B S/S PROGRAM STATE FILE ENTRY 1 | | H1B 00 | HLM1B N1F12 1<br>HLM1B N1F19 1 | 32 | F S | CDS<br>CDS | HB S/S-1 |
| E-0750<br>E-0750 | HLM1B S/S PROGRAM STATE FILE ENTRY 2 | | H1B 00 | HLM1B N1F66 1<br>HLM1B N1F73 1 | 32 | F S | CDS<br>CDS | HB S/S-2 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0751<br>E-0751 | HLM1B S/S PROGRAM STATE FILE ENTRY 3 | | H1B 00 | HLM1B N1F29 1<br>HLM1B N1F36 1 | 32 | F S | CDS<br>CDS | HB S/S-3 |
| E-0752<br>E-0752 | HLM1B S/S PROGRAM STATE FILE ENTRY 4 | | H1B 00 | HLM1B N1F83 1<br>HLM1B N1F90 1 | 32 | F S | CDS<br>CDS | HB S/S-4 |
| E-0753<br>E-0753 | HLM1B S/S PROGRAM STATE FILE ENTRY 5 | | H1B 00 | HLM1B N1F46 1<br>HLM1B N1F53 1 | 32 | F S | CDS<br>CDS | HB S/S-5 |
| E-0754<br>E-0754 | HLM1B S/S PROGRAM STATE FILE ENTRY 6 | | H1B 00 | HLM1B N1F09 1<br>HLM1B N1F16 1 | 32 | F S | CDS<br>CDS | HB S/S-6 |
| E-0755<br>E-0755 | HLM1B S/S PROGRAM STATE FILE ENTRY 7 | | H1B 00 | HLM1B N1F63 1<br>HLM1B N1F70 1 | 32 | F S | CDS<br>CDS | HB S/S-7 |
| E-0756<br>E-0756 | HLM1B S/S PROGRAM STATE FILE ENTRY 8 | | H1B 00 | HLM1B N1F26 1<br>HLM1B N1F33 1 | 32 | F S | CDS<br>CDS | HB S/S-8 |
| E-0757<br>E-0757 | HLM1B S/S PROGRAM STATE FILE ENTRY 9 | | H1B 00 | HLM1B N1F80 1<br>HLM1B N1F87 1 | 32 | F S | CDS<br>CDS | HB S/S-9 |
| E-0758<br>E-0758 | HLM1B S/S PROGRAM STATE FILE ENTRY 10 | | H1B 00 | HLM1B N1F43 1<br>HLM1B N1F50 1 | 32 | F S | CDS<br>CDS | HB S/S-10 |
| E-0759 | HLM1B S/S PROGRAM STATE FILE ENTRY 11 | | H1B 00 | | 32 | F S | CDS | HB S/S-11 |
| E-0760 | HLM1B S/S PROGRAM STATE FILE ENTRY 12 | | H1B 00 | | 32 | F S | CDS | HB S/S-12 |
| E-0761 | HLM1B S/S PROGRAM STATE FILE ENTRY 13 | | H1B 00 | | 32 | F S | CDS | HB S/S-13 |
| E-0762 | HLM1B S/S PROGRAM STATE FILE ENTRY 14 | | H1B 00 | | 32 | F S | CDS | HB S/S-14 |
| E-0763 | HLM1B S/S PROGRAM STATE FILE ENTRY 15 | | H1B 00 | | 32 | F S | CDS | HB S/S-15 |
| E-0764 | HLM1B S/S PROGRAM STATE FILE ENTRY 16 | | H1B 00 | | 32 | F S | CDS | HB S/S-16 |
| E-0765 | HLM1B S/S PROGRAM STATE FILE ENTRY 17 | | H1B 00 | | 32 | F S | CDS | HB S/S-17 |
| E-0766 | HLM1B S/S PROGRAM STATE FILE ENTRY 18 | | H1B 00 | | 32 | F S | CDS | HB S/S-18 |
| E-0767 | HLM1B S/S PROGRAM STATE FILE ENTRY 19 | | H1B 00 | | 32 | F S | CDS | HB S/S-19 |
| E-0768 | HLM1B S/S PROGRAM STATE FILE ENTRY 20 | | H1B 00 | | 32 | F S | CDS | HB S/S-20 |
| E-0769 | HLM1B S/S PROGRAM STATE FILE ENTRY 21 | | H1B 00 | | 32 | F S | CDS | HB S/S-21 |
| E-0770 | HLM1B S/S PROGRAM STATE FILE ENTRY 22 | | H1B 00 | | 32 | F S | CDS | HB S/S-22 |
| E-0771 | HLM1B S/S PROGRAM STATE FILE ENTRY 23 | | H1B 00 | | 32 | F S | CDS | HB S/S-23 |
| E-0772 | HLM1B BUFFER BC COUNTER | | H1B 00 | | 8 | F S | CDS | HB BUF-BCS |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0773 | HLM1B BC BUFFER ENTRY 1B | | H1B 00 | | 8 | F S | CDS | HB BC-1B |
| E-0774 | HLM1B BC BUFFER ENTRY 2B | | H1B 00 | | 8 | F S | CDS | HB BC-2B |
| E-0775 | HLM1B BC BUFFER ENTRY 3B | | H1B 00 | | 8 | F S | CDS | HB BC-3B |
| E-0776 | HLM1B BC BUFFER ENTRY 4B | | H1B 00 | | 8 | F S | CDS | HB BC-4B |
| E-0777 | HLM1B BC BUFFER ENTRY 5B | | H1B 00 | | 8 | F S | CDS | HB BC-5B |
| E-0778 | HLM1B BC BUFFER ENTRY 6B | | H1B 00 | | 8 | F S | CDS | HB BC-6B |
| E-0779 | HLM1B BC BUFFER ENTRY 7B | | H1B 00 | | 8 | F S | CDS | HB BC-7B |
| E-0780 | HLM1B BC BUFFER ENTRY 8B | | H1B 00 | | 8 | F S | CDS | HB BC-8B |
| E-0781 | HLM1B BC BUFFER ENTRY 9B | | H1B 00 | | 8 | F S | CDS | HB BC-9B |
| E-0782 | HLM1B BC BUFFER ENTRY 10B | | H1B 00 | | 8 | F S | CDS | HB BC-10B |
| E-0783 | HLM1B BC BUFFER ENTRY 11B | | H1B 00 | | 8 | F S | CDS | HB BC-11B |
| E-0784 | HLM1B BC BUFFER ENTRY 12B | | H1B 00 | | 8 | F S | CDS | HB BC-12B |
| E-0785 | HLM1B BC BUFFER ENTRY 13B | | H1B 00 | | 8 | F S | CDS | HB BC-13B |
| E-0786 | HLM1B BC BUFFER ENTRY 14B | | H1B 00 | | 8 | F S | CDS | HB BC-14B |
| E-0787 | HLM1B BC BUFFER ENTRY 15B | | H1B 00 | | 8 | F S | CDS | HB BC-15B |
| E-0788 | HLM1B BC BUFFER ENTRY 16B | | H1B 00 | | 8 | F S | CDS | HB BC-16B |
| E-0789<br>E-0789 | HLM1B CAP FC COUNTER | | H1B 00 | HLM1B N1F27 3<br>HLM1B N1F34 3 | 8 | F S | CDS<br>CDS | HB CAP-FCS |
| E-0790 | HLM1B CAP BC COUNTER | | H1B 00 | | 8 | F S | CDS | HB CAP-BCS |
| E-0791<br>E-0791 | HLM1B IAP FC COUNTER | | H1B 00 | HLM1B N1F27 4<br>HLM1B N1F34 4 | 8 | F S | CDS<br>CDS | HB IAP-FCS |
| E-0792 | HLM1B IAP BC COUNTER | | H1B 00 | | 8 | F S | CDS | HB IAP-BCS |
| E-0793<br>E-0793 | HLM1B SFP PROTECTED PATH CONTROL | | H1B 00 | HLM1B N1F04 1<br>HLM1B N1F11 1 | 8 | F S | CDS<br>CDS | HB FP PPTH |
| E-0794 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-225 |
| E-0795 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-235 |
| E-0796 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-245 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0797<br>E-0797 | HLM1B UPLINK IAP COUNTER | | H1B 00 | HLM1B N1F47 3<br>HLM1B N1F54 3 | 8 | F S | CDS<br>CDS | HB U-IAP-C |
| E-0798<br>E-0798 | HLM1B UPLINK DAC COUNTER | | H1B 00 | HLM1B N1F47 4<br>HLM1B N1F54 4 | 8 | F S | CDS<br>CDS | HB-U-DAC-C |
| E-0799<br>E-0799 | HLM1B UPLINK NML COUNTER | | H1B 00 | HLM1B N1F10 1<br>HLM1B N1F17 1 | 8 | F S | CDS<br>CDS | HB U-NML-C |
| E-0800<br>E-0800 | HLM1B UPLINK IEX COUNTER | | H1B 00 | HLM1B N1F10 2<br>HLM1B N1F17 2 | 8 | F S | CDS<br>CDS | HB U-IEX-C |
| E-0801<br>E-0801 | HLM1B UPLINK MSD(P) COUNTER | | H1B 00 | HLM1B N1F10 3<br>HLM1B N1F17 3 | 8 | F S | CDS<br>CDS | HB U-MSD-P |
| E-0802<br>E-0802 | HLM1B UPLINK MSD(T) COUNTER | | H1B 00 | HLM1B N1F10 4<br>HLM1B N1F17 4 | 8 | F S | CDS<br>CDS | HB U-MSD-T |
| E-0803<br>E-0803 | HLM1B UPLINK NMSL COUNTER | | H1B 00 | HLM1B N1F64 1<br>HLM1B N1F71 1 | 8 | F S | CDS<br>CDS | HB U-MMSL |
| E-0804<br>E-0804 | HLM1B UPLINK PMSL COUNTER | | H1B 00 | HLM1B N1F64 2<br>HLM1B N1F71 2 | 8 | F S | CDS<br>CDS | HB U-PMSL |
| E-0805<br>E-0805 | HLM1B UPLINK CAP COUNTER | | H1B 00 | HLM1B N1F64 3<br>HLM1B N1F71 3 | 8 | F S | CDS<br>CDS | HB U-CAP-C |
| E-0806<br>E-0806 | HLM1B UPLINK NML/NMSL ERROR COUNTER | | H1B 00 | HLM1B N1F64 4<br>HLM1B N1F71 4 | 8 | F S | CDS<br>CDS | HB U-N-ER |
| E-0807<br>E-0807 | HLM1B UPLINK MSL ERROR COUNTER | | H1B 00 | HLM1B N1F27 1<br>HLM1B N1F34 1 | 8 | F S | CDS<br>CDS | HB U-MS-ER |
| E-0808 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-365 |
| E-0809 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-375 |
| E-0810 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-385 |
| E-0811 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-395 |
| E-0812 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-405 |
| E-0813 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-415 |
| E-0814 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-425 |
| E-0815 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-435 |
| E-0816 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-445 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0817 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-455 |
| E-0818 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-465 |
| E-0819 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-475 |
| E-0820 | HLM1B SPARE | | H1B 00 | | 8 | F S | CDS | HB SPR-485 |
| E-0821 | HLM1B SYSTEM DIAGNOSTIC MESSAGE COUNTER | | H1B 00 | HLM1B N1S03 1 | 8 | F S | CDS | HB SDIAG-C |
| E-0821 | | | | HLM1B N1S10 1 | | | | |
| E-0821 | | | | HLM1B N1S17 1 | | | | |
| E-0821 | | | | HLM1B N1S24 1 | | | | |
| E-0821 | | | | HLM1B N1S31 1 | | | | |
| E-0821 | | | | HLM1B N1S38 1 | | | | |
| E-0821 | | | | HLM1B N1S45 1 | | | | |
| E-0821 | | | | HLM1B N1S52 1 | | | | |
| E-0821 | | | | HLM1B N1S59 1 | | | | |
| E-0821 | | | | HLM1B N1S66 1 | | | | |
| E-0821 | | | | HLM1B N1S73 1 | | | | |
| E-0821 | | | | HLM1B N1S80 1 | | | | |
| E-0821 | | | | HLM1B N1S87 1 | | | | |
| E-0822 | HLM1B CDS DIAGNOSTIC MESSAGE COUNTER | | H1B 00 | HLM1B N1S01 1 | 8 | F S | CDS | HB CDIAG-C |
| E-0822 | | | | HLM1B N1S08 1 | | | | |
| E-0822 | | | | HLM1B N1S15 1 | | | | |
| E-0822 | | | | HLM1B N1S22 1 | | | | |
| E-0822 | | | | HLM1B N1S29 1 | | | | |
| E-0822 | | | | HLM1B N1S36 1 | | | | |
| E-0822 | | | | HLM1B N1S43 1 | | | | |
| E-0822 | | | | HLM1B N1S50 1 | | | | |
| E-0822 | | | | HLM1B N1S57 1 | | | | |
| E-0822 | | | | HLM1B N1S64 1 | | | | |
| E-0822 | | | | HLM1B N1S71 1 | | | | |
| E-0822 | | | | HLM1B N1S78 1 | | | | |
| E-0822 | | | | HLM1B N1S85 1 | | | | |
| E-0823 | HLM1B MARK FC COUNTER | | H1B 00 | | 8 | F S | CDS | HB MARK-FC |
| E-0824 | HLM1B S/C THRUSTER TEMPERATURE ENABLE (PRIV) | | H1B 00 | | 8 | F S | CDS | HB P-THR-E |
| E-0825 | HLM1B CAP START LINK | | H1B 00 | | 8 | F S | CDS | HB CAP-LNK |
| E-0826 | HLM1B F/P START LINK | | H1B 00 | | 8 | F S | CDS | HB F/P-LNK |
| E-0827 | HLM1B IAP START LINK | | H1B 00 | | 8 | F S | CDS | HB IAP-LNK |
| E-0828 | HLM1B S/S START LINK | | H1B 00 | | 8 | F S | CDS | HB S/S-LNK |
| E-0829 | HLM1B UPLINK NMSL/PMSL SEQUENCE NUMBER | | H1B 00 | HLM1B N1F27 2 | 8 | F S | CDS | HB U-SEQNO |
| E-0829 | | | | HLM1B N1F34 2 | | | CDS | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0830 | HLM1B UPLINK CHECKSTATE | | H1B 00 | | 8 | F S | CDS | HB U-CHKST |
| E-0831 | HLM1B MISSING MESSAGE LIST 1 | | H1B 00 | | 8 | F S | CDS | HB MSGL-1 |
| E-0832 | HLM1B MISSING MESSAGE LIST 2 | | H1B 00 | | 8 | F S | CDS | HB MSGL-2 |
| E-0833 | HLM1B MISSING MESSAGE LIST 3 | | H1B 00 | | 8 | F S | CDS | HB MSGL-3 |
| E-0834 | HLM1B MISSING MESSAGE LIST 4 | | H1B 00 | | 8 | F S | CDS | HB MSGL-4 |
| E-0835 | HLM1B MISSING MESSAGE LIST 5 | | H1B 00 | | 8 | F S | CDS | HB MSGL-5 |
| E-0836 | HLM1B MISSING MESSAGE LIST 6 | | H1B 00 | | 8 | F S | CDS | HB MSGL-6 |
| E-0837 | HLM1B MISSING MESSAGE LIST 7 | | H1B 00 | | 8 | F S | CDS | HB MSGL-7 |
| E-0838 | HLM1B MISSING MESSAGE LIST 8 | | H1B 00 | | 8 | F S | CDS | HB MSGL-8 |
| E-0839 | HLM1B MISSING MESSAGE LIST 9 | | H1B 00 | | 8 | F S | CDS | HB MSGL-9 |
| E-0840 | HLM1B MISSING MESSAGE LIST 10 | | H1B 00 | | 8 | F S | CDS | HB MSGL-10 |
| E-0841 | HLM1B MISSING MESSAGE LIST 11 | | H1B 00 | | 8 | F S | CDS | HB MSGL-11 |
| E-0842 | HLM1B MISSING MESSAGE LIST 12 | | H1B 00 | | 8 | F S | CDS | HB MSGL-12 |
| E-0843 | HLM1B MISSING MESSAGE LIST 13 | | H1B 00 | | 8 | F S | CDS | HB MSGL-13 |
| E-0844 | HLM1B MISSING MESSAGE LIST 14 | | H1B 00 | | 8 | F S | CDS | HB MSGL-14 |
| E-0845 | HLM1B MISSING MESSAGE LIST 15 | | H1B 00 | | 8 | F S | CDS | HB MSGL-15 |
| E-0846 | HLM1B MISSING MESSAGE LIST 16 | | H1B 00 | | 8 | F S | CDS | HB MSGL-16 |
| E-0847 | HLM1B MISSING MESSAGE LIST 17 | | H1B 00 | | 8 | F S | CDS | HB MSGL-17 |
| E-0848 | HLM1B MISSING MESSAGE LIST 18 | | H1B 00 | | 8 | F S | CDS | HB MSGL-18 |
| E-0849 | HLM1B MISSING MESSAGE LIST 19 | | H1B 00 | | 8 | F S | CDS | HB MSGL-19 |
| E-0850 | HLM1B MISSING MESSAGE LIST 20 | | H1B 00 | | 8 | F S | CDS | HB MSGL-20 |
| E-0851 | HLM1B MISSING MESSAGE LIST 21 | | H1B 00 | | 8 | F S | CDS | HB MSGL-21 |
| E-0852 | HLM1B MISSING MESSAGE LIST 22 | | H1B 00 | | 8 | F S | CDS | HB MSGL-22 |
| E-0853 | HLM1B MISSING MESSAGE LIST 23 | | H1B 00 | | 8 | F S | CDS | HB MSGL-23 |
| E-0854 | HLM1B MISSING MESSAGE LIST 24 | | H1B 00 | | 8 | F S | CDS | HB MSGL-24 |
| E-0855 | HLM1B MISSING MESSAGE LIST 25 | | H1B 00 | | 8 | F S | CDS | HB MSGL-25 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0856 | HLM1B MISSING MESSAGE LIST 26 | | H1B 00 | | 8 | F S | CDS | HB MSGL-26 |
| E-0857 | HLM1B MISSING MESSAGE LIST 27 | | H1B 00 | | 8 | F S | CDS | HB MSGL-27 |
| E-0858 | HLM1B MISSING MESSAGE LIST 28 | | H1B 00 | | 8 | F S | CDS | HB MSGL-28 |
| E-0859 | HLM1B MISSING MESSAGE LIST 29 | | H1B 00 | | 8 | F S | CDS | HB MSGL-29 |
| E-0860 | HLM1B MISSING MESSAGE LIST 30 | | H1B 00 | | 8 | F S | CDS | HB MSGL-30 |
| E-0861 | HLM1B MISSING MESSAGE LIST 31 | | H1B 00 | | 8 | F S | CDS | HB MSGL-31 |
| E-0862 | HLM1B MISSING MESSAGE LIST 32 | | H1B 00 | | 8 | F S | CDS | HB MSGL-32 |
| E-0865 | LLM1B DMS FCS EXECUTED COUNTER | | L1B 94 | LLM1B N1D70 1 | 8 | F S | CDS | LB DMSFCEX |
| E-0866 | LLM1B DMS FCS REJECTED COUNTER | | L1B 95 | LLM1B N1D70 2 | 8 | F S | CDS | LB DMSFCRJ |
| E-0867 | LLM1B DMS CMDS SENT COUNTER | | L1B 96 | | 8 | F S | CDS | LB DMSSENT |
| E-0868 | LLM1B LAST DMS COMMAND SENT | | L1B 97 | | 8 | F S | CDS | LB DMSLAST |
| E-0869<br>E-0869 | LLM1B EPD/PLS ENABLE STATUS | | L1B 98 | LLM1B N1D62 2<br>LLM1B N1D72 2 | 8 | F S | CDS<br>CDS | LB SCI-EN |
| E-0870 | LLM1B LAST CC/DC RIM COUNT MSB/ISB | | L1B 80:81 | LLM1B N1D79 1 | 16 | F S | CDS | LB CD-RIM1 |
| E-0871 | LLM1B LAST CC/DC RIM COUNT LSB | | L1B 82 | LLM1B N1D42 1 | 8 | F S | CDS | LB CD-RIM2 |
| E-0872 | LLM1B LAST CC/DC MOD91 | | L1B 83 | LLM1B N1D42 2 | 8 | F S | CDS | LB CD-M91 |
| E-0873 | LLM1B LAST CC/DC MOD10 | | L1B 84 | LLM1B N1D05 1 | 8 | F S | CDS | LB CD-M10 |
| E-0874 | LLM1B LAST CC/DC POINTER | | L1B 85 | LLM1B N1D05 2 | 8 | F S | CDS | LB CD-PNTR |
| E-0875 | LLM1B CC/DC BUFFER ENTRY 1 | | L1B 86:87 | LLM1B N1D59 1 | 16 | F S | CDS | LB CD-1 |
| E-0876 | LLM1B CC/DC BUFFER ENTRY 2 | | L1B 88:89 | LLM1B N1D22 1 | 16 | F S | CDS | LB CD-2 |
| E-0877 | LLM1B CC/DC BUFFER ENTRY 3 | | L1B 8A:8B | LLM1B N1D76 1 | 16 | F S | CDS | LB CD-3 |
| E-0878 | LLM1B CC/DC BUFFER ENTRY 4 | | L1B 8C:8D | LLM1B N1D39 1 | 16 | F S | CDS | LB CD-4 |
| E-0879 | LLM1B CC/DC BUFFER ENTRY 5 | | L1B 8E:8F | LLM1B N1D02 1 | 16 | F S | CDS | LB CD-5 |
| E-0880 | LLM1B CC/DC BUFFER ENTRY 6 | | L1B 90:91 | LLM1B N1D56 1 | 16 | F S | CDS | LB CD-6 |
| E-0881 | LLM1B CC/DC BUFFER ENTRY 7 | | L1B 92:93 | LLM1B N1D19 1 | 16 | F S | CDS | LB CD-7 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0882<br>E-0882 | LLM1B PRIV CC/DC EXECUTED COUNTER | | L1B 9E | LLM1B N1D28 1<br>LLM1B N1D38 1 | 8 | F S | CDS<br>CDS | LB CD-P-EX |
| E-0883<br>E-0883 | LLM1B NON-PRIV CC/DC EXECUTED COUNTER | | L1B 9F | LLM1B N1D28 2<br>LLM1B N1D38 2 | 8 | F S | CDS<br>CDS | LB CD-N-EX |
| E-0884<br>E-0884 | LLM1B PRIV CC/DC (POWER CODE) QUEUED COUNTER | | L1B A0 | LLM1B N1D01 1<br>LLM1B N1D82 1 | 8 | F S | CDS<br>CDS | LB CD-P-Q |
| E-0885<br>E-0885 | LLM1B NON-PRIV CC/DC (POWER CODE) QUEUED COUNTER | | L1B A1 | LLM1B N1D01 2<br>LLM1B N1D82 2 | 8 | F S | CDS<br>CDS | LB CD-N-Q |
| E-0886<br>E-0886 | LLM1B TEMPERATURE CC/DC QUEUED COUNTER | | L1B A2 | LLM1B N1D45 1<br>LLM1B N1D55 1 | 8 | F S | CDS<br>CDS | LB CD-T-Q |
| E-0887<br>E-0887 | LLM1B DAC CC/DC QUEUED COUNTER | | L1B A3 | LLM1B N1D45 2<br>LLM1B N1D55 2 | 8 | F S | CDS<br>CDS | LB CD-DACQ |
| E-0888<br>E-0888 | LLM1B AACS POWER CODES EXECUTED COUNTER | | L1B A4 | LLM1B N1D08 1<br>LLM1B N1D18 1 | 8 | F S | CDS<br>CDS | LB PC-E-C |
| E-0889<br>E-0889 | LLM1B AACS POWER CODES REJECTED COUNTER | | L1B A5 | LLM1B N1D08 2<br>LLM1B N1D18 2 | 8 | F S | CDS<br>CDS | LB PC-RJ-C |
| E-0890<br>E-0890 | LLM1B EPD/OLS CC/DC'S QUEUED COUNTER | | L1B A6 | LLM1B N1D62 1<br>LLM1B N1D72 1 | 8 | F S | CDS<br>CDS | LB CD-SCIQ |
| E-0891 | LLM1B LAST VALID AACS POWER CODE | | L1B A7 | | 8 | F S | CDS | LB PC-LAST |
| E-0892 | LLM1B FC'S RECEIVED COUNTER | | L1B A8 | | 8 | F S | CDS | LB FC-RC-C |
| E-0893<br>E-0893 | LLM1B FC'S EXECUTED COUNTER | | L1B A9 | LLM1B N1D25 1<br>LLM1B N1D35 1 | 8 | F S | CDS<br>CDS | LB FC-EX-C |
| E-0894 | LLM1B LAST VALID FC ID | | L1B AA | | 8 | F S | CDS | LB FC-LAST |
| E-0895<br>E-0895 | LLM1B FC'S REJECTED COUNTER | | L1B AB | LLM1B N1D25 2<br>LLM1B N1D35 2 | 8 | F S | CDS<br>CDS | LB FC-RJ-C |
| E-0896 | LLM1B CHANGE PACKET SELECTION COUNTER | | L1B AC | LLM1B N1D29 1 | 8 | F S | CDS | LB PKT-SEL |
| E-0897 | LLM1B BUS TRANSACTIONS SENT COUNTER | | L1B AD | | 8 | F S | CDS | LB BT-SENT |
| E-0898 | LLM1B CHANGE PACKET TIMING COUNTER | | L1B AE | LLM1B N1D66 1 | 8 | F S | CDS | LB PKT-TMG |
| E-0899 | LLM1B UPDATE PACKET MENU COUNTER | | L1B AF | LLM1B N1D66 2 | 8 | F S | CDS | LB MENU |
| E-0900 | LLM1B AACS POWER CODES RECEIVED COUNTER | | L1B B0:B1 | LLM1B N1D83 1 | 16 | F S | CDS | LB PC-RC-C |
| E-0901 | LLM1B FLAG STATUS | | L1B B6 | | 8 | F S | CDS | LB FLAG-ST |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0902<br>E-0902 | LLM1B CDS DIAGNOSTIC MESSAGE COUNTER | | L1B B7 | LLM1B N1D31 1<br>LLM1B N1D41 1 | 8 | F S | CDS<br>CDS | LB CDIAG-C |
| E-0903 | LLM1B CDS DIAGNOSTIC MSG QUEUE ENTRY 1 | | L1B B8:B9 | | 16 | F S | CDS | LB CDSDIA1 |
| E-0904 | LLM1B CDS DIAGNOSTIC MSG QUEUE ENTRY 2 | | L1B BA:BB | | 16 | F S | CDS | LB CDSDIA2 |
| E-0905 | LLM1B CDS DIAGNOSTIC MSG QUEUE ENTRY 3 | | L1B BC:BD | | 16 | F S | CDS | LB CDSDIA3 |
| E-0906 | LLM1B CDS DIAGNOSTIC MSG QUEUE ENTRY 4 | | L1B BE:BF | | 16 | F S | CDS | LB CDSDIA4 |
| E-0907 | LLM1B SPARE | | L1B C0 | | 8 | F S | CDS | LB SPR-731 |
| E-0908<br>E-0908 | LLM1B SYSTEM DIAGNOSTIC MESSAGE COUNTER | | L1B C1 | LLM1B N1D31 2<br>LLM1B N1D41 2 | 8 | F S | CDS<br>CDS | LB SDIAG-C |
| E-0909 | LLM1B SYS DIAGNOSTIC MSG QUEUE ENTRY 1 | | L1B C2:C3 | | 16 | F S | CDS | LB SYSDIA1 |
| E-0910 | LLM1B SYS DIAGNOSTIC MSG QUEUE ENTRY 2 | | L1B C4:C5 | | 16 | F S | CDS | LB SYSDIA2 |
| E-0911 | LLM1B SYS DIAGNOSTIC MSG QUEUE ENTRY 3 | | L1B C6:C7 | | 16 | F S | CDS | LB SYSDIA3 |
| E-0912 | LLM1B SYS DIAGNOSTIC MSG QUEUE ENTRY 4 | | L1B C8:C9 | | 16 | F S | CDS | LB SYSDIA4 |
| E-0913<br>E-0913 | LLM1B ERROR WORD-1 IOSL-0 | | L1B CE | LLM1B N1D04 1<br>LLM1B N1D85 1 | 8 | F S | CDS<br>CDS | LB IOSL-0 |
| E-0914<br>E-0914 | LLM1B ERROR WORD-2 IOSL-1 | | L1B CF | LLM1B N1D04 2<br>LLM1B N1D85 2 | 8 | F S | CDS<br>CDS | LB IOSL-1 |
| E-0915<br>E-0915 | LLM1B DAC MAP PART-1 | | L1B D0:D1 | LLM1B N1D11 1<br>LLM1B N1D21 1 | 16 | F S | CDS<br>CDS | LB DACMAP1 |
| E-0916<br>E-0916 | LLM1B DAC MAP PART-2 | | L1B D2:D3 | LLM1B N1D65 1<br>LLM1B N1D75 1 | 16 | F S | CDS<br>CDS | LB DACMAP2 |
| E-0917<br>E-0917 | LLM1B DACS RECEIVED COUNTER | | L1B D4 | LLM1B N1D48 1<br>LLM1B N1D58 1 | 8 | F S | CDS<br>CDS | LB DAC-RC |
| E-0918<br>E-0918 | LLM1B DACS REJECTED COUNTER | | L1B D5 | LLM1B N1D48 2<br>LLM1B N1D58 2 | 8 | F S | CDS<br>CDS | LB DAC-RJ |
| E-0919 | LLM1B DAC BC COUNTER | | L1B D6 | LLM1B N1D33 1 | 8 | F S | CDS | LB DAC-BCS |
| E-0920 | LLM1B DAC CHECKSUM ERROR COUNTER | | L1B D7 | | 8 | F S | CDS | LB DAC-ER |
| E-0921 | LLM1B S/C TEMPERATURE ENABLE STATUS (PRIV) | | L1B B4 | LLM1B N1D46 1 | 8 | F S | CDS | LB P-TMP-E |
| E-0922 | LLM1B MOS TEMPERATURE ENABLE STATUS (NON-PRIV) | | L1B B5 | LLM1B N1D46 2 | 8 | F S | CDS | LB N-TMP-E |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0923 | LLM1B DMS TAPE POSITION ESTIMATE MSB | | L1B FD | LLM1B T1S09 | 8 | F S | CDS | LB DMS-MSB |
| E-0923 | | | | LLM1B T1S10 | | | CDS | |
| E-0923 | | | | LLM1B T1S11 | | | CDS | |
| E-0924 | LLM1B DMS TAPE POSITION ESTIMATE LSB | | L1B FE | LLM1B T2S03 | 8 | F S | CDS | LB DMS-LSB |
| E-0924 | | | | LLM1B T2S04 | | | CDS | |
| E-0924 | | | | LLM1B T2S05 | | | CDS | |
| E-0924 | | | | LLM1B T2S09 | | | CDS | |
| E-0924 | | | | LLM1B T2S10 | | | CDS | |
| E-0924 | | | | LLM1B T2S11 | | | CDS | |
| E-0925 | LLM1B MEMORY COPY FC COUNTER | | L1B 99 | LLM1B N1D33 2 | 8 | F S | CDS | LB COPY-FC |
| E-0926 | LLM1B TEMPERATURE BC COUNTER | | L1B 9A | LLM1B N1D87 1 | 8 | F S | CDS | LB TMP-BCS |
| E-0927 | LLM1B MEMORY TWEAK FC COUNTER | | L1B 9B | LLM1B N1D87 2 | 8 | F S | CDS | LB TWEAKS |
| E-0928 | LLM1B CHECKSUM RESULT | | L1B 9C | LLM1B N1D50 1 | 8 | F S | CDS | LB CHK-SUM |
| E-0929 | LLM1B CHECKSUM COUNTER | | L1B 9D | LLM1B N1D50 2 | 8 | F S | CDS | LB CHKSUMC |
| E-0930 | LLM2B LAST CC/DC RIM COUNT MSB/ISB | | L2B 80:81 | LLM2B N1D84 1 | 16 | F S | CDS | LD CD-RIM1 |
| E-0931 | LLM2B LAST CC/DC RIM COUNT LSB | | L2B 82 | LLM2B N1D47 1 | 8 | F S | CDS | LD CD-RIM2 |
| E-0932 | LLM2B LAST CC/DC MOD91 | | L2B 83 | LLM2B N1D47 2 | 8 | F S | CDS | LD CD-M91 |
| E-0933 | LLM2B LAST CC/DC MOD10 | | L2B 84 | LLM2B N1D10 1 | 8 | F S | CDS | LD CD-M10 |
| E-0934 | LLM2B LAST CC/DC POINTER | | L2B 85 | LLM2B N1D10 2 | 8 | F S | CDS | LD CD-PNTR |
| E-0935 | LLM2B CC/DC BUFFER ENTRY 1 | | L2B 86:87 | LLM2B N1D64 1 | 16 | F S | CDS | LD CD-1 |
| E-0936 | LLM2B CC/DC BUFFER ENTRY 2 | | L2B 88:89 | LLM2B N1D27 1 | 16 | F S | CDS | LD CD-2 |
| E-0937 | LLM2B CC/DC BUFFER ENTRY 3 | | L2B 8A:8B | LLM2B N1D81 1 | 16 | F S | CDS | LD CD-3 |
| E-0938 | LLM2B CC/DC BUFFER ENTRY 4 | | L2B 8C:8D | LLM2B N1D44 1 | 16 | F S | CDS | LD CD-4 |
| E-0939 | LLM2B CC/DC BUFFER ENTRY 5 | | L2B 8E:8F | LLM2B N1D07 1 | 16 | F S | CDS | LD CD-5 |
| E-0940 | LLM2B CC/DC BUFFER ENTRY 6 | | L2B 90:91 | LLM2B N1D61 1 | 16 | F S | CDS | LD CD-6 |
| E-0941 | LLM2B CC/DC BUFFER ENTRY 7 | | L2B 92:93 | LLM2B N1D24 1 | 16 | F S | CDS | LD CD-7 |
| E-0942 | LLM2B PRIV CC/DC EXECUTED COUNTER | | L2B 9E | LLM2B N1D02 1 | 8 | F S | CDS | LD CD-P-EX |
| E-0942 | | | | LLM2B N1D12 1 | | | CDS | |
| E-0943 | LLM2B NON-PRIV CC/DC EXECUTED COUNTER | | L2B 9F | LLM2B N1D02 2 | 8 | F S | CDS | LD CD-N-EX |
| E-0943 | | | | LLM2B N1D12 2 | | | CDS | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0944<br>E-0944 | LLM2B PRIV CC/DC/(POWER CODE) QUEUED COUNTER | | L2B A0 | LLM2B N1D56 1<br>LLM2B N1D66 1 | 8 | F S | CDS<br>CDS | LD CD-P-Q |
| E-0945<br>E-0945 | LLM2B NON-PRIV CC/DC/(POWER CODE) QUEUED COUNTER | | L2B A1 | LLM2B N1D56 2<br>LLM2B N1D66 2 | 8 | F S | CDS<br>CDS | LD CD-N-Q |
| E-0946<br>E-0946 | LLM2B TEMPERATURE CC/DC QUEUED COUNTER | | L2B A2 | LLM2B N1D19 1<br>LLM2B N1D29 1 | 8 | F S | CDS<br>CDS | LD CD-T-Q |
| E-0947<br>E-0947 | LLM2B DAC CC/DC QUEUED COUNTER | | L2B A3 | LLM2B N1D19 2<br>LLM2B N1D29 2 | 8 | F S | CDS<br>CDS | LD CD-DACQ |
| E-0948<br>E-0948 | LLM2B AACS POWER CODES EXECUTED COUNTER | | L2B A4 | LLM2B N1D06 1<br>LLM2B N1D87 1 | 8 | F S | CDS<br>CDS | LD PC-E-C |
| E-0949<br>E-0949 | LLM2B AACS POWER CODES REJECTED COUNTER | | L2B A5 | LLM2B N1D06 2<br>LLM2B N1D87 2 | 8 | F S | CDS<br>CDS | LD PC-RJ-C |
| E-0950 | LLM2B EPD/PLS CC/DC QUEUED COUNTER (DUMMY) | | L2B A6 | | 8 | F S | CDS | LD CD-SCIQ |
| E-0951 | LLM2B LAST VALID AACS POWER CODE | | L2B A7 | | 8 | F S | CDS | LD PC-LAST |
| E-0952 | LLM2B FC'S RECEIVED COUNTER | | L2B A8 | | 8 | F S | CDS | LD FC-RC-C |
| E-0953<br>E-0953 | LLM2B FC'S EXECUTED COUNTER | | L2B A9 | LLM2B N1D50 1<br>LLM2B N1D60 1 | 8 | F S | CDS<br>CDS | LD FC-EX-C |
| E-0954 | LLM2B LAST VALID FC ID | | L2B AA | | 8 | F S | CDS | LD FC-LAST |
| E-0955<br>E-0955 | LLM2B FC'S REJECTED COUNTER | | L2B AB | LLM2B N1D50 2<br>LLM2B N1D60 2 | 8 | F S | CDS<br>CDS | LD FC-RJ-C |
| E-0956 | LLM2B CHANGE PACKET SELECTION COUNTER | | L2B AC | LLM2B N1D45 1 | 8 | F S | CDS | LD PKT-SEL |
| E-0957 | LLM2B BUS TRANSACTIONS SENT COUNTER (DUMMY) | | L2B AD | | 8 | F S | CDS | LD BT-SENT |
| E-0958 | LLM2B CHANGE PACKET TIMING COUNTER | | L2B AE | LLM2B N1D08 1 | 8 | F S | CDS | LD PKT-TMG |
| E-0959 | LLM2B UPDATE PACKET MENU COUNTER | | L2B AF | LLM2B N1D08 2 | 8 | F S | CDS | LD MENU |
| E-0960 | LLM2B AACS POWER CODES RECEIVED COUNTER | | L2B B0:B1 | LLM2B N1D62 1 | 16 | F S | CDS | LD PC-RC-C |
| E-0961 | LLM2B FLAG STATUS | | L2B B6 | | 8 | F S | CDS | LD FLAG-ST |
| E-0962<br>E-0962 | LLM2B CDS DIAGNOSTIC MESSAGE COUNTER | | L2B B7 | LLM2B N1D28 1<br>LLM2B N1D38 1 | 8 | F S | CDS<br>CDS | LD CDIAG-C |
| E-0963 | LLM2B CDS DIAGNOSTIC MSG QUEUE ENTRY 1 | | L2B B8:B9 | | 16 | F S | CDS | LD CDSDIA1 |
| E-0964 | LLM2B CDS DIAGNOSTIC MSG QUEUE ENTRY 2 | | L2B BA:BB | | 16 | F S | CDS | LD CDSDIA2 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-0965 | LLM2B CDS DIAGNOSTIC MSG QUEUE ENTRY 3 | | L2B BC:BD | | 16 | F S | CDS | LD CDSDIA3 |
| E-0966 | LLM2B CDS DIAGNOSTIC MSG QUEUE ENTRY 4 | | L2B BE:BF | | 16 | F S | CDS | LD CDSDIA4 |
| E-0967 | LLM2B SPARE | | L2B C0 | | 8 | F S | CDS | LD SPR-731 |
| E-0968 | LLM2B SYSTEM DIAGNOSTIC MESSAGE COUNTER | | L2B C1 | LLM2B N1D28 2 | 8 | F S | CDS | LD SDIAG-C |
| E-0968 | | | | LLM2B N1D38 2 | | | CDS | |
| E-0969 | LLM2B SYS DIAGNOSTIC MSG QUEUE ENTRY 1 | | L2B C2:C3 | | 16 | F S | CDS | LD SYSDIA1 |
| E-0970 | LLM2B SYS DIAGNOSTIC MSG QUEUE ENTRY 2 | | L2B C4:C5 | | 16 | F S | CDS | LD SYSDIA2 |
| E-0971 | LLM2B SYS DIAGNOSTIC MSG QUEUE ENTRY 3 | | L2B C6:C7 | | 16 | F S | CDS | LD SYSDIA3 |
| E-0972 | LLM2B SYS DIAGNOSTIC MSG QUEUE ENTRY 4 | | L2B C8:C9 | | 16 | F S | CDS | LD SYSDIA4 |
| E-0973 | LLM2B ERROR WORD-1 IOSL-0 | | L2B CE | LLM2B N1D01 1 | 8 | F S | CDS | LD IOSL-0 |
| E-0973 | | | | LLM2B N1D82 1 | | | CDS | |
| E-0974 | LLM2B ERROR WORD-2 IOSL-1 | | L2B CF | LLM2B N1D01 2 | 8 | F S | CDS | LD IOSL-1 |
| E-0974 | | | | LLM2B N1D82 2 | | | CDS | |
| E-0975 | LLM2B DAC MAP PART-1 | | L2B D0:D1 | LLM2B N1D22 1 | 16 | F S | CDS | LD DACMAP1 |
| E-0975 | | | | LLM2B N1D86 1 | | | CDS | |
| E-0976 | LLM2B DAC MAP PART-2 | | L2B D2:D3 | LLM2B N1D49 1 | 16 | F S | CDS | LD DACMAP2 |
| E-0976 | | | | LLM2B N1D76 1 | | | CDS | |
| E-0977 | LLM2B DACS RECEIVED COUNTER | | L2B D4 | LLM2B N1D32 1 | 8 | F S | CDS | LD DAC-RC |
| E-0977 | | | | LLM2B N1D59 1 | | | CDS | |
| E-0978 | LLM2B DACS REJECTED COUNTER | | L2B D5 | LLM2B N1D32 2 | 8 | F S | CDS | LD DAC-RJ |
| E-0978 | | | | LLM2B N1D59 2 | | | CDS | |
| E-0979 | LLM2B DAC BC COUNTER (DUMMY) | | L2B D6 | LLM2B N1D45 2 | 8 | F S | CDS | LD DAC-BCS |
| E-0980 | LLM2B DAC CHECKSUM ERROR COUNTER | | L2B D7 | | 8 | F S | CDS | LD DAC-ER |
| E-0981 | LLM2B S/C TEMPERATURE ENABLE STATUS (PRIV) | | L2B B4 | | 8 | F S | CDS | LD P-TMP-E |
| E-0982 | LLM2B MOS TEMPERATURE ENABLE STATUS (NON-PRIV) | | L2B B5 | | 8 | F S | CDS | LD N-TMP-E |
| #E-1001 | LLM2B PLAYBACK TABLE SEGMENT NUMBER (* VALID IN STR A ONLY) | | CDS BUS | LLM2B N1D00 1 | 8 | ? ? | CDS | LD PBT SEG |
| E-1001 | | | | LLM2B N1D13 1 | | | CDS | |
| E-1001 | | | | LLM2B N1D26 1 | | | CDS | |
| E-1001 | | | | LLM2B N1D39 1 | | | CDS | |
| E-1001 | | | | LLM2B N1D52 1 | | | CDS | |
| E-1001 | | | | LLM2B N1D65 1 | | | CDS | |
| E-1001 | | | | LLM2B N1D78 1 | | | CDS | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE | POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|---|
| #E-1002 | LLM2B PLAYBACK TABLE ENTRY NUMBER (* VALID IN STR A ONLY) | | CDS | BUS | LLM2B N1D00 2 | 8 | ? ? | CDS | LD PBT ENT |
| E-1002 | | | | | LLM2B N1D13 2 | | | CDS | |
| E-1002 | | | | | LLM2B N1D26 2 | | | CDS | |
| E-1002 | | | | | LLM2B N1D39 2 | | | CDS | |
| E-1002 | | | | | LLM2B N1D52 2 | | | CDS | |
| E-1002 | | | | | LLM2B N1D65 2 | | | CDS | |
| E-1002 | | | | | LLM2B N1D78 2 | | | CDS | |
| #E-1003 | CDS DESPUN POR COUNT (CDS B) | | CDS | BUS | LLM2B N1D09 2 | 8 | ? ? | CDS | LD DS PORC |
| #E-1004 | CDS PLAYBACK MANAGER STATUS (CDS B) | | CDS | BUS | LLM2B N1D14 2 | 8 | ? ? | CDS | LD PBMGR S |
| E-1004 | | | | | LLM2B N1D33 2 | | | CDS | |
| E-1004 | | | | | LLM2B N1D69 2 | | | CDS | |
| #E-1005 | HLM1B DBUM1A ERROR WORD (A of E-0672 A:B) | | H1B | 00 | HLM1B N1F40 4 | 8 | F S | CDS | HB D1A ERR |
| #E-1006 | HLM1B DBUM1B ERROR WORD (B of E-0672 A:B) | | H1B | 00 | HLM1B N1F57 4 | 8 | F S | CDS | HB D1B ERR |
| #E-1007 | HLM1B F/P RESPONSE INACTIVE ENABLES GPV112 (A of E-0704 A:B:C:) | | H1B | 00 | HLM1B N1S06 1 | 8 | F S | CDS | HB GPV-112 |
| E-1007 | | | | | HLM1B N1S13 1 | | | CDS | |
| E-1007 | | | | | HLM1B N1S20 1 | | | CDS | |
| E-1007 | | | | | HLM1B N1S27 1 | | | CDS | |
| E-1007 | | | | | HLM1B N1S34 1 | | | CDS | |
| E-1007 | | | | | HLM1B N1S41 1 | | | CDS | |
| E-1007 | | | | | HLM1B N1S48 1 | | | CDS | |
| E-1007 | | | | | HLM1B N1S55 1 | | | CDS | |
| E-1007 | | | | | HLM1B N1S62 1 | | | CDS | |
| E-1007 | | | | | HLM1B N1S69 1 | | | CDS | |
| E-1007 | | | | | HLM1B N1S76 1 | | | CDS | |
| E-1007 | | | | | HLM1B N1S83 1 | | | CDS | |
| E-1007 | | | | | HLM1B N1S90 1 | | | CDS | |
| #E-1008 | HLM1B F/P RESPONSE INACTIVE ENABLES GPV113 (B of E-0704 A:B:C:) | | H1B | 00 | HLM1B N1S04 1 | 8 | F S | CDS | HB GPV-113 |
| E-1008 | | | | | HLM1B N1S11 1 | | | CDS | |
| E-1008 | | | | | HLM1B N1S18 1 | | | CDS | |
| E-1008 | | | | | HLM1B N1S25 1 | | | CDS | |
| E-1008 | | | | | HLM1B N1S32 1 | | | CDS | |
| E-1008 | | | | | HLM1B N1S39 1 | | | CDS | |
| E-1008 | | | | | HLM1B N1S46 1 | | | CDS | |
| E-1008 | | | | | HLM1B N1S53 1 | | | CDS | |
| E-1008 | | | | | HLM1B N1S60 1 | | | CDS | |
| E-1008 | | | | | HLM1B N1S67 1 | | | CDS | |
| E-1008 | | | | | HLM1B N1S74 1 | | | CDS | |
| E-1008 | | | | | HLM1B N1S81 1 | | | CDS | |
| E-1008 | | | | | HLM1B N1S88 1 | | | CDS | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE | POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|---|
| #E-1009 | HLM1B F/P RESPONSE INACTIVE ENABLES GPV114 (C of E-0704 A:B:C:) | | H1B | 00 | HLM1B N1S02 1 | 8 | F S | CDS | HB GPV-114 |
| E-1009 | | | | | HLM1B N1S09 1 | | | CDS | |
| E-1009 | | | | | HLM1B N1S16 1 | | | CDS | |
| E-1009 | | | | | HLM1B N1S23 1 | | | CDS | |
| E-1009 | | | | | HLM1B N1S30 1 | | | CDS | |
| E-1009 | | | | | HLM1B N1S37 1 | | | CDS | |
| E-1009 | | | | | HLM1B N1S44 1 | | | CDS | |
| E-1009 | | | | | HLM1B N1S51 1 | | | CDS | |
| E-1009 | | | | | HLM1B N1S58 1 | | | CDS | |
| E-1009 | | | | | HLM1B N1S65 1 | | | CDS | |
| E-1009 | | | | | HLM1B N1S72 1 | | | CDS | |
| E-1009 | | | | | HLM1B N1S79 1 | | | CDS | |
| E-1009 | | | | | HLM1B N1S86 1 | | | CDS | |
| #E-1010 | HLM1B VCDUs IN MULTI-USE BUFFER (* VALID IN STR A ONLY) | | CDS | BUS | HLM1B N1F37 1 | 8 | ? ? | CDS | HB VC MBC |
| E-1010 | | | | | HLM1B N1F49 1 | | | CDS | |
| E-1010 | | | | | HLM1B N1F56 1 | | | CDS | |
| #E-1011 | HLM1B VCDUs REJECTED BY MULTI-USE BUFFER (* VALID IN STR A ONLY) | | CDS | BUS | HLM1B N1F37 2 | 8 | ? ? | CDS | HB VC MBRJ |
| E-1011 | | | | | HLM1B N1F49 2 | | | CDS | |
| E-1011 | | | | | HLM1B N1F56 2 | | | CDS | |
| #E-1012 | HLM1B VCDUs REJECTED BY PRIORITY BUFFER (* VALID IN STR A ONLY) | | CDS | BUS | HLM1B N1F37 3 | 8 | ? ? | CDS | HB VC PBRJ |
| E-1012 | | | | | HLM1B N1F49 3 | | | CDS | |
| E-1012 | | | | | HLM1B N1F56 3 | | | CDS | |
| #E-1013 | HLM1B IMAGE COMPRESSION STATUS | | CDS | BUS | HLM1B N1F37 4 | 8 | ? ? | CDS | HB IMGCP S |
| E-1013 | | | | | HLM1B N1F49 4 | | | CDS | |
| E-1013 | | | | | HLM1B N1F56 4 | | | CDS | |
| E-1100 | CDS +5 VDC P/C A STATUS | | T1A | 10 | LLM1A N1D07 1 | 8 | F A | CDS | CDS +5V A |
| E-1100 | | | | | LLM1A N1D88 1 | | | CDS | |
| E-1101 | CDS +10 VDC P/C A STATUS | | T1A | 11 | LLM1A N1D07 2 | 8 | F A | CDS | CDS +10V A |
| E-1101 | | | | | LLM1A N1D88 2 | | | CDS | |
| E-1102 | CDS +12 VDC P/C A STATUS | | T1A | 12 | LLM1A N1D51 1 | 8 | F A | CDS | CDS +12V A |
| E-1102 | | | | | LLM1A N1D61 1 | | | CDS | |
| E-1103 | CDS -12 VDC P/C A STATUS | | T1A | 13 | LLM1A N1D51 2 | 8 | F A | CDS | CDS -12V A |
| E-1103 | | | | | LLM1A N1D61 2 | | | CDS | |
| E-1104 | CDS RELAY VOLTAGE P/C A STATUS | | T1A | 14 | LLM1A N1D14 1 | 8 | F A | CDS | CDS +15V A |
| E-1104 | | | | | LLM1A N1D24 1 | | | CDS | |
| E-1105 | CDS MEMORY KEEP-ALIVE PPS-A STATUS | | T1A | 15 | LLM1A N1D14 2 | 8 | F A | CDS | CDS +9V A |
| E-1105 | | | | | LLM1A N1D24 2 | | | CDS | |
| E-1106 | CDS +10 VOLT CURRENT P/C A STATUS | | T1A | 16 | LLM1A N1D68 1 | 8 | F A | CDS | CDS +10I A |
| E-1106 | | | | | LLM1A N1D78 1 | | | CDS | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1107 | CDS HARDWARE SPARE | | T1A 17 | | 8 | F A | CDS | CDS H-SPRA |
| E-1108<br>E-1108 | CDS +3 VOLT ADC-B STATUS | | T1A 28 | LLM1A N1D68 2<br>LLM1A N1D78 2 | 8 | F A | CDS<br>CDS | CDS +3ADCB |
| E-1109<br>E-1109 | CDS BACKUP DESPUN MEASUREMENT - LLM1A | | T1A 4B | LLM1A T1S08<br>LLM1A N1D49 1 | 8 | F A | CDS<br>CDS | CDS BKU A |
| E-1110<br>E-1110 | CDS BACKUP DESPUN MEASUREMENT (FILTERED) - LLM1A | | T1A 2E | LLM1A T1S11<br>LLM1A N1D49 2 | 8 | F A | CDS<br>CDS | CDS BKUF A |
| E-1120<br>E-1120 | CDS +5 VDC P/C B STATUS | | T1B 10 | LLM1B N1D07 1<br>LLM1B N1D88 1 | 8 | F A | CDS<br>CDS | CDS +5V B |
| E-1121<br>E-1121 | CDS +10 VDC P/C B STATUS | | T1B 11 | LLM1B N1D07 2<br>LLM1B N1D88 2 | 8 | F A | CDS<br>CDS | CDS +10V B |
| E-1122<br>E-1122 | CDS +12 VDC P/C B STATUS | | T1B 12 | LLM1B N1D51 1<br>LLM1B N1D61 1 | 8 | F A | CDS<br>CDS | CDS +12V B |
| E-1123<br>E-1123 | CDS -12 VDC P/C B STATUS | | T1B 13 | LLM1B N1D51 2<br>LLM1B N1D61 2 | 8 | F A | CDS<br>CDS | CDS -12V B |
| E-1124<br>E-1124 | CDS RELAY VOLTAGE P/C B STATUS | | T1B 14 | LLM1B N1D14 1<br>LLM1B N1D24 1 | 8 | F A | CDS<br>CDS | CDS +15V B |
| E-1125<br>E-1125 | CDS MEMORY KEEP-ALIVE PPS-B STATUS | | T1B 15 | LLM1B N1D14 2<br>LLM1B N1D24 2 | 8 | F A | CDS<br>CDS | CDS +9V B |
| E-1126<br>E-1126 | CDS +10 VOLT CURRENT P/C B STATUS | | T1B 16 | LLM1B N1D68 1<br>LLM1B N1D78 1 | 8 | F A | CDS<br>CDS | CDS +10I B |
| E-1127 | CDS HARDWARE SPARE | | T1B 17 | | 8 | F A | CDS | CDS H-SPRB |
| E-1128<br>E-1128 | CDS +3 VOLT ADC-A STATUS | | T1B 28 | LLM1B N1D68 2<br>LLM1B N1D78 2 | 8 | F A | CDS<br>CDS | CDS +3ADCA |
| E-1129<br>E-1129 | CDS BACKUP DESPUN MEASUREMENT - LLM1B | | T1B 4B | LLM1B T1S08<br>LLM1B N1D49 1 | 8 | F A | CDS<br>CDS | CDS BKU B |
| E-1130<br>E-1130 | CDS BACKUP DESPUN MEASUREMENT (FILTERED) - LLM1B | | T1B 2E | LLM1B T1S05<br>LLM1B N1D49 2 | 8 | F A | CDS<br>CDS | CDS BKUF B |
| E-1136<br>E-1136 | +3VDC TO RRA POS POT 2 | 0. to 6.0 Volt | T2A 25 | LLM2A N1D11 2<br>LLM2A N1D75 2 | 8 | F A | CDS<br>CDS | CDS +3V P2 |
| E-1137 | +3VDC TO RRA POS POT 1 (ALSO ADC-C) | 0. to 6.0 Volt | BDM 02 | | 8 | A | CDS | CDS +3V P1 |
| E-1138 | DESPUN COMMUTATOR TREE OUTPUT | | BDM 03 | | 8 | | CDS | CDS COMTRE |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
CDS - COMMAND AND DATA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1139 | DESPUN SIGNAL GROUND | 0. to 3.0 Volt | BDM 04 | | 8 | A | CDS | CDS DSGGND |
| E-1140 | FILTER CALIBRATION VOLTAGE (+2.73 V) | 0. to 3.3 Volt | BDM 05 | | 8 | A | CDS | CDS FILCLV |
| E-1141 | COM-1A TREE-1 ZERO REF | | T1A 1F | | 8 | V A | CDS | CDS C1AT1Z |
| E-1142 | COM-1A TREE-2 ZERO REF | | T1A 2F | | 8 | V A | CDS | CDS C1AT2Z |
| E-1143 | COM-1A TREE-3 ZERO REF | | T1A 3F | | 8 | V A | CDS | CDS C1AT3Z |
| E-1144 | COM-1A TREE-4 ZERO REF | | T1A 4F | | 8 | V A | CDS | CDS C1AT4Z |
| E-1145 | COM-1A TREE-5 ZERO REF | | T1A 5F | | 8 | V A | CDS | CDS C1AT5Z |
| E-1146 | COM-1A TREE-6 ZERO REF | | T1A 6F | | 8 | V A | CDS | CDS C1AT6Z |
| E-1147 | COM-1A TREE-7 ZERO REF | | T1A 7F | | 8 | V A | CDS | CDS C1AT7Z |
| E-1148 | COM-1B TREE-1 ZERO REF | | T1B 1F | | 8 | V A | CDS | CDS C1BT1Z |
| E-1149 | COM-1B TREE-2 ZERO REF | | T1B 2F | | 8 | V A | CDS | CDS C1BT2Z |
| E-1150 | COM-1B TREE-3 ZERO REF | | T1B 3F | | 8 | V A | CDS | CDS C1BT3Z |
| E-1151 | COM-1B TREE-4 ZERO REF | | T1B 4F | | 8 | V A | CDS | CDS C1BT4Z |
| E-1152 | COM-1B TREE-5 ZERO REF | | T1B 5F | | 8 | V A | CDS | CDS C1BT5Z |
| E-1153 | COM-1B TREE-6 ZERO REF | | T1B 6F | | 8 | V A | CDS | CDS C1BT6Z |
| E-1154 | COM-1B TREE-7 ZERO REF | | T1B 7F | | 8 | V A | CDS | CDS C1BT7Z |
| E-1155 | COM-2A TREE-1 ZERO REF | | T2A 1F | | 8 | V A | CDS | CDS C2AT1Z |
| E-1156 | COM-2A TREE-2 ZERO REF | | T2A 2F | | 8 | V A | CDS | CDS C2AT2Z |
| E-1157 | COM-2A TREE-3 ZERO REF | | T2A 3F | | 8 | V A | CDS | CDS C2AT3Z |
| E-1158 | COM-2A TREE-4 ZERO REF | | T2A 4F | | 8 | V A | CDS | CDS C2AT4Z |
| E-1159 | COM-2A TREE-5 ZERO REF | | T2A 5F | | 8 | V A | CDS | CDS C2AT5Z |
| E-1160 | COM-2A TREE-6 ZERO REF | | T2A 6F | | 8 | V A | CDS | CDS C2AT6Z |
| E-1161 | COM-2A TREE-7 ZERO REF | | T2A 7F | | 8 | V A | CDS | CDS C2AT7Z |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
AACS - ATTITUDE AND ARTICULATION CONTROL SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| | ALL AACS CHANNELS By Channel Number (RJ:all_aacs -04/22/95) | | | | | | | |
| E-1200 | COMBINED STAR CODE | | AACS | | 16 | B S | AACS | STAR CODE |
| E-1201 | POWER STATE #1 | | AACS | AACS T2D11 1 | 16 | F S | AACS | PWR ST 1 |
| E-1201 | One Instance DELETED | | | | | | | |
| E-1202 | SCAN POINTING TYPE | | AACS | AACS T1D09 1 | 16 | F S | AACS | SCAN TYPE |
| E-1203 | STAR IDENTIFICATION | | AACS | AACS N1D32 1 | 16 | F S | AACS | STAR ID |
| E-1203 | One Instance DELETED | | | | | | | |
| E-1204 | -Z1A 11 MS COUNT (LS) | | AACS | AACS T2D06 1 | 16 | F S | AACS | -Z1A CT |
| E-1205 | -Z2A 11 MS COUNT (LS) | | AACS | AACS T3D06 1 | 16 | F S | AACS | -Z2A CT |
| E-1206 | -Z1B 11 MS COUNT (LS) | | AACS | AACS T2D07 1 | 16 | F S | AACS | -Z3A CT |
| E-1207 | -Z2B 11 MS COUNT (LS) | | AACS | AACS T3D07 1 | 16 | F S | AACS | -Z2B CT |
| E-1208 | ROTOR SPIN RATE | | AACS | AACS T1D08 1 | 16 | B S | AACS | SPIN RATE |
| E-1209 | THRUSTER COUNTER | | AACS | AACS T1D11 1 | 16 | F S | AACS | THRUST CT |
| E-1210 | RPM HEATER CYCLE COUNT | | AACS | AACS T2D03 1 | 16 | F S | AACS | RPM CYCLE |
| E-1210 | | | AACS | AACS N1D23 1 | | | | |
| E-1211 | LAST "BC" COMMAND | | AACS | AACS T2D02 1 | 16 | F S | AACS | LAST CMD |
| E-1212 | TASK ABORT COUNT | | AACS | AACS T1D03 1 | 16 | F S | AACS | TASK ABORT |
| E-1213 | CURRENT TASK ID | | AACS | AACS N1D31 1 | 16 | F S | AACS | TASK ID |
| E-1214 | BIG SPIN RATE PROFILE | | AACS | | 16 | F S | AACS | BS RT PROF |
| E-1215 | SBA ENCODER RATE | | AACS | AACS T3D08 1 | 16 | F S | AACS | SBA RATE |
| E-1216 | STAR CLOCK TRANSIT TIME | | AACS | | 16 | V S | AACS | CLK TIME |
| E-1217 | +P1A 11 MS COUNT (LS) | | AACS | AACS T2D04 1 | 16 | F S | AACS | +P1A CT |
| E-1218 | +L1B 11 MS COUNT (LS) | | AACS | AACS T2D05 1 | 16 | F S | AACS | +L1B CT |
| E-1219 | -S1A 11 MS COUNT (LS) | | AACS | AACS T1D04 1 | 16 | F S | AACS | -S1A CT |
| E-1220 | +S2A 11 MS COUNT (LS) | | AACS | AACS T1D06 1 | 16 | F S | AACS | +S2A CT |
| E-1221 | ACQUISITION SENSOR PULSE CENTER TIME | | AACS | | 16 | V S | AACS | AS CENTER |
| E-1222 | STAR CLOCK ANGLE | | AACS | AACS N1D10 1 | 16 | V S | AACS | STAR CLK |
| E-1223 | AS MINIMUM OUTPUT VALUE | | AACS | | 16 | V S | AACS | AS MIN |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
AACS - ATTITUDE AND ARTICULATION CONTROL SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1224 | STAR ELEVATION ANGLE | | AACS | AACS N1D29 1 | 16 | V S | AACS | STAR ELEV |
| E-1224 | One Instance DELETED | | | | | | | |
| E-1225 | LAST FAULT CODE | | AACS | AACS N1D70 1 | 16 | F S | AACS | FAULT CODE |
| E-1226 | SPUN CONFIGURATION | | AACS | AACS T1D00 1 | 16 | B S | AACS | SPUN CONF |
| E-1227 | DESPUN CONFIGURATION | | AACS | AACS T2D00 1 | 16 | B S | AACS | DSPN CONF |
| E-1228 | SAS ENCODER RATE | | AACS | AACS N1D86 1 | 16 | F S | AACS | SAS RATE |
| E-1229 | STAR CONE TRANSIT TIME | | AACS | | 16 | V S | AACS | CONE TIME |
| E-1230 | +P2A 11 MS COUNT (LS) | | AACS | AACS T3D04 1 | 16 | F S | AACS | +P2A CT |
| E-1231 | +L2B 11 MS COUNT (LS) | | AACS | AACS T3D05 1 | 16 | F S | AACS | +L2B CT |
| E-1232 | -S1B 11 MS COUNT (LS) | | AACS | AACS T1D05 1 | 16 | F S | AACS | -S1B CT |
| E-1233 | +S2B 11 MS COUNT (LS) | | AACS | AACS T1D07 1 | 16 | F S | AACS | +S2B CT |
| E-1234 | ACQUISITION SENSOR PULSE WIDTH | | AACS | | 16 | V S | AACS | AS WIDTH |
| E-1235 | AS MAXIMUM OUTPUT VALUE | | AACS | | 16 | V S | AACS | AS MAX |
| E-1236 | SEARCH PHASE FAIL COUNT | | AACS | | 16 | V S | AACS | SEARCH CT |
| E-1237 | CYCLE SLIP COUNTER | | AACS | AACS N1D57 1 | 16 | F S | AACS | CYSLIP CT |
| E-1238 | IDLE TIME COUNTER | | AACS | | 16 | V S | AACS | IDLE TIME |
| E-1239 | HGA POINTING ERROR | | AACS | | 16 | F S | AACS | HGA ERROR |
| E-1239 | One Instance DELETED | | | | | | | |
| E-1239 | One Instance DELETED | | | | | | | |
| E-1240 | THRUSTER CONFIGURATION | | AACS | | 16 | V S | AACS | THR CONF |
| E-1241 | S/S THRESHOLD DEFAULT | | AACS | | 16 | V S | AACS | THRSH DFT |
| E-1242 | S/S THRESHOLD | | AACS | AACS N1D59 1 | 16 | F S | AACS | THRESHOLD |
| E-1243 | STAR BACKGROUND | | AACS | | 16 | V S | AACS | BACKGRND |
| E-1244 | EARTH STAR 1 POINTER | | AACS | AACS N1D60 1 | 16 | F S | AACS | RTH STAR1 |
| E-1245 | MANEUVER STAR 1 POINTER | | AACS | AACS N1D61 1 | 16 | F S | AACS | MVR STAR1 |
| E-1246 | SUN STAR 1 POINTER | | AACS | AACS N1D63 1 | 16 | F S | AACS | SUN STAR1 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
AACS - ATTITUDE AND ARTICULATION CONTROL SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1247 | ALERT CODE COUNT | | AACS | AACS T3D01 1 | 16 | F | S | AACS ALT CD CT |
| E-1248 | POWER CODE COUNT | | AACS | AACS T1D02 1 | 16 | F | S | AACS PWR CD CT |
| E-1248 | One Instance DELETED | | | | | | | |
| E-1249 | GYRO DRIFT M | | AACS | AACS N1D11 1 | 16 | F | S | AACS GYDRIFT M |
| E-1250 | GYRO DRIFT N | | AACS | AACS N1D12 1 | 16 | F | S | AACS GYDRIFT N |
| E-1251 | GYRO DRIFT L | | AACS | AACS N1D13 1 | 16 | F | S | AACS GYDRIFT L |
| E-1252 | LBA 1 POSITION | | AACS | AACS N1D14 1 | 16 | B | S | AACS LBA 1 POS |
| E-1253 | LBA 2 POSITION | | AACS | AACS N1D15 1 | 16 | B | S | AACS LBA 2 POS |
| E-1254 | ISOVALVE AND PDE ANNEX STATUS | | AACS | AACS T1D12 1 | 16 | B | S | AACS LVS/PA ST |
| E-1255 | ROTOR ATTITUDE FAULT COUNT | | AACS | AACS T3D03 1 | 16 | F | S | AACS RATT FAULT |
| E-1256 | INERTIAL OBSERVER FAULT COUNT | | AACS | AACS N1D49 1 | 16 | F | S | AACS INOB FAULT |
| E-1257 | SUCCESSFUL COMMAND COUNTER | | AACS | AACS N1D02 1 | 16 | F | S | AACS CM COUNT |
| E-1258 | A/D REFERENCE VOLTAGE - LOW | | AACS | | 16 | V | S | AACS A/D LO |
| E-1259 | A/D REFERENCE VOLTAGE - HIGH | | AACS | | 16 | V | S | AACS A/D HI |
| E-1260 | SPIN RATE ERROR | | AACS | | 16 | F | S | AACS SPN ERROR |
| E-1261 | BAD COMMAND COUNT 1 | | AACS | AACS N1D25 1 | 16 | F | S | AACS BAD CMD 1 |
| E-1262 | BAD COMMAND COUNT 2 | | AACS | AACS N1D26 1 | 16 | F | S | AACS BAD CMD 2 |
| E-1263 | FUNCTION STATUS | | AACS | AACS N1D27 1 | 16 | F | S | AACS FUNCTION |
| E-1264 | IVP STATUS | | AACS | AACS T1D10 1 | 16 | F | S | AACS IVP STAT |
| E-1265 | AACS STATUS #5 | | AACS | AACS N1D85 1 | 16 | F | S | AACS AACS ST #5 |
| E-1266 | HGA SLOT # | | AACS | AACS N1D03 1 | 16 | F | S | AACS HGA SLOT |
| E-1267 | HGA DEADBAND | | AACS | AACS T3D02 1 | 16 | F | S | AACS HGA DBAND |
| E-1270 | LBA ABORT COUNT | | AACS | AACS N1D35 1 | 16 | F | S | AACS LBA ABORT |
| E-1276 | SPIN RATE DEADBAND | | AACS | AACS N1D43 1 | 16 | F | S | AACS SPN DBAND |
| E-1277 | RESYNCHRONIZATION COUNTER | | AACS | AACS N1D81 1 | 16 | F | S | AACS RESYNC CT |
| E-1278 | SLEW COUNT | | AACS | AACS T2D10 1 | 16 | F | S | AACS SLEW COUNT |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
AACS - ATTITUDE AND ARTICULATION CONTROL SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1279 | SUN AVOIDANCE SLEW COUNT | | AACS | AACS N1D30 1 | 16 | F | S | SUN AVOID |
| E-1280 | MISSED SLEW TIME (MS) | | AACS | | 16 | V | S | MISLEW MS |
| E-1281 | MISSED SLEW TIME (LS) | | AACS | AACS N1D58 1 | 16 | F | S | MISLEW LS |
| E-1282 | MISSED SLEW COUNTER | | AACS | AACS T3D09 1 | 16 | F | S | MISLEW CT |
| E-1283 | CONFIGURATION FAIL COUNT | | AACS | AACS N1D87 1 | 16 | V | S | CONFIGFAIL |
| E-1284 | CONFIGURATION READY WORD | | AACS | AACS T1D01 1 | 16 | F | S | CONREADY |
| E-1284 | One Instance DELETED | | | | | | | |
| E-1285 | SS THRESHOLD MODE | | AACS | | 16 | V | S | THRSH MODE |
| E-1288 | RANGE 1 CHECKSUM | | AACS | AACS N1D84 1 | 16 | F | S | CHECKSUM 1 |
| E-1289 | RANGE 2 CHECKSUM | | AACS | AACS N1D08 1 | 16 | F | S | CHECKSUM 2 |
| E-1289 | | | | AACS N1D36 1 | | | | |
| E-1289 | | | | AACS N1D67 1 | | | | |
| E-1290 | SSSR RETURN CODE | | AACS | | 8 | V | S | SSSR RC |
| E-1291 | DELTA CLOCK SLEW ANGLE | | AACS | | 16 | V | S | DEL A |
| E-1292 | DELTA CONE SLEW ANGLE | | AACS | | 16 | V | S | DEL B |
| E-1293 | SBA ENCODER ANGLE (CLOCK) | | AACS | AACS T2D08 1 | 16 | F | S | SBA POS |
| E-1294 | SAS ENCODER ANGLE (CONE) | | AACS | AACS T2D09 1 | 16 | F | S | SAS POS |
| E-1295 | S/S I/O ERROR COUNTER | | AACS | AACS N1D07 1 | 16 | F | S | SS ERR CT |
| E-1296 | WRITE PROTECT LIMITS - ON LINE CPU | | AACS | AACS N1D76 1 | 16 | F | S | CPU PRIWP |
| E-1297 | WRITE PROTECT LIMITS - OFFLINE CPU | | AACS | AACS N1D77 1 | 16 | F | S | CPU SECWP |
| E-1298 | WRITE PROTECT LIMITS - ONLINE DMA | | AACS | AACS N1D78 1 | 16 | F | S | DMA PRIWP |
| E-1299 | WRITE PROTECT LIMITS - OFFLINE DMA | | AACS | AACS N1D79 1 | 16 | F | S | DMA SECWP |
| E-1303 | TRICKLE MEMORY READOUT ADDRESS | | AACS | AACS N2D00 1 | 16 | B | S | TMRO ADDR |
| E-1304 | TRICKLE MEMORY READOUT DATA | | AACS | AACS N2D01 1 | 16 | F | S | TMRO DATA |
| E-1304 | | | | AACS N2D02 1 | | | | |
| E-1304 | | | | AACS N2D03 1 | | | | |
| E-1304 | | | | AACS N2D04 1 | | | | |
| E-1304 | | | | AACS N2D05 1 | | | | |
| E-1304 | | | | AACS N2D06 1 | | | | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
AACS - ATTITUDE AND ARTICULATION CONTROL SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS |
|---|---|---|---|---|---|---|
| E-1304 | | | | AACS N2D07 1 | | AACS |
| E-1304 | | | | AACS N2D08 1 | | AACS |
| E-1304 | | | | AACS N2D09 1 | | AACS |
| E-1304 | | | | AACS N2D10 1 | | AACS |
| E-1304 | | | | AACS N2D11 1 | | AACS |
| E-1304 | | | | AACS N2D12 1 | | AACS |
| E-1304 | | | | AACS N2D13 1 | | AACS |
| E-1304 | | | | AACS N2D14 1 | | AACS |
| E-1304 | | | | AACS N2D15 1 | | AACS |
| E-1304 | | | | AACS N2D16 1 | | AACS |
| E-1304 | | | | AACS N2D17 1 | | AACS |
| E-1304 | | | | AACS N2D18 1 | | AACS |
| E-1304 | | | | AACS N2D19 1 | | AACS |
| E-1304 | | | | AACS N2D20 1 | | AACS |
| E-1304 | | | | AACS N2D21 1 | | AACS |
| E-1304 | | | | AACS N2D22 1 | | AACS |
| E-1304 | | | | AACS N2D23 1 | | AACS |
| E-1304 | | | | AACS N2D24 1 | | AACS |
| E-1304 | | | | AACS N2D25 1 | | AACS |
| E-1304 | | | | AACS N2D26 1 | | AACS |
| E-1304 | | | | AACS N2D27 1 | | AACS |
| E-1304 | | | | AACS N2D28 1 | | AACS |
| E-1304 | | | | AACS N2D29 1 | | AACS |
| E-1304 | | | | AACS N2D30 1 | | AACS |
| E-1304 | | | | AACS N2D31 1 | | AACS |
| E-1304 | | | | AACS N2D32 1 | | AACS |
| E-1304 | | | | AACS N2D33 1 | | AACS |
| E-1304 | | | | AACS N2D34 1 | | AACS |
| E-1304 | | | | AACS N2D35 1 | | AACS |
| E-1304 | | | | AACS N2D36 1 | | AACS |
| E-1304 | | | | AACS N2D37 1 | | AACS |
| E-1304 | | | | AACS N2D38 1 | | AACS |
| E-1304 | | | | AACS N2D39 1 | | AACS |
| E-1304 | | | | AACS N2D40 1 | | AACS |
| E-1304 | | | | AACS N2D41 1 | | AACS |
| E-1304 | | | | AACS N2D42 1 | | AACS |
| E-1304 | | | | AACS N2D43 1 | | AACS |
| E-1304 | | | | AACS N2D44 1 | | AACS |
| E-1304 | | | | AACS N2D45 1 | | AACS |
| E-1304 | | | | AACS N2D46 1 | | AACS |
| E-1304 | | | | AACS N2D47 1 | | AACS |
| E-1304 | | | | AACS N2D48 1 | | AACS |
| E-1304 | | | | AACS N2D49 1 | | AACS |
| E-1304 | | | | AACS N2D50 1 | | AACS |
| E-1304 | | | | AACS N2D51 1 | | AACS |
| E-1304 | | | | AACS N2D52 1 | | AACS |
| E-1304 | | | | AACS N2D53 1 | | AACS |
| E-1304 | | | | AACS N2D54 1 | | AACS |
| E-1304 | | | | AACS N2D55 1 | | AACS |
| E-1304 | | | | AACS N2D56 1 | | AACS |
| E-1304 | | | | AACS N2D57 1 | | AACS |
| E-1304 | | | | AACS N2D58 1 | | AACS |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
AACS - ATTITUDE AND ARTICULATION CONTROL SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1304 | | | | AACS N2D59 1 | | | AACS | |
| E-1304 | | | | AACS N2D60 1 | | | AACS | |
| E-1304 | | | | AACS N2D61 1 | | | AACS | |
| E-1304 | | | | AACS N2D62 1 | | | AACS | |
| E-1304 | | | | AACS N2D63 1 | | | AACS | |
| E-1304 | | | | AACS N2D64 1 | | | AACS | |
| E-1304 | | | | AACS N2D65 1 | | | AACS | |
| E-1304 | | | | AACS N2D66 1 | | | AACS | |
| E-1304 | | | | AACS N2D67 1 | | | AACS | |
| E-1304 | | | | AACS N2D68 1 | | | AACS | |
| E-1304 | | | | AACS N2D69 1 | | | AACS | |
| E-1304 | | | | AACS N2D70 1 | | | AACS | |
| E-1304 | | | | AACS N2D71 1 | | | AACS | |
| E-1304 | | | | AACS N2D72 1 | | | AACS | |
| E-1304 | | | | AACS N2D73 1 | | | AACS | |
| E-1304 | | | | AACS N2D74 1 | | | AACS | |
| E-1304 | | | | AACS N2D75 1 | | | AACS | |
| E-1304 | | | | AACS N2D76 1 | | | AACS | |
| E-1304 | | | | AACS N2D77 1 | | | AACS | |
| E-1304 | | | | AACS N2D78 1 | | | AACS | |
| E-1304 | | | | AACS N2D79 1 | | | AACS | |
| E-1304 | | | | AACS N2D80 1 | | | AACS | |
| E-1304 | | | | AACS N2D81 1 | | | AACS | |
| E-1304 | | | | AACS N2D82 1 | | | AACS | |
| E-1304 | | | | AACS N2D83 1 | | | AACS | |
| E-1304 | | | | AACS N2D84 1 | | | AACS | |
| E-1304 | | | | AACS N2D85 1 | | | AACS | |
| E-1304 | | | | AACS N2D86 1 | | | AACS | |
| E-1304 | | | | AACS N2D87 1 | | | AACS | |
| E-1304 | | | | AACS N2D88 1 | | | AACS | |
| E-1304 | | | | AACS N2D89 1 | | | AACS | |
| E-1304 | | | | AACS N2D90 1 | | | AACS | |
| E-1305 | TCON SPN STATE | | AACS | AACS N1D75 1 | 16 | F S | AACS | TCON SPN |
| E-1306 | TCON UNB STATE | | AACS | | 16 | V S | AACS | TCON UNB |
| E-1307 | TCON POSZ STATE | | AACS | | 16 | V S | AACS | TCON POSZ |
| E-1308 | TCON HGA STATE | | AACS | AACS N1D88 1 | 16 | F S | AACS | TCON HGA |
| E-1309 | TCON BAL STATE | | AACS | | 16 | V S | AACS | TCON BAL |
| E-1310 | TCON SUN STATE | | AACS | | 16 | F S | AACS | TCON SUN |
| E-1311 | TCON LAT STATE | | AACS | | 16 | V S | AACS | TCON LAT |
| E-1312 | TCON PULZ STATE | | AACS | | 16 | V S | AACS | TCON PULZ |
| E-1313 | TCON NEGZ STATE | | AACS | | 16 | V S | AACS | TCON NEGZ |
| E-1314 | LBA 1 COUNT MS WORD | | AACS | | 16 | V S | AACS | LBA1 CT MS |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
AACS - ATTITUDE AND ARTICULATION CONTROL SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | | | |
|---|---|---|---|---|---|---|---|---|---|
| E-1315 | LBA 1 COUNT LS WORD | | AACS | | 16 | V | S | AACS | LBA1 CT LS |
| E-1316 | LAST POWER CODE TIME (MS) | | AACS | | 16 | V | S | AACS | PWR CD MS |
| E-1317 | LAST POWER CODE TIME (LS) | | AACS | | 16 | F | S | AACS | PWR CD LS |
| E-1318 | LAST FAULT CODE TIME (MS) | | AACS | | 16 | V | S | AACS | FALT CD MS |
| E-1319 | LAST FAULT CODE TIME (LS) | | AACS | AACS N1D51 1 | 16 | F | S | AACS | FALT CD LS |
| E-1320 | LAST ALERT CODE TIME (MS) | | AACS | | 16 | V | S | AACS | ALT CD MS |
| E-1321 | LAST ALERT CODE TIME (LS) | | AACS | | 16 | F | S | AACS | ALT CD LS |
| E-1322 | LAST BUS COMMAND TIME (MS) | | AACS | | 16 | V | S | AACS | LASTBC MS |
| E-1323 | LAST BUS COMMAND TIME (LS) | | AACS | AACS N1D56 1 | 16 | F | S | AACS | LASTBC LS |
| E-1328 | TMRO START ADDRESS | | AACS | AACS N1D05 1 | 16 | F | S | AACS | TMRO STRT |
| E-1329 | TMRO END ADDRESS | | AACS | AACS N1D06 1 | 16 | F | S | AACS | TMRO END |
| E-1330 | ON-LINE BUS PARITY ERROR COUNT | | AACS | AACS N1D82 1 | 16 | F | S | AACS | BUS 1 ERR |
| E-1331 | OFF-LINE BUS PARITY ERROR COUNT | | AACS | AACS N1D83 1 | 16 | F | S | AACS | BUS 2 ERR |
| E-1332 | ON-LINE MESSAGE PARITY ERROR COUNT | | AACS | AACS N1D00 1 | 16 | F | S | AACS | MES 1 ERR |
| E-1333 | OFF-LINE MESSAGE PARITY ERROR COUNT | | AACS | AACS N1D01 1 | 16 | F | S | AACS | MES 3 ERR |
| E-1334 | ON-LINE ERROR FLAG | | AACS | AACS N1D89 1 | 16 | F | S | AACS | PRI ER FLG |
| E-1335 | OFF-LINE ERROR FLAG | | AACS | AACS N1D90 1 | 16 | F | S | AACS | SEC ER FLG |
| E-1336 | SBA A VIOLATION COUNT | | AACS | AACS T3D10 1 | 16 | F | S | AACS | SBA A VCT |
| E-1337 | SBA B VIOLATION COUNT | | AACS | AACS N1D72 1 | 16 | F | S | AACS | SBA B VCT |
| E-1338 | SAS A VIOLATION COUNT | | AACS | AACS T3D11 1 | 16 | F | S | AACS | SAS A VCT |
| E-1339 | SAS B VIOLATION COUNT | | AACS | AACS N1D74 1 | 16 | F | S | AACS | SAS B VCT |
| E-1340 | INERTIAL OBSERVER CONVERGENCE COUNTER | | AACS | AACS N1D50 1 | 16 | F | S | AACS | INOB CONV |
| E-1341 | INERTIAL OBSERVER GAIN FACTOR | | AACS | AACS N1D24 1 | 16 | F | S | AACS | INOB GAIN |
| E-1342 | ROTOR ATTITUDE CONVERGENCE COUNTER | | AACS | AACS N1D37 1 | 16 | F | S | AACS | RATT CONN |
| E-1343 | ROTOR ATTITUDE GAIN FACTOR | | AACS | AACS N1D22 1 | 16 | F | S | AACS | RATT GAIN |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
AACS - ATTITUDE AND ARTICULATION CONTROL SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | | | |
|---|---|---|---|---|---|---|---|---|---|
| E-1344 | SUN SHUTTER Y-AXIS WOBBLE ESTIMATE | | AACS | | 16 | F | S | AACS | WOBBLE EST |
| E-1345 | SUN SHUTTER/HIGH VOLTAGE COMMAND | | AACS | | 8 | V | S | AACS | SS/HV CMD |
| E-1346 | SUN SHUTTER/HIGH VOLTAGE STATE | | AACS | | 8 | V | S | AACS | SS/HV ST |
| E-1347 | ENCODER TIME TAG | | AACS | | 16 | V | S | AACS | ENCOD TIME |
| E-1348 | GYRO TIME TAG | | AACS | | 16 | V | S | AACS | GYRO TIME |
| E-1349 | THRUSTER ON HEAT | | AACS | | 16 | V | S | AACS | THR ON HT |
| E-1350 | THRUSTER OFF HEAT | | AACS | | 16 | V | S | AACS | THR OFF HT |
| E-1351 | ISOVALVE COMMAND | | AACS | | 16 | V | S | AACS | ISOV CMD |
| E-1352 | PLUME IMPINGEMENT VIOLATION COUNT | | AACS | | 16 | V | S | AACS | PLM IM VCT |
| E-1353 | RTIO TIME MS WORD | | AACS | | 16 | V | S | AACS | RTIO MS |
| E-1354 | RTIO TIME LS WORD | | AACS | | 16 | V | S | AACS | RTIO LS |
| E-1359 | LBA2 COUNT MS WORD | | AACS | | 16 | V | S | AACS | LBA2 CT MS |
| E-1360 | LBA2 COUNT LS WORD | | AACS | | 16 | V | S | AACS | LBA2 CT LS |
| E-1361 | FLOOD MODE WORD 1 | | AACS | | 16 | V | S | AACS | FLD MOD W1 |
| E-1362 | FLOOD MODE WORD 2 | | AACS | | 16 | V | S | AACS | FLD MOD W2 |
| E-1363 | FLOOD MODE WORD 3 | | AACS | | 16 | V | S | AACS | FLD MOD W3 |
| E-1364 | FLOOD MODE WORD 4 | | AACS | | 16 | V | S | AACS | FLD MOD W4 |
| E-1365 | FLOOD MODE WORD 5 | | AACS | | 16 | V | S | AACS | FLD MOD W5 |
| E-1366 | FLOOD MODE WORD 6 | | AACS | | 16 | V | S | AACS | FLD MOD W6 |
| E-1370 | FAULT COUNTER | | AACS | AACS T3D00 1 | 16 | F | S | AACS | FAULTCOUNT |
| E-1370 | One Instance DELETED | | | | | | | | |
| E-1371 | FAULT FLAG #1 | | AACS | AACS N1D52 1 | 16 | F | S | AACS | FAULTFLAG1 |
| E-1372 | FAULT FLAG #2 | | AACS | AACS N1D53 1 | 16 | F | S | AACS | FAULTFLAG2 |
| E-1373 | FAULT FLAG #3 | | AACS | AACS N1D54 1 | 16 | F | S | AACS | FAULTFLAG3 |
| E-1374 | FAULT PROTECTION STATE 1 | | AACS | AACS N1D39 1 | 16 | F | S | AACS | FAULTPRO 1 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
AACS - ATTITUDE AND ARTICULATION CONTROL SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1375 | FAULT PROTECTION STATE 2 | | AACS | AACS N1D40 1 | 16 | F S | AACS | FAULTPRO 2 |
| E-1376 | FAULT PROTECTION STATE 3 | | AACS | AACS N1D41 1 | 16 | F S | AACS | FAULTPRO 3 |
| E-1377 | ROM SAS ENCODER ANGLE | | ROM | | 16 | ROM | AACS | SASPOS ROM |
| E-1378 | ROM SBA ENCODER ANGLE | | ROM | | 16 | ROM | AACS | SBAPOS ROM |
| E-1379 | ROM AS DATA | | ROM | | 16 | ROM | AACS | AS DAT ROM |
| E-1380 | ROM SPIN PERIOD | | ROM | | 16 | ROM | AACS | SPN PD ROM |
| E-1381 | ROM AS PULSE WORD | | ROM | | 16 | ROM | AACS | AS PW ROM |
| E-1382 | ROM MEMORY LOSS ALARM | | ROM | | 16 | ROM | AACS | MEMLOS ROM |
| E-1383 | BAD PWR CODE ECHO ONLINE COUNT | | AACS | AACS N1D55 1 | 16 | V S | AACS | EC ONL CT |
| E-1384 | BAD PWR CODE ECHO OFFLINE COUNT | | AACS | | 16 | V S | AACS | EC OFFL CT |
| E-1385 | PWR CODE TIMED OUT | | AACS | | 16 | V S | AACS | PC TIMEOUT |
| E-1386 | POWER CODE RESTARTS | | AACS | AACS N1D16 1 | 16 | F S | AACS | PC RESTART |
| E-1387 | ACCELEROMETER 1 I/O ERROR COUNT | | AACS | AACS N1D64 1 | 16 | F S | AACS | AC1 ERR CT |
| E-1388 | ACCELEROMETER 2 I/O ERROR COUNT | | AACS | AACS N1D65 1 | 16 | F S | AACS | AC2 ERR CT |
| E-1389 | GYRO 2 I/O ERROR COUNT | | AACS | AACS N1D44 1 | 16 | F S | AACS | CY2 ERR CT |
| E-1390 | DEUCE I/O ERROR COUNT | | AACS | AACS N1D17 1 | 16 | F S | AACS | DCE ERR CT |
| E-1391 | ACE I/O ERROR COUNT | | AACS | AACS N1D18 1 | 16 | F S | AACS | ACE ERR CT |
| E-1392 | GYRO 1 I/O ERROR COUNT | | AACS | AACS N1D34 1 | 16 | F S | AACS | GY1 ERR CT |
| E-1393 | A/D I/O ERROR COUNT | | AACS | AACS N1D80 1 | 16 | F S | AACS | A/D ERR CT |
| E-1394 | LAST ALERT CODE | | AACS | AACS Z1S00 1 | 8 | F S | AACS | ALRT CODE |
| E-1395 | LAST POWER CODE | | AACS | AACS Z2S00 1 | 8 | F S | AACS | PWR CODE |
| E-1396 | AACS STATUS #1 | | AACS | AACS Z1D00 1 | 16 | F S | AACS | AACS ST 1 |
| E-1397 | AACS STATUS #2 | | AACS | AACS Z2D00 1 | 16 | F S | AACS | AACS ST 2 |
| E-1398 | GYRO 1Y RAW DATA | | AACS | | 16 | V S | AACS | GYRO 1Y |
| E-1399 | GYRO 1X RAW DATA | | AACS | | 16 | V S | AACS | GYRO 1X |
| E-1400 | GYRO 2Y RAW DATA | | AACS | | 16 | V S | AACS | GYRO 2Y |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
AACS - ATTITUDE AND ARTICULATION CONTROL SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | | | |
|---|---|---|---|---|---|---|---|---|---|
| E-1401 | GYRO 2X RAW DATA | | AACS | | 16 | V | S | AACS | GYRO 2X |
| E-1402 | ACCELEROMETER 1 RAW DATA | | AACS | | 16 | V | S | AACS | ACCEL 1 |
| E-1403 | ACCELEROMETER 2 RAW DATA | | AACS | | 16 | V | S | AACS | ACCEL 2 |
| E-1404 | ACCUMULATED DELTA-V | | AACS | | 16 | V | S | AACS | DELTA V |
| E-1405 | SBA TOTAL TORQUE | | AACS | AACS N1D04 1 | 16 | V | S | AACS | SBA TORQUE |
| E-1405 | | | | AACS N1D33 1 | | | | AACS | |
| E-1405 | | | | AACS N1D62 1 | | | | AACS | |
| E-1405 | | | | AACS N1D66 1 | | | | AACS | |
| E-1406 | SAS TOTAL TORQUE | | AACS | AACS N1D09 1 | 16 | V | S | AACS | SAS TORQUE |
| E-1406 | | | | AACS N1D38 1 | | | | AACS | |
| E-1406 | | | | AACS N1D42 1 | | | | AACS | |
| E-1406 | | | | AACS N1D71 1 | | | | AACS | |
| E-1407 | SBA POSITION ERROR | | AACS | | 16 | V | S | AACS | SBA P ERR |
| E-1408 | SAS POSITION ERROR | | AACS | | 16 | V | S | AACS | SAS P ERR |
| E-1409 | SBA RATE ERROR | | AACS | | 16 | V | S | AACS | SBA R ERR |
| E-1410 | SAS RATE ERROR | | AACS | | 16 | V | S | AACS | SAS R ERR |
| E-1411 | SBA FEED-FORWARD TORQUE | | AACS | | 16 | V | S | AACS | SBA FE TQ |
| E-1412 | SAS FEED-FORWARD TORQUE | | AACS | | 16 | V | S | AACS | SAS FE TQ |
| E-1413 | CLOCK CONTROLLER TORQUE | | AACS | | 16 | V | S | AACS | CLK CN TQ |
| E-1414 | CONE CONTROLLER TORQUE | | AACS | | 16 | V | S | AACS | CON CN TQ |
| E-1415 | ACQUISITION SENSOR E-DATA | | AACS | | 16 | B | S | AACS | E DATA |
| E-1416 | ACQUISITION SENSOR I/G DATA | | AACS | | 16 | B | S | AACS | I/G DATA |
| E-1417 | ROTOR ATTITUDE - RA | | AACS | AACS N1D19 1 | 16 | B | S | AACS | ROTOR RA |
| E-1418 | ROTOR ATTITUDE - DEC | | AACS | AACS N1D20 1 | 16 | B | S | AACS | ROTOR DEC |
| E-1419 | PLATFORM ATTITUDE - RA | | AACS | AACS T2D12 1 | 16 | B | S | AACS | PLAT RA |
| E-1420 | PLATFORM ATTITUDE - DEC | | AACS | AACS T3D12 1 | 16 | B | S | AACS | PLAT DEC |
| E-1421 | ROTOR ATTITUDE - TWIST | | AACS | AACS N1D21 1 | 16 | F | S | AACS | ROTOR TWST |
| E-1422 | PLATFORM ATTITUDE - TWIST | | AACS | | 16 | V | S | AACS | PLAT TWST |
| E-1423 | PLATFORM RATE - CONE | | AACS | | 16 | V | S | AACS | CONE RATE |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
AACS - ATTITUDE AND ARTICULATION CONTROL SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1424 | PLATFORM RATE - CROSS CONE | | AACS | | 16 | V S | AACS | XCONE RATE |
| E-1425 | STAR PULSE INTENSITY | | AACS | | 16 | V S | AACS | STAR INT |
| E-1426 | STAR PULSE TIME | | AACS | | 16 | V S | AACS | STAR TIME |
| E-1427 | STAR SCANNER SAMPLE COUNT | | AACS | | 16 | V S | AACS | STAR COUNT |
| E-1428 | SPIN DETECTOR HIGH RATE RAW DATA | | AACS | | 16 | V S | AACS | SDHI RAW |
| E-1429 | SPIN DETECTOR LOW RATE RAW DATA | | AACS | | 16 | V S | AACS | SDLO RAW |
| E-1430 | SPIN DETECTOR HIGH RATE FILTERED SPIN RATE | | AACS | AACS N1D46 1 | 16 | F S | AACS | SDHI RATE |
| E-1431 | SPIN DETECTOR LOW RATE FILTERED SPIN RATE | | AACS | AACS T2D01 1 | 16 | F S | AACS | SDLO RATE |
| E-1432 | ACTUAL RANGE 3 CHECKSUM | | AACS | AACS N1D68 1 | 16 | F S | AACS | CHECKSUM 3 |
| E-1433 | ACTUAL RANGE 4 CHECKSUM | | AACS | AACS N1D45 1 | 16 | F S | AACS | CHECKSUM 4 |
| E-1433 | | | | AACS N1D47 1 | | | AACS | |
| E-1433 | | | | AACS N1D69 1 | | | AACS | |
| E-1434 | SEQID RETURN CODE | | AACS | | 8 | V S | AACS | SEQID RC |
| E-1435 | BUFFERED STAR POINTER | | AACS | | 8 | V S | AACS | STAR PTR |
| E-1436 | SEU DETECTION | | AACS | | 16 | V S | AACS | SEU DETECT |
| E-1437 | TARGET STAR | | AACS | | 8 | V S | AACS | TARGET STR |
| E-1438 | SEU COUNTER | | AACS | AACS N1D73 1 | 16 | V S | AACS | SEU COUNT |
| E-1439 | FAULTPAR | | AACS | AACS N1D28 1 | 16 | V S | AACS | FAULTPAR |
| E-1440 | SUN GATE RAW DATA | | AACS | | 16 | V S | AACS | SG RAW |
| E-1441 | SEU GATE RAW DATA/LAST VIOLATION | | AACS | | 16 | V S | AACS | SG RW VIOL |
| E-1442 | PA THRUSTER DISABLE COUNT | | AACS | | 16 | V S | AACS | PA THR DCT |
| E-1443 | PA INTEG TOGGLE COUNT | | AACS | | 16 | V S | AACS | PA INT TOG |
| E-1444 | FAULT ADDRESS | | AACS | AACS N1D48 1 | 16 | V S | AACS | FAULT ADDR |
| *E-1450 | ROTOR ATTITUDE SOURCE | 0 to 255 | AACS | | 8 | | AACS | RTR AT AVL |
| *E-1451 | HGA POINTING ERROR (ONE BYTE) | 0 to 255 | AACS | | 8 | | AACS | HGA ERR 1B |
| *E-1452 | SPIN RATE ERROR (ONE-BYTE) | -128 to 127 | AACS | | 8 | | AACS | SPN ERR 1B |
| *E-1453 | Y-AXIS WOBBLE ESTIMATE (ONE BYTE) | -128 to 127 | AACS | | 8 | | AACS | WOBEST 1B |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
AACS - ATTITUDE AND ARTICULATION CONTROL SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| *E-1454 | FUNCTION (ONE BYTE) | 00 to FF | AACS | | 8 | | AACS | FUNCTION1B |
| *E-1455 | FAULT CODE (ONE BYTE) | 00 to FF | AACS | | 8 | | AACS | FAULTCD 1B |
| E-1472 | STAR SCANNER TEMPERATURE | -78. to 100. Deg | T1B 76 | LLM1B N1D20 2 | 8 | F T | AACS | SS T |
| E-1472 | | | | LLM1B N1D47 2 | | | AACS | |
| E-1473 | GYRO SENSOR 1 TEMPERATURE | -78. to 100. Deg | T2A 56 | LLM2A N1D23 1 | 8 | F T | AACS | GYRO 1 T |
| E-1474 | GYRO SENSOR 2 TEMPERATURE | -78. to 100. Deg | T2A 6B | LLM2A N1D67 1 | 8 | F T | AACS | GYRO 2 T |
| E-1475 | SPIN BEARING ASSEMBLY MECHANICAL TEMPERATURE 1 | -78. to 100. Deg | T2A 5A | LLM2A N1D23 2 | 8 | F T | AACS | SBA M T1 |
| E-1476 | SPIN BEARING ASSEMBLY MECHANICAL TEMPERATURE 2 | -78. to 100. Deg | T2A 7A | LLM2A N1D67 2 | 8 | F T | AACS | SBA M T2 |
| E-1477 | LINEAR BOOM ACTUATOR 1 TEMPERATURE | -102. to 74. Deg | T1B 68 | LLM1B N1D57 1 | 8 | F T | AACS | LBA 1 T |
| E-1477 | | | | LLM1B N1D84 1 | | | AACS | |
| E-1478 | LINEAR BOOM ACTUATOR 2 TEMPERATURE | -102. to 74. Deg | T1A 68 | LLM1A N1D57 1 | 8 | F T | AACS | LBA 2 T |
| E-1478 | | | | LLM1A N1D84 1 | | | AACS | |
| E-1479 | SCAN ACTUATOR SUBASSEMBLY MECHANICAL TEMPERATURE | -102. to 74. Deg | T2A 58 | LLM2A N1D30 1 | 8 | F T | AACS | SAS M T1 |
| E-1480 | SCAN ACTUATOR SUBASSEMBLY MECHANICAL TEMPERATURE | -102. to 74. Deg | T2A 65 | LLM2A N1D77 1 | 8 | F T | AACS | SAS M T2 |
| E-1481 | ACCELEROMETER TRANSDUCER 1 TEMPERATURE | -102. to 74. Deg | T2A 6C | LLM2A N1D77 2 | 8 | F T | AACS | ACC 1 T |
| E-1482 | ACCELEROMETER TRANSDUCER 2 TEMPERATURE | -102. to 74. Deg | T2A 75 | LLM2A N1D30 2 | 8 | F T | AACS | ACC 2 T |
| E-1483 | SPIN DETECTOR TEMPERATURE | -102. to 74. Deg | T1A 7A | LLM1A N1D57 2 | 8 | F T | AACS | SPN DET T1 |
| E-1483 | | | | LLM1A N1D84 2 | | | AACS | |
| E-1485 | ACQUISITION SENSOR TEMPERATURE | -102. to 74. Deg | T1B 56 | LLM1B N1D57 2 | 8 | F T | AACS | ACQ SENS T |
| E-1485 | | | | LLM1B N1D84 2 | | | AACS | |
| E-1486 | PA LV/PV VOLT SENSE A | 0. to 3. Volt | T1A 4E | LLM1A N1D20 1 | 8 | B A | AACS | VLV VOLT A |
| E-1486 | | | | LLM1A N1D47 1 | | | AACS | |
| E-1487 | PA LV/PV VOLT SENSE B | 0. to 3. Volt | T1B 4E | LLM1B N1D20 1 | 8 | B A | AACS | VLV VOLT B |
| E-1487 | | | | LLM1B N1D47 1 | | | AACS | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
RPM - RETRO PROPULSION MODULE SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1585 | HELIUM TANK MANIFOLD PRESSURE, PH1 | 0. to 275. BAR | T1A 1A | LLM1A N1D81 1 | 8 | B A | RPM | PH1 |
| E-1586 | OXIDIZER TANK 1 PRESSURE, PO1 | 0. to 24. BAR | T1A 20 | LLM1A N1D81 2 | 8 | B A | RPM | PO1 |
| E-1587<br>E-1587 | OXIDIZER TANK 2 PRESSURE, PO2 | 0. to 24. BAR | T1B 39 | LLM1B T1S00<br>LLM1B N1D81 1 | 8 | B A | RPM<br>RPM | PO2 |
| E-1588 | FUEL TANK 1 PRESSURE, PF1 | 0. to 24. BAR | T1A 44 | LLM1A N1D44 1 | 8 | B A | RPM | PF1 |
| E-1589<br>E-1589 | FUEL TANK 2 PRESSURE, PF2 | 0. to 24. BAR | T1B 20 | LLM1B T1S07<br>LLM1B N1D81 2 | 8 | B A | RPM<br>RPM | PF2 |
| E-1590 | OXIDIZER FEED LINE PRESSURE, PO3 | 0. to 24. BAR | T1B 2C | LLM1B N1D44 1 | 8 | B A | RPM | PO3 |
| E-1591 | FUEL FEED LINE PRESSURE, PF3 | 0. to 24. BAR | T1A 39 | LLM1A N1D44 2 | 8 | B A | RPM | PF3 |
| E-1594 | 400 N ENGINE CHAMBER PRESSURE, PE1 | 0. to 27.5 BAR | T1B 49 | | 8 | B A | RPM | 400N ENG P |
| E-1595 | HELIUM TANK #1 TEMPERATURE, TH1 | -102. to 74. Deg | T1B 51 | LLM1B N1D44 2 | 8 | B T | RPM | HE TANK1 T |
| E-1596 | HELIUM TANK #2 TEMPERATURE, TH2 | -102. to 74. Deg | T1A 71 | LLM1A N1D13 1 | 8 | B T | RPM | HE TANK2 T |
| E-1597 | FUEL TANK #1 OUTLET TEMPERATURE, TF1 | -102. to 74. Deg | T1B 78 | LLM1B N1D13 1 | 8 | B T | RPM | TF1 |
| E-1598 | FUEL TANK #2 OUTLET TEMPERATURE, TF2 | -102. to 74. Deg | T1A 78 | LLM1A N1D13 2 | 8 | B T | RPM | TF2 |
| E-1599 | OXIDIZER TANK #1 OUTLET TEMPERATURE, TO1 | -102. to 74. Deg | T1B 74 | LLM1B N1D13 2 | 8 | B T | RPM | TO1 |
| E-1600 | OXIDIZER TANK #2 OUTLET TEMPERATURE, TO2 | -102. to 74. Deg | T1A 5C | LLM1A N1D67 1 | 8 | B T | RPM | TO2 |
| E-1601 | -Z1B THRUSTER TEMPERATURE, TT3 | -50. to 586. Deg | T1B 7C | LLM1B T1S03 | 8 | B T | RPM | Z1B |
| E-1602 | CLUSTER 2 TEMPERATURE 1, TC3 | -98. to 100. Deg | T1A 6C | LLM1A T1S04 | 8 | B T | RPM | TC3 |
| E-1603 | OXIDIZER TANK 1 INLET TEMPERATURE, TO4 | -102. to 74. Deg | T1A 74 | LLM1A N1D67 2 | 8 | B T | RPM | TO4 |
| E-1604 | FUEL TANK 1 INLET TEMPERATURE, TF4 | -102. to 74. Deg | T1B 55 | LLM1B N1D67 1 | 8 | B T | RPM | TF4 |
| E-1605 | -S1B THRUSTER TEMPERATURE, TT11 | -50. to 586. Deg | T1B 64 | LLM1B N1D67 2 | 8 | B T | RPM | S1B |
| E-1606 | P2A THRUSTER TEMPERATURE, TT8 | -50. to 586. Deg | T1A 64 | | 8 | B T | RPM | P2A |
| E-1607 | P1A THRUSTER TEMPERATURE, TT6 | -52. to 555. Deg | T1A 53 | | 8 | B T | RPM | +P1A |
| E-1608 | L1B THRUSTER TEMPERATURE, TT7 | -52. to 555. Deg | T1B 52 | LLM1B T2S08 | 8 | B T | RPM | L1B |
| E-1609 | +S2B THRUSTER TEMPERATURE, TT13 | -52. to 555. Deg | T1B 63 | LLM1B T1S06 | 8 | B T | RPM | S2B |
| E-1610 | +S2A THRUSTER TEMPERATURE, TT12 | -52. to 555. Deg | T1A 63 | LLM1A T1S05 | 8 | B T | RPM | S2A |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
RPM - RETRO PROPULSION MODULE SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1611 | 400 N INJECTOR TEMPERATURE, TE1 | -82. to 201. Deg | T1A 73 | | 8 | F T | RPM | 400N INJ T |
| E-1612 | 400 N JACKET TEMPERATURE, TE2 | -82. to 201. Deg | T1B 60 | | 8 | F T | RPM | 400N JKT T |
| E-1613 | CLUSTER 1 TEMPERATURE 2, TC2 | -225. to 121. Deg | T1A 51 | LLM1A T1S01 | 8 | B T | RPM | TC2 |
| E-1614 | CLUSTER 2 TEMPERATURE 2, TC4 | -225. to 121. Deg | T1B 72 | LLM1B T2S07 | 8 | B T | RPM | TC4 |
| E-1615 | -S1A THRUSTER TEMPERATURE, TT10 | -50. to 586. Deg | T1A 62 | LLM1A T1S06 | 8 | B T | RPM | S1A |
| E-1616 | -Z2B THRUSTER TEMPERATURE, TT5 | -50. to 586. Deg | T1B 7B | LLM1B T1S01 | 8 | B T | RPM | Z2B |
| E-1617 | CLUSTER 1 TEMPERATURE 1, TC1 | -98. to 100. Deg | T1B 6A | LLM1B T2S00 | 8 | B T | RPM | TC1 |
| E-1618 | -Z1A THRUSTER TEMPERATURE, TT2 | -50. to 586. Deg | T1A 5A | | 8 | B T | RPM | -Z1A TT02 |
| E-1619 | -Z2A THRUSTER TEMPERATURE, TT4 | -50. to 586. Deg | T1A 66 | LLM1A T1S10 | 8 | B T | RPM | Z2A |
| E-1620 | L2B THRUSTER TEMPERATURE, TT9 | -52. to 555. Deg | T1B 71 | | 8 | B T | RPM | +L2B TT09 |

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Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
TEMP - TEMPERATURE CONTROL SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1625 | PLUME SHIELD TEMPERATURE | -250. to 580. Deg | T2A 60 | LLM2A N1D58 2 | 8 | F T | TEMP | PL SN TEMP |
| E-1625 | | | | LLM2A N1D85 2 | | | TEMP | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
DEV - DEVICES SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| *E-0067 | PPS/DEV/PRB/UVS STATUS WORD | | T2A 01 | LLM2A N1D40 2 | 8 | V D | *DEV | P/D/P ST 1 |
| *E-0068 | PPS/DEV/PRB STATUS WORD | | T2B 01 | | 8 | V D | *DEV | P/D/P ST 2 |
| E-1635 | PPS/DEV/SXA STATUS | | T1A 02 | | 8 | B D | DEV | DEV/SXA ST |
| E-1636 | PPS/DEV/SXA/DDS STATUS | | T1B 02 | LLM1B N1D23 2 | 8 | B D | DEV | DEV/SXA ST |
| E-1637 | +X RTG BOOM ACTUATOR TEMPERATURE 1 | -102. to 74. Deg | T1B 7D | LLM1B N1D53 1 | 8 | F T | DEV | +X RTG AT1 |
| E-1637 | | | | LLM1B N1D69 1 | | | DEV | |
| E-1637 | | | | LLM1B N1D71 1 | | | DEV | |
| E-1638 | -X RTG BOOM ACTUATOR TEMPERATURE 1 | -102. to 74. Deg | T1A 69 | LLM1A N1D53 1 | 8 | F T | DEV | -X RTG AT1 |
| E-1638 | | | | LLM1A N1D69 1 | | | DEV | |
| E-1638 | | | | LLM1A N1D71 1 | | | DEV | |
| E-1639 | NUTATION DAMPER TEMPERATURE 1 | -102. to 74. Deg | T1A 58 | LLM1A N1D53 2 | 8 | F T | DEV | NDA T1 |
| E-1639 | | | | LLM1A N1D69 2 | | | DEV | |
| E-1639 | | | | LLM1A N1D71 2 | | | DEV | |
| E-1640 | NUTATION DAMPER TEMPERATURE 2 | -102. to 74. Deg | T1B 54 | LLM1B N1D53 2 | 8 | F T | DEV | NDA T2 |
| E-1640 | | | | LLM1B N1D69 2 | | | DEV | |
| E-1640 | | | | LLM1B N1D71 2 | | | DEV | |
| E-1641 | SCIENCE BOOM ACTUATOR TEMPERATURE 1 | -102. to 74. Deg | T1B 65 | | 8 | F T | DEV | S BM A T1 |
| E-1642 | SCIENCE BOOM ACTUATOR TEMPERATURE 2 | -102. to 74. Deg | T1A 70 | | 8 | F T | DEV | S BM A T2 |
| E-1643 | MAG BOOM RATE LIMITER TEMPERATURE 1 | -102. to 74. Deg | T1A 52 | | 8 | F T | DEV | MGBM RL T1 |
| E-1644 | MAG BOOM RATE LIMITER TEMPERATURE 2 | -102. to 74. Deg | T1B 58 | | 8 | F T | DEV | MGBM RL T2 |
| E-1645 | +X RTG BOOM ACTUATOR TEMPERATURE 2 | -102. to 74. Deg | T1A 65 | LLM1A N1D16 1 | 8 | F T | DEV | +X RTG AT2 |
| E-1645 | | | | LLM1A N1D32 1 | | | DEV | |
| E-1645 | | | | LLM1A N1D34 1 | | | DEV | |
| E-1646 | -X RTG BOOM ACTUATOR TEMPERATURE 2 | -102. to 74. Deg | T1B 75 | LLM1B N1D16 1 | 8 | F T | DEV | -X RTG AT2 |
| E-1646 | | | | LLM1B N1D32 1 | | | DEV | |
| E-1646 | | | | LLM1B N1D34 1 | | | DEV | |
| E-1647 | RELAY ANTENNA DEPLOYMENT MOTOR TEMPERATURE | -102. to 74. Deg | T2A 69 | LLM2A N1D40 1 | 8 | F T | DEV | RAD MOTR T |
| E-1648 | LGA-2 MOTOR TEMPERATURE 1 | -102. to 74. Deg | T1A 56 | | 8 | F T | DEV | LGA2 M T1 |
| E-1649 | LGA-2 MOTOR TEMPERATURE 2 | -102. to 74. Deg | T1B 53 | | 8 | F T | DEV | LGA2 M T2 |

*Repeated fromm PPS

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
DMS - DATA MANAGEMENT SUB SYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1650 | DMS STATUS DATA A | | T1A 0C | LLM1A S1S00 | 8 | F D | DMS | DMS ST A |
| E-1650 | | | | LLM1A S1S01 | | | DMS | |
| E-1650 | | | | LLM1A S1S02 | | | DMS | |
| E-1651 | DMS STATUS DATA B | | T1B 0C | LLM1B S1S00 | 8 | F D | DMS | DMS ST B |
| E-1651 | | | | LLM1B S1S01 | | | DMS | |
| E-1651 | | | | LLM1B S1S02 | | | DMS | |
| E-1652 | DMS DC MOTOR CURRENT | 0. to 300. MA | T1A 30 | LLM1A T2S03 | 8 | F A | DMS | DC MTR I |
| E-1652 | | | | LLM1A T2S04 | | | DMS | |
| E-1652 | | | | LLM1A T2S05 | | | DMS | |
| E-1652 | | | | LLM1A T2S09 | | | DMS | |
| E-1652 | | | | LLM1A T2S10 | | | DMS | |
| E-1652 | | | | LLM1A T2S11 | | | DMS | |
| E-1653 | DMS TRANSPORT PRESSURE | 0. to 30. PSI | T1B 30 | LLM1B T2S02 | 8 | F A | DMS | XPORT P |
| E-1653 | | | | LLM1B T2S12 | | | DMS | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
SXA - S/X-BAND ANTENNA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| *E-1635 | PPS/DEV/SXA STATUS | | T1A 02 | | 8 | B D | *SXA | DEV/SXA ST |
| *E-1636 | PPS/DEV/SXA/DDS STATUS | | T1B 02 | LLM1B N1D23 2 | 8 | B D | *SXA | DEV/SXA ST |
| E-1657 | HGA MOTOR TEMPERATURE A | -225. to 121. Deg | T1A 60 | | 8 | F T | SXA | HGA MTR TA |
| E-1658 | HGA S-BAND FEED TEMPERATURE | -225. to 121. Deg | T1B 70 | | 8 | F T | SXA | HGA S FHT |
| E-1659 | HGA X-BAND FEED HORN TEMPERATURE | -225. to 121. Deg | T1B 50 | | 8 | F T | SXA | HGA X FHT |
| E-1660 | LGA BODY TEMPERATURE | -225. to 121. Deg | T1A 50 | LLM1A N1D20 2 | 8 | F T | SXA | LGA BODY T |
| E-1660 | | | | LLM1A N1D47 2 | | | SXA | |

*Repeated from DEV

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Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
SXA - S/X-BAND ANTENNA SUBSYSTEM

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PWS - PLASMA WAVE SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1675 | SEARCH COIL PREAMPLIFIER TEMPERATURE | -94. to 122. Deg | T1A 75 | LLM1A N1D23 1 | 8 | F T | PWS | PWS SCP T |
| E-1676 | MAIN ELECTRONICS TEMPERATURE | -78. to 100. Deg | T1B 7A | LLM1B N1D23 1 | 8 | F T | PWS | PWS ELC T |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
EUV - EXTREME ULTRAVIOLET SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1680 | EUV ANALOG MULTIPLEXED HOUSEKEEPING | 0 to 3 Volt | T1A 2C | LLM1A S1S04 | 8 | F A | EUV | EUV ANALOG |
| E-1680 | | | | LLM1A N1D30 2 | | | EUV | |
| E-1681 | EUV ELECTRONICS TEMPERATURE | -102. to 74. Deg | T1A 72 | LLM1A N1D30 1 | 8 | F T | EUV | EUV ELEC |

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Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
EPD - ENERGETIC PARTICLE DETECTION SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| #S-1673 | EPD STATUS | | CDS BUS | LLM1A N1D29 2 | 8 | ? ? | EPD | EP STATUS |
| S-1673 | | | | LLM1B N1D29 2 | | | EPD | |
| E-1690 | LEMMS TELESCOPE TEMPERATURE | -102. to 74. Deg | T1A 59 | LLM1A N1D60 2 | 8 | F T | EPD | EP LEMMS T |
| E-1691 | CMS TELESCOPE TEMPERATURE | -128. to 48. Deg | T1A 79 | LLM1A N1D60 1 | 8 | F T | EPD | EP CMS T |
| E-1692 | MAIN ELECTRONICS COVER TEMPERATURE | -102. to 74. Deg | T1B 69 | LLM1B N1D60 2 | 8 | F T | EPD | EP ELECT T |
| E-1693 | MOTOR LEG TEMPERATURE | -128. to 48. Deg | T1B 5C | LLM1B N1D60 1 | 8 | F T | EPD | EP MOTOR T |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
PPR - PHOTOPOLARIMETER RADIOMETER SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1715 | PRISM/DETECTOR ASSEMBLY TEMPERATURE | -102. to 74. Deg | T2A 59 | LLM2A N1D21 1 | 8 | F T | PPR | PR DET T |
| E-1715 | | | | LLM2A N1D48 1 | | | PPR | |
| E-1716 | MAIN ELECTRONICS TEMPERATURE | -102. to 74. Deg | T2A 79 | LLM2A N1D21 2 | 8 | F T | PPR | PR ELEC T |
| E-1716 | | | | LLM2A N1D48 2 | | | PPR | |

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Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
HIC - HEAVY ION COUNTER SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1720 | HIC ANALOG MULTIPLEXED HOUSEKEEPING | 0 to 3 Volt | T1B 3D | LLM1B S1S04 | 8 | F A | HIC | HIC AN MUX |
| E-1722 | HIC TELESCOPE TEMPERATURE | -102. to 74. Deg | T1B 62 | LLM1B N1D30 1 | 8 | F T | HIC | HIC TELE T |

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Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
DDS - DUST DETECTOR SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| *E-1636 | PPS/DEV/SXA/DDS STATUS | | T1B 02 | LLM1B N1D23 2 | 8 | B D | *DDS | DEV/SXA ST |
| E-1740 | SENSOR TEMPERATURE | -102. to 74. Deg | T1A 5D | LLM1A N1D23 2 | 8 | F T | DDS | DDS SENS T |

*Repeated from DEV

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
PLS - PLASMA SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1750 | VELOCITY DISTRIBUTION ANALYZER TEMPERATURE | -102. to 74. Deg | T1A 6D | LLM1A N1D86 1 | 8 | F T | PLS | PLS VEL T |
| E-1751 | COMPOSITION ANALYZER TEMPERATURE | -102. to 74. Deg | T1B 5D | LLM1B N1D86 1 | 8 | F T | PLS | PLS COMP T |
| E-1752 | HIGH VOLTAGE POWER SUPPLY TEMPERATURE | -102. to 74. Deg | T1A 7C | LLM1A N1D86 2 | 8 | F T | PLS | PLS HVPS T |
| E-1753 | DATA HANDLING AND CONTROL TEMPERATURE | -102. to 74. Deg | T1B 6C | LLM1B N1D86 2 | 8 | F T | PLS | PLS DHC T |

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Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
UVS - ULTRAVIOLET SPECTROMETER SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| *E-0067 | PPS/DEV/PRB/UVS STATUS WORD | | T2A 01 | LLM2A N1D40 2 | 8 | V D | *UVS | P/D/P ST 1 |
| E-1790 | TC-TRANSDUCER TEMPERATURE | -102. to 74. Deg | T2A 64 | LLM2A N1D11 1 | 8 | V D | UVS | UVS TC T |
| E-1790 | | | | LLM2A N1D75 1 | | | UVS | |

*Repeated from PPS

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
MAG - MAGNETOMETER SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1860 | INBOARD SENSOR TEMPERATURE | -87. to 166. Deg | T1A 55 | LLM1A N1D12 1 | 8 | F T | MAG | MAG IB T |
| E-1861 | OUTBOARD SENSOR TEMPERATURE | -87. to 166. Deg | T1B 79 | LLM1B N1D12 1 | 8 | F T | MAG | MAG OB T |
| E-1862 | ADC TEMPERATURE | -78. to 100. Deg | T1A 6B | LLM1A N1D12 2 | 8 | F T | MAG | MAG ADC T |
| E-1863 | ANALOG ELECTRONICS TEMPERATURE | -78. to 100. Deg | T1B 57 | LLM1B N1D12 2 | 8 | F T | MAG | MAG ELEC T |
| #S-1844<br>S-1844 | MAG ZO AVERAGE/Z SENSOR OFFSET | | CDS BUS | LLM1A N1D03 1<br>LLM1B N1D03 1 | 16 | ? ? | MAG<br>MAG | MAG Z AVER |
| #S-1846<br>S-1846 | MAG YO AVERAGE/Y SENSOR OFFSET | | CDS BUS | LLM1A N1D40 1<br>LLM1B N1D40 1 | 16 | ? ? | MAG<br>MAG | MAG Y AVER |
| #S-1848<br>S-1848 | MAG XO AVERAGE/X SENSOR OFFSET | | CDS BUS | LLM1A N1D77 1<br>LLM1B N1D77 1 | 16 | ? ? | MAG<br>MAG | MAG X AVER |

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Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
SSI - SOLID STATE IMAGE SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1880 | FRONT OPTICS TEMPERATURE | -102. to 74. Deg | T2A 68 | LLM2A N1D54 1 | 8 | F T | SSI | SSI F OP T |
| E-1880 | | | | LLM2A N1D55 1 | | | SSI | |
| E-1880 | | | | LLM2A N1D73 1 | | | SSI | |
| E-1881 | REAR OPTICS TEMPERATURE | -102. to 74. Deg | T2A 74 | LLM2A N1D54 2 | 8 | F T | SSI | SSI R OP T |
| E-1881 | | | | LLM2A N1D55 2 | | | SSI | |
| E-1881 | | | | LLM2A N1D73 2 | | | SSI | |
| E-1882 | RADIATOR PLATE TEMPERATURE | -206. to 50. Deg | T2A 71 | LLM2A N1D17 1 | 8 | F T | SSI | SSI R PL T |
| E-1882 | | | | LLM2A N1D18 1 | | | SSI | |
| E-1882 | | | | LLM2A N1D36 1 | | | SSI | |
| E-1883 | CCD HOUSING TEMPERATURE | -102. to 74. Deg | T2A 55 | LLM2A N1D17 2 | 8 | F T | SSI | SSI HSG T |
| E-1883 | | | | LLM2A N1D18 2 | | | SSI | |
| E-1883 | | | | LLM2A N1D36 2 | | | SSI | |
| E-1884 | REAR ELECTRONICS TEMPERATURE | -102. to 74. Deg | T2A 6D | LLM2A N1D71 1 | 8 | F T | SSI | SSI R EL T |
| E-1884 | | | | LLM2A N1D72 1 | | | SSI | |
| E-1884 | | | | LLM2A N1D90 1 | | | SSI | |
| E-1885 | FRONT ELECTRONICS TEMPERATURE | -102. to 74. Deg | T2A 5D | LLM2A N1D71 2 | 8 | F T | SSI | SSI F EL T |
| E-1885 | | | | LLM2A N1D72 2 | | | SSI | |
| E-1885 | | | | LLM2A N1D90 2 | | | SSI | |
| #S-1840 | SSI STATE VECTOR STATUS BYTE | | CDS BUS | LLM2B N1D17 2 | 8 | ? ? | SSI | SSI ST VEC |
| S-1840 | | | | LLM2B N1D18 2 | | | SSI | |
| S-1840 | | | | LLM2B N1D36 2 | | | SSI | |
| #S-1841 | SSI IMAGE MODE/COMPRESSOR STATUS BYTE | | CDS BUS | LLM2B N1D15 1 | 8 | ? ? | SSI | SSI IM/CMP |
| S-1841 | | | | LLM2B N1D51 1 | | | SSI | |
| S-1841 | | | | LLM2B N1D70 1 | | | SSI | |
| #S-1842 | SSI ACTUAL FILTER/WATCHDOG TRIP STATUS BYTE | | CDS BUS | LLM2B N1D15 2 | 8 | ? ? | SSI | SSI FI/WDT |
| S-1842 | | | | LLM2B N1D51 2 | | | SSI | |
| S-1842 | | | | LLM2B N1D70 2 | | | SSI | |
| S-1881 | SSI INPUT CURRENT | | CDS BUS | LLM2B N1D71 1 | 8 | ? ? | SSI | SSI IN CUR |
| S-1881 | | | | LLM2B N1D72 1 | | | SSI | |
| S-1881 | | | | LLM2B N1D90 1 | | | SSI | |
| S-1886 | SSI +5 VOLTAGE | | CDS BUS | LLM2B N1D71 2 | 8 | ? ? | SSI | SSI +5V |
| S-1886 | | | | LLM2B N1D72 2 | | | SSI | |
| S-1886 | | | | LLM2B N1D90 2 | | | SSI | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
SSI - SOLID STATE IMAGE SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| S-1888 | SSI CCD HEATER VOLTAGE | | CDS BUS | LLM2B N1D34 1 | 8 | ? ? | SSI | CCD HEAT V |
| S-1888 | | | | LLM2B N1D35 1 | | | SSI | |
| S-1888 | | | | LLM2B N1D53 1 | | | SSI | |
| S-1890 | SSI BASELINE CORR VOLTAGE | | CDS BUS | LLM2B N1D34 2 | 8 | ? ? | SSI | SSI BASE V |
| S-1890 | | | | LLM2B N1D35 2 | | | SSI | |
| S-1890 | | | | LLM2B N1D53 2 | | | SSI | |
| S-1894 | SSI CCD COARSE TEMPERATURE | | CDS BUS | LLM2B N1D16 1 | 8 | ? ? | SSI | CCD T CORS |
| S-1894 | | | | LLM2B N1D88 1 | | | SSI | |
| S-1894 | | | | LLM2B N1D89 1 | | | SSI | |
| S-1912 | SSI PICTURE COUNT | | CDS BUS | LLM2B N1D16 2 | 8 | ? ? | SSI | SSI PICCNT |
| S-1912 | | | | LLM2B N1D88 2 | | | SSI | |
| S-1912 | | | | LLM2B N1D89 2 | | | SSI | |
| S-1915 | SSI PROGRAMMED MEMORY READOUT WORD | | CDS BUS | LLM2B N1D17 1 | 8 | ? ? | SSI | SSI PMEMWD |
| S-1915 | | | | LLM2B N1D18 1 | | | SSI | |
| S-1915 | | | | LLM2B N1D36 1 | | | SSI | |
| #S-1918 | SSI RAM CHECKSUM | | CDS BUS | LLM2B N1D54 1 | 8 | ? ? | SSI | SSI RAMCHK |
| S-1918 | | | | LLM2B N1D55 1 | | | SSI | |
| S-1918 | | | | LLM2B N1D73 1 | | | SSI | |
| #S-1919 | SSI ROM CHECKSUM | | CDS BUS | LLM2B N1D54 2 | 8 | ? ? | SSI | SSI ROMCHK |
| S-1919 | | | | LLM2B N1D55 2 | | | SSI | |
| S-1919 | | | | LLM2B N1D73 2 | | | SSI | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
NIMS - NEAR INFRARED MAGNETOMETER SPECTROMETER

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1910 | FOCAL PLANE TEMPERATURE | -206. to 50. Deg | T2A 51 | LLM2A N1D34 1 | 8 | F T | NIMS | NIM FPA R |
| E-1910 | | | | LLM2A N1D35 1 | | | NIMS | |
| E-1910 | | | | LLM2A N1D53 1 | | | NIMS | |
| E-1911 | RADIATOR SHIELD TEMPERATURE | -206. to 50. Deg | T2A 70 | LLM2A N1D34 2 | 8 | F T | NIMS | NIM SHLD T |
| E-1911 | | | | LLM2A N1D35 2 | | | NIMS | |
| E-1911 | | | | LLM2A N1D53 2 | | | NIMS | |
| E-1912 | TELESCOPE TEMPERATURE | -206. to 50. Deg | T2A 62 | LLM2A N1D16 1 | 8 | F T | NIMS | NIM TEL T |
| E-1912 | | | | LLM2A N1D88 1 | | | NIMS | |
| E-1912 | | | | LLM2A N1D89 1 | | | NIMS | |
| E-1913 | GRATING MECHANISM TEMPERATURE | -206. to 50. Deg | T2A 52 | LLM2A N1D16 2 | 8 | F T | NIMS | NIM GRAT T |
| E-1913 | | | | LLM2A N1D88 2 | | | NIMS | |
| E-1913 | | | | LLM2A N1D89 2 | | | NIMS | |
| E-1914 | OPTICAL CHOPPER TEMPERATURE | -206. to 50. Deg | T2A 63 | LLM2A N1D15 1 | 8 | F T | NIMS | NIM CHOP T |
| E-1914 | | | | LLM2A N1D51 1 | | | NIMS | |
| E-1914 | | | | LLM2A N1D70 1 | | | NIMS | |
| E-1915 | ELECTRONICS CHASSIS TEMPERATURE | -206. to 74. Deg | T2A 54 | LLM2A N1D15 2 | 8 | F T | NIMS | NIM ELEC T |
| E-1915 | | | | LLM2A N1D51 2 | | | NIMS | |
| E-1915 | | | | LLM2A N1D70 2 | | | NIMS | |
| E-1916 | FLEXPRINT TEMPERATURE | -78. to 100. Deg | T2A 5E | LLM2A N1D14 1 | 8 | F T | NIMS | NIM FLEX R |
| E-1916 | | | | LLM2A N1D33 1 | | | NIMS | |
| E-1916 | | | | LLM2A N1D69 1 | | | NIMS | |
| S-1924 | NIMS POWER SUPPLY CURRENT | | CDS BUS | LLM2A N1D63 1 | 8 | ? ? | NIMS | NIM PS I |
| S-1924 | | | | LLM2B N1D23 1 | | | NIMS | |
| S-1924 | | | | LLM2B N1D41 1 | | | NIMS | |
| S-1924 | | | | LLM2B N1D79 1 | | | NIMS | |
| S-1925 | NIMS MIRROR DRIVE CURRENT | | CDS BUS | LLM2A N1D63 2 | 8 | ? ? | NIMS | NIM MIR I |
| S-1925 | | | | LLM2B N1D23 2 | | | NIMS | |
| S-1925 | | | | LLM2B N1D41 2 | | | NIMS | |
| S-1925 | | | | LLM2B N1D79 2 | | | NIMS | |
| S-1926 | NIMS GRATING DRIVE CURRENT | | CDS BUS | LLM2A N1D80 1 | 8 | ? ? | NIMS | NIM GRAT I |
| S-1926 | | | | LLM2B N1D04 1 | | | NIMS | |
| S-1926 | | | | LLM2B N1D42 1 | | | NIMS | |
| S-1926 | | | | LLM2B N1D77 1 | | | NIMS | |
| S-1927 | NIMS REFERENCE VOLTAGE | | CDS BUS | LLM2A N1D80 2 | 8 | ? ? | NIMS | NIM REF V |
| S-1927 | | | | LLM2B N1D04 2 | | | NIMS | |
| S-1927 | | | | LLM2B N1D42 2 | | | NIMS | |
| S-1927 | | | | LLM2B N1D77 2 | | | NIMS | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
NIMS - NEAR INFRARED MAGNETOMETER SPECTROMETER

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| S-1929 | NIMS HARDWARE STATUS | | CDS BUS | LLM2A N1D43 1 | 8 | ? ? | NIMS | NIMHWSTAT |
| S-1929 | | | | LLM2B N1D05 1 | | | NIMS | |
| S-1929 | | | | LLM2B N1D40 1 | | | NIMS | |
| S-1929 | | | | LLM2B N1D58 1 | | | NIMS | |
| S-1930 | NIMS SOFTWARE STATUS | | CDS BUS | LLM2A N1D43 2 | 8 | ? ? | NIMS | NIMSWSTAT |
| S-1930 | | | | LLM2B N1D05 2 | | | NIMS | |
| S-1930 | | | | LLM2B N1D40 2 | | | NIMS | |
| S-1930 | | | | LLM2B N1D58 2 | | | NIMS | |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
SCAS - SCIENCE CALIBRATION SUBSYSTEM

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1945 | RCT-NIMS TEMPERATURE-PT | -102. to 74. Deg | T2A 7D | LLM2A N1D05 1 | 8 | F T | SCAS | NMSRCT PIT |
| E-1946 | RCT-NIMS TEMPERATURE-NI | -48. to 47. Deg | T2A 78 | | 8 | F T | SCAS | NMSRCT NIT |
| E-1947 | RCT-NIMS REFERENCE R | 999.90 to 999.90TBD | T2A 7C | LLM2A N1D05 2 | 8 | F T | SCAS | NMSRCT R |
| E-1948 | PCT TEMPERATURE | -102. to 74. Deg | T1B 5A | | 8 | F T | SCAS | PCT T |

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Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
XSDC - X-BAND TO S-BAND DOWNCONVERTER

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1980 | X/S DC LO VOLTAGE | TBD to TBD TBD | T1A 32 | | 8 | F A | XSDC | XSDC LO V |
| E-1981 | X/S DC POWER SUPPLY VOLTAGE | 0. to 9. Volt | T1B 32 | | 8 | F A | XSDC | XSDC POW V |
| E-1982 | X/S DC TEMPERATURE | -78. to 100. Deg | T1B 68 | | 8 | F T | XSDC | XSDC TEMP |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
RRH - RADIO RELAY HARDWARE

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| *E-1950 | PROBE/RRH STATUS WORD 1 | | T2A 02 | | 8 | F D | *RRH | P/R/IM ST1 |
| *E-1951 | PROBE/RRH STATUS WORD 2 | | T2B 02 | | 8 | F D | *RRH | P/R/IM ST2 |
| E-1960 | RRA POSITION POT 1 | 0. to 115. Deg | T2A 4B | | 8 | F A | RRH | RR POT1POS |
| E-1961 | RRA POSITION POT 2 | 0. to 115. Deg | BDM 00 | | 8 | A | RRH | RR POT2POS |
| E-1965 | RECEIVE 1 TEMPERATURE | -78. to 100. Deg | T2A 76 | | 8 | F T | RRH | RR RCVR1 T |
| E-1966 | RECEIVE 2 TEMPERATURE | -78. to 100. Deg | T2A 6A | | 8 | F T | RRH | RR RCVR2 T |
| E-1967 | OSCILLATOR 1 TEMPERATURE | -78. to 100. Deg | T2A 57 | | 8 | F T | RRH | RR OSC 1 T |
| E-1968 | OSCILLATOR 2 TEMPERATURE | -78. to 100. Deg | T2A 7E | | 8 | F T | RRH | RR OSC 2 T |

*Repeat from PROBE

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Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
OPE - ORBITER PURGE EQUIPMENT

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF BITS | FLAGS | SUB SYSTEM | 10-CHAR TITLE |
|---|---|---|---|---|---|---|---|---|
| E-1970 | OPE PRESSURE 1 | 0. to 50. PSIA | T2A 31 | | 8 | F A | OPE | OPE PRES 1 |

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Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)
PRB - PROBE EQUIPMENT

| NUMBER | MEASUREMENT TITLE | ENGINEERING RANGE | TREE POS | COMM POS | NO. OF | FLAGS | SUB | 10-CHAR |
|---|---|---|---|---|---|---|---|---|
| E-1950 | PROBE/RRH STATUS WORD 1 | | T2A 02 | | 8 | F D | PRB | P/R/IM ST1 |
| E-1951 | PROBE/RRH STATUS WORD 2 | | T2B 02 | | 8 | F D | PRB | P/R/IM ST2 |
| E-1952 | COMMUNICATIONS SHELF TEMPERATURE | -102. to 74. Deg | T2A 50 | | 8 | F T | PRB | COM SHLF T |
| E-1953 | SHELF TEMPERATURE 1 | -102. to 74. Deg | T2A 61 | | 8 | F T | PRB | SHELF T 1 |
| E-1954 | SHELF TEMPERATURE 2 | -102. to 74. Deg | T2A 72 | | 8 | F T | PRB | SHELF T 2 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)

Phase 2 Spare Fixed Decom Commutator Slots

| | | | |
|---|---|---|---|
| Spare Commutator Slot | LLM1B | N1D00 1 | 8 |
| Spare Commutator Slot | LLM1B | N1D00 2 | 8 |
| Spare Commutator Slot | LLM1B | N1D06 1 | 8 |
| Spare Commutator Slot | LLM1B | N1D06 2 | 8 |
| Spare Commutator Slot | LLM1B | N1D30 2 | 8 |
| Spare Commutator Slot | LLM1B | N1D73 1 | 8 |
| Spare Commutator Slot | LLM1B | N1D73 2 | 8 |
| Spare Commutator Slot | LLM1B | N1D89 1 | 8 |
| Spare Commutator Slot | LLM1B | N1D89 2 | 8 |
| | | | |
| Spare Commutator Slot | LLM2A | N1D03 1 | 8 |
| Spare Commutator Slot | LLM2A | N1D03 2 | 8 |
| Spare Commutator Slot | LLM2A | N1D20 1 | 8 |
| Spare Commutator Slot | LLM2A | N1D20 2 | 8 |
| Spare Commutator Slot | LLM2A | N1D37 1 | 8 |
| Spare Commutator Slot | LLM2A | N1D37 2 | 8 |
| Spare Commutator Slot | LLM2A | N1D57 1 | 8 |
| Spare Commutator Slot | LLM2A | N1D57 2 | 8 |
| Spare Commutator Slot | LLM2A | N1D74 1 | 8 |
| Spare Commutator Slot | LLM2A | N1D74 2 | 8 |
| | | | |
| Spare Commutator Slot | LLM2B | N1D03 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D03 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D09 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D11 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D11 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D14 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D20 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D20 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D21 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D21 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D25 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D25 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D30 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D30 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D31 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D31 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D33 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D37 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D37 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D43 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D43 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D46 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D46 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D48 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D48 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D57 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D57 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D63 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D63 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D67 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D67 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D68 1 | 8 |

Table A2.2.8. Engineering Measurements (RJ:all_chan - 11/01/94)

Phase 2 Spare Fixed Decom Commutator Slots (Cont)

| | | | |
|---|---|---|---|
| Spare Commutator Slot | LLM2B | N1D68 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D69 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D74 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D74 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D75 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D75 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D80 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D80 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D83 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D83 2 | 8 |
| Spare Commutator Slot | LLM2B | N1D85 1 | 8 |
| Spare Commutator Slot | LLM2B | N1D85 2 | 8 |