

Payload management status Report
File: H_FCP_CCU_REPO.xls
Author: E. Picallo



Procedure Summary

Objectives

This procedure describes the steps needed to acquire the status of the ASW function "Payload Management" (0xFF for running idle or 0x00 for stopped).

Moreover in the TM packet are also reported the following information:

- CCU A Monitoring Status;
- CCU B Monitoring Status;
- CCU A default period;
- CCU A default monitoring data words #2, #3, #4, #5, #6;
- CCU A current period;
- CCU A current monitoring data words #2, #3, #4, #5, #6;
- CCU B default period;
- CCU B default monitoring data words #2, #3, #4, #5, #6;
- CCU B current period;
- CCU B current monitoring data words #2, #3, #4, #5, #6.

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

- CDMU in default configuration, that is:
- PM A or B ON (nominally A)
 - TM Encoder/OBT A or B active (nominally A)
 - RM A and B enabled
 - MM A and B ON

End of Procedure

- CDMU in default configuration, that is:
- PM A or B ON (nominally A)
 - TM Encoder/OBT A or B active (nominally A)
 - RM A and B enabled
 - MM A and B ON

Reference File(s)

Input Command Sequences

Output Command Sequences

HFKREPO

Referenced Displays

ANDs GRDs SLDs
(None)

Configuration Control Information

Status : Version 6 - Unchanged
Last Checkin: 07/04/09

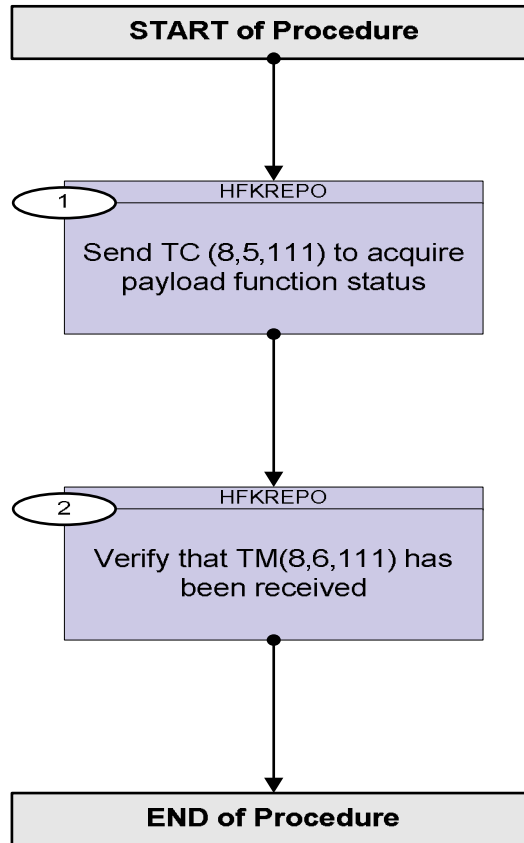
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DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
28/07/08	1	1	Created	E. Picallo	
21/10/08		2	Display mode update	E. Picallo	
09/01/09		3	CDMU ASW V3.8 and BSW V2.4 alignment	E. Picallo	
13/01/09	2	4	Default CCUA/B DWs (align with CDMU ASW V3.8) added	E. Picallo	
05/03/09	2.1	5	updated with CDMU ASW 3.8.2 CCUs_DEF_MON_DWs default values	E. Picallo	
07/04/09	2.3	6	Comment on DEFAULT values of DW #2-#6 in the report packets added	E. Picallo	



Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
TC Seq. Name : HFKREPO (Payload Report) Report payload management function and payload status TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
1		Send TC (8,5,111) to acquire payload function status		Next Step: 2
		Report Payload Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand <div style="text-align: right;">ReportPayloadManagSts</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report Payload Management Status TC(8,5,111)	DC12M170	
2		Verify that TM(8,6,111) has been received		Next Step: END
		Only one of the following two Payload Management Status Report TM(8,6,111) will be received. - If the function is started:		
		Verify Packet Reception TM 8-6-111 Payload Management Status Report - running idle Packet Details: <div style="text-align: right;"> APID: 16 Type: 8 Subtype: 6 PI1: 28671 PI2: 0 </div>	PayldMngRun	
		- If the function is stopped:		
		Verify Packet Reception TM 8-6-111 Payload Management Status Report - stopped Packet Details: <div style="text-align: right;"> APID: 16 Type: 8 Subtype: 6 PI1: 28416 PI2: 0 </div>	PayldMngStop	
		Verify Packet Telemetry <div style="text-align: right;"> Function_ID DE008170 </div>	= Payload_Manag	(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Telemetry PayldManagActId DE249170		(None)
		Verify Packet Telemetry SID DE010170	= 0 <dec>	(None)
		Verify CCU A Monitoring Status Telemetry CCUAMonStatus DEZA4170		(None)
		Verify CCU B Monitoring Status Telemetry CCUBMonStatus DEZA5170		(None)
		Verify CCU A Default Period in seconds Telemetry CcuADfltPeriod DE250170		(None)
		Verify CCU A Default Monitoring Data Word #2 Telemetry CcuADfltMonDW2 DE251170		(None)
		Verify CCU A Default Monitoring Data Word #3 Telemetry CcuADfltMonDW3 DE252170		(None)
		Verify CCU A Default Monitoring Data Word #4 Telemetry CcuADfltMonDW4 DE253170		(None)
		Verify CCU A Default Monitoring Data Word #5 Telemetry CcuADfltMonDW5 DE254170		(None)
		Verify CCU A Default Monitoring Data Word #6 Telemetry CcuADfltMonDW6 DE255170		(None)
		Verify CCU A Current Period in seconds Telemetry CcuACurrPeriod DE256170		(None)
		Verify CCU A Current Monitoring Data Word #2 Telemetry CcuACurrMonDW2 DE257170		(None)
		Verify CCU A Current Monitoring Data Word #3 Telemetry CcuACurrMonDW3 DE258170		(None)
		Verify CCU A Current Monitoring Data Word #4 Telemetry CcuACurrMonDW4 DE259170		(None)
		Verify CCU A Current Monitoring Data Word #5 Telemetry CcuACurrMonDW5 DE260170		(None)
		Verify CCU A Current Monitoring Data Word #6 Telemetry CcuACurrMonDW6 DE261170		(None)
		Verify CCU B Default Period in seconds Telemetry CcuBDfltPeriod DE262170		(None)
		Verify CCU B Default Monitoring Data Word #2 Telemetry CcuBDfltMonDW2 DE263170		(None)
		Verify CCU B Default Monitoring Data Word #3 Telemetry CcuBDfltMonDW3 DE264170		(None)
		Verify CCU B Default Monitoring Data Word #4 Telemetry CcuBDfltMonDW4 DE265170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify CCU B Default Monitoring Data Word #5 Telemetry CcuBDfltMonDW5 DE266170		(None)
		Verify CCU B Default Monitoring Data Word #6 Telemetry CcuBDfltMonDW6 DE267170		(None)
		Verify CCU B Current Period in seconds Telemetry CcuBCurrPeriod DE268170		(None)
		Verify CCU B Current Monitoring Data Word #2 Telemetry CcuBCurrMonDW2 DE269170		(None)
		Verify CCU B Current Monitoring Data Word #3 Telemetry CcuBCurrMonDW3 DE270170		(None)
		Verify CCU B Current Monitoring Data Word #4 Telemetry CcuBCurrMonDW4 DE271170		(None)
		Verify CCU B Current Monitoring Data Word #5 Telemetry CcuBCurrMonDW5 DE272170		(None)
		Verify CCU B Current Monitoring Data Word #6 Telemetry CcuBCurrMonDW6 DE273170		(None)
		<p>Expected nominal parameters values are: CCU A Monitoring Status: Enabled CCU B Monitoring Status: Enabled</p> <p>CCU_A_Default Period: 512 sec (8 min 32 sec) CCU_A_Default DW#2 65527 (0xFFF7) CCU_A_Default DW#3 63487 (0xF7FF) CCU_A_Default DW#4 65023 (0xFDFF) CCU_A_Default DW#5 49151 (0xBFFF) CCU_A_Default DW#6 65533 (0xFFFD)</p> <p>CCU A Current Period: as specified in TC "Perform CCU Monitoring" (Monitoring Period) CCU A Current Monitoring DW#2 to #6: as specified in TC "Perform CCU Monitoring" (Monitoring DW#2 to #6)</p>		
		<p>CCU_B_Default Period: 512 sec (8 min 32 sec) CCU_B_Default DW#2 65279 (0xFEFF) CCU_B_Default DW#3 65535 (0xFFFF) CCU_B_Default DW#4 64767 (0xFCFF) CCU_B_Default DW#5 65535 (0xFFFF) CCU_B_Default DW#6 65533 (0xFFFD)</p> <p>CCU B Current Period: as specified in TC "Perform CCU Monitoring" (Monitoring Period) CCU B Current Monitoring DW#2 to #6: as specified in TC "Perform CCU Monitoring" (Monitoring DW#2 to #6)</p>		
		The DEFAULT values of DW #2-#6 in the report packets will only be those reported above when the start monitoring command has been sent with those values or with the period set to 0xFFFF (new implementation in CDMS Version 3.8.2)		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Data Words lay out (DW #2to #6 vs Bit Index) 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 X2 X1 D5 D4 D3 D2 D1 C5 C4 C3 C2 C1 B2 B1 A2 A1 X6 X5 X4 X3 F7 F6 F5 F4 F3 F2 F1 E5 E4 E3 E2 E1 X7 Gf Ge Gd Gc Gb Ga G9 G8 G7 G6 G5 G4 G3 G2 G1 X8 Gu Gt Gs Gr Gq Gp Go Gn Gm Gl Gk Gj Gi Gh Gg M8 M7 M6 M5 M4 M3 M2 M1 I3 I2 I1 Xb Xa X9 H2 H1		
		Data Word 2: A1 Temp. sensor T1-0 used in DLCM A2 Temp. sensor T2-0 used in DLCM B1 Temp. sensor T1-1 B2 Temp. sensor T2-1 C1 Temp. sensor T1-2 C2 Temp. sensor T2-2 C3 Temp. sensor T3-2 C4 Temp. sensor T4-2 C5 Temp. sensor T5-2 D1 Temp. sensor T1-3 when T = [2-3] K D2 Temp. sensor T2-3 when T = [2-3] K D3 Temp. sensor T3-3 when T = [2-3] K D4 Temp. sensor T4-3 when T = [2-3] K D5 Temp. sensor T5-3 when T = [2-3] K		
		X1 Gain calib. resistor (s15) only in DLCM mode X2 Gain calib. resistor (s16)		
		Data Word 3: E1 Temp. sensor T1-3 when T > 3 K (gain = 240) E2 Temp. sensor T2-3 when T > 3 K (gain = 240) E3 Temp. sensor T3-3 when T > 3 K (gain = 240) E4 Temp. sensor T4-3 when T > 3 K (gain = 240) E5 Temp. sensor T5-3 when T > 3 K (gain = 240) F1 Temp. sensor T1-4 F2 Temp. sensor T2-4 F3 Temp. sensor T3-4 F4 Temp. sensor T4-4 F5 Temp. sensor T5-4 F6 Temp. sensor T6-4 F7 Temp. sensor T7-4 X3 Gain calib. resistor (s24) unused X4 Gain calib. resistor (s25) unused		
		X5 Gain calib. resistor (s26) for sensors above X6 Gain calib. resistor (s27) unused		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Data Word 4: G1 Temp. sensor T1-5 G2 Temp. sensor T2-5 G3 Temp. sensor T3-5 G4 Temp. sensor T4-5 G5 Temp. sensor T5-5 G6 Temp. sensor T6-5 G7 Temp. sensor T7-5 G8 Temp. sensor T8-5 G9 Temp. sensor T9-5 Ga Temp. sensor T10-5 Gb Temp. sensor T11-5 Gc Temp. sensor T12-5 Gd Temp. sensor T13-5 Ge Temp. sensor T14-5 Gf Temp. sensor T15-5 X7 Common mode calib. for using T15-5		
		Data Word 5: Gg Temp. sensor T16-5 Gh Temp. sensor T17-5 Gi Temp. sensor T18-5 Gj Temp. sensor T19-5 Gk Temp. sensor T20-5 Gl Temp. sensor T21-5 Gm Temp. sensor T22-5 Gn Temp. sensor T23-5 Go Temp. sensor T24-5 Gp Temp. sensor T25-5 Gq Temp. sensor T26-5 Gr Temp. sensor T27-5 Gs Temp. sensor T28-5 Gt Temp. sensor T29-5 Gu Temp. sensor T30-5 X8 Gain calib. resistor		
		Data Word 6: H1 Pressure sensor P1 CCU-A type 1, CCU-B type 2 H2 Pressure sensor P2 Not Used X9 Common mode calib. Xa in CCU-A, Xb in CCU-B Xa Gain calib. resistor (1) for pressure sensor in CCU-A Xb Gain calib. resistor (2) for pressure sensor in CCU-B I1 Valve 1 status VS1 I2 Valve 2 status VS2 I3 Valve 3 status VS3 M1 DLCM voltage (Gain calib.) ref. voltage for gain calib. M2 DLCM current (Gain calib.) ref. voltage for gain calib. M3 CCU internal temp. (M2M) meas. in M2M module M4 CCU internal voltage (+5V) M5 CCU internal voltage (+15V) M6 CCU internal voltage (+9.5V) M7 CCU internal temp. (VCM) meas. in VCM module M8 Zero reference		
End of Procedure				

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DW	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	(s16)	(s15)	T5-3	T4-3	T3-3	T2-3	T1-3	T5-2	T4-2	T3-2	T2-2	T1-2	T2-1	T1-1	T2-0	T1-0
3	(s27)	(s26) or (s25)	r(s24)	T7-4	T6-4	T5-4	T4-4	T3-4	T2-4	T1-4	T5-3	T4-3	T3-3	T2-3	T1-3	
4	Comm	T15-5	T14-5	T13-5	T12-5	T11-5	T10-5	T9-5	T8-5	T7-5	T6-5	T5-5	T4-5	T3-5	T2-5	T1-5
5	Gain	T30-5	T29-5	T28-5	T27-5	T26-5	T25-5	T24-5	T23-5	T22-5	T21-5	T20-5	T19-5	T18-5	T17-5	T16-5
6		Zero r(VCM) (+9.5V)(+15V) (+5V) temp. (M2M) DLCM curr DLCM volt:status VS3 status VS2:vs1 Gain calib. re Gain calib. Common: sensor P2 sensor P1														

DW2	CCU A	CCU B	CCU A							CCU B						
0	1	1	Gain calib. resistor (s16)							Gain calib. resistor (s16)						
1	1	1	Gain calib. resistor (s15)							Gain calib. resistor (s15)						
2	1	1	T 244 L1, on cooling strap to "HIFI L1" Interface , on FPU side							T 248 L1, on cooling strap to SPIRE Optical Bench , on FPU side						
3	1	1	T 242 L1, on cooling strap to PACS Photometer Optics", on FPU Side							T 237 L1, on Ventline downstream cooling strap to "HIFI L1" Interface						
4	1	1	T 236 L1, on Ventline downstream cooling strap to "SPIRE Optical Bench"							T 235 L1, on Ventline upstream cooling strap to "SPIRE Optical Bench"						
5	1	1	T 234 L1, on Ventline downstream cooling strap to "PACS Spectrometer Housing"							T 233 L1, on Ventline downstream cooling strap to "PACS Collimator"						
6	1	1	T 223 LD, on cooling strap to PACS Sorption Cooler Pump							T 226 LD, on cooling strap to "SPIRE Cooler Pump HS"						
7	1	0	T 232 L1, on Ventline downstream cooling strap to "PACS Photometer Optics"							T Spare Spare						
8	1	1	T 228 LD, on cooling strap to "HIFI LD"							T 231 L1, on Ventline upstream cooling strap to PACS Photometer Optics"						
9	1	1	T 227 LD, on cooling strap to SPIRE Cooler Evaporator HS							T 222 LD, on cooling strap to "PACS Sorption Cooler Evaporator"						
10	1	1	T 101 tank upper bulkhead, +x-z, integrated into FPS housing							T 112 tank upper bulkhead, +x-z, integrated into FPS housing						
11	1	1	T 108 tank lower bulkhead, +x-z,y							T 107 tank upper bulkhead, +x-z,y						
12	0	1	T Spa Spare							T 225 LD, on cooling strap to SPIRE SM Detector enclosure						
13	1	1	T 221 LD, on cooling strap to PACS RED Detector							T 224 LD, on cooling strap to "PACS BLUE Detector"						
14	1	1	T 102 DLCM-1, tank lower bulkhead, +x-y, integrated into DLCM housing							T 103 DLCM-2, tank lower bulkhead, +x-y, integrated into DLCM housing						
15	1	1	T 102 DLCM-2, tank lower bulkhead, +x-y, integrated into DLCM housing							T 101 DLCM-1, tank lower bulkhead, +x-y, integrated into DLCM housing						
			CCU A		F	F	F	F	F	F	F	F	F	F	F	F
			CCU B		F	F	F	F	F	F	F	F	F	F	F	F

DW3	CCU A	CCU B	CCU A							CCU B						
0	1	1	Gain calib. resistor (s27)							Gain calib. resistor (s27)						
1	1	1	Gain calib. resistor (s26)							Gain calib. resistor (s26)						
2	1	1	Gain calib. resistor (s25)							Gain calib. resistor (s25)						
3	1	1	Gain calib. resistor (s24)							Gain calib. resistor (s24)						
4	0	1	T Spa Spare							T B62 on upper SFW, +z; nearby chain 03/04						
5	1	1	T 258 OB Plate near SPIRE foot, -y-z							T 703 tank lower side, -x-z; nearby center						
6	1	1	T 254 OB Plate near SPIRE foot, center							T 256 OB Plate near SPIRE foot, +x-y						
7	1	1	T 250 L3, on cooling strap on Spire 2-JFET (JFET-Spec), on FPU side							T 252 L3, on cooling strap on Spire 6-JFET (JFET-Phot), on FPU side						
8	1	1	T 246 L3, on Ventline downstream cooling to 6-JFET (JFET-Phot)							T 247 L3, on Ventline downstream cooling to 2-JFET (JFET-Spec)						
9	1	1	T 212 OB Shield +x, close to PACS							T 213 OB Shield +x, close to SPIRE						
10	1	1	T 202 OB Plate near PACS mounting foot, +x+z							T 238 OB Plate near HIFI mounting foot, +x+z-y						
11	1	1	T 244 L1, on cooling strap to "HIFI L1" Interface , on FPU side							T 249 L1, on cooling strap to SPIRE Optical Bench , on FPU side						
12	1	1	T 242 L1, on cooling strap to PACS Photometer Optics", on FPU Side							T 237 L1, on Ventline downstream cooling strap to "HIFI L1" Interface						
13	1	1	T 236 L1, on Ventline downstream cooling strap to "SPIRE Optical Bench"							T 235 L1, on Ventline upstream cooling strap to "SPIRE Optical Bench"						
14	1	1	T 234 L1, on Ventline downstream cooling strap to "PACS Spectrometer Housing"							T 233 L1, on Ventline downstream cooling strap to "PACS Collimator"						
15	1	1	T 223 LD, on cooling strap to PACS Sorption Cooler Pump							T 226 LD, on cooling strap to "SPIRE Cooler Pump HS"						
			CCU A		F	F	F	F	F	F	F	F	F	F	F	F
			CCU B		F	F	F	F	F	F	F	F	F	F	F	F

DW4	CCU A	CCU B	CCU A							CCU B						
0	1	1	Common mode calib.							Common mode calib.						
1	1	1	T 454 Thermalshield 3, outside on upper cone close to beam entrance under ML, in +x+y plane							T 701 tank upper side, +x-z; nearby center						
2	1	1	T 451 Thermalshield 3, outside on lower bulkhead under ML, in +x+y plane							T 452 Thermalshield 3, outside on cylinder under ML, in +x+y plane						
3	1	1	T 442 Thermalshield 2, outside on cylinder under ML, in +x+y plane							T 444 Thermalshield 2, outside on upper cone close to beam entrance under ML						
4	1	1	T 424 Thermalshield 1, outside on upper cone close to beam entrance under ML, in +x+y plane							T 441 Thermalshield 2, outside on lower bulkhead under ML, in +x+y plane						
5	1	1	T 421 Thermalshield 1, outside on lower bulkhead under ML, in +x+y plane							T 422 Thermalshield 1, outside on cylinder under ML, in +x+y plane						
6	0	0	T Spa Spare							T Spare Spare						
7	1	1	T 911 CVV outside, on -z Radiator upper part							T Spare Spare						
8	1	1	T 907 CVV outside, on +y Radiator upper part							T 934 Wave Guides near LOU						
9	1	1	T 903 CVV outside lower bulkhead -z							T 932 LOU Radiator, on +z						
10	1	1	T 901 CVV outside upper bulkhead, on upper plane, -z							T 910 CVV outside, on -y Radiator upper part						
11	1	1	T 651 On Baffle, cylinder outside, -z							T 906 CVV outside upper bulkhead, on lower spline, +y						
12	1	1	T 526 near nozzle N611, CVV Cylinder external -z							T 904 CVV outside lower bulkhead +z						
13	1	1	T 324 SVM Shield, on top -y							T 315 Sunshade structure, center panel bottom						
14	1	1	T 323 SVM Shield, on top -z,y							T 313 Sunshade structure, -y panel top						
15	1	1	T 321 SVM Shield, on top +y							T 311 Sunshade structure, +y panel top						
			CCU A		F	D	F	F	F	F	F	F	F	F	F	F
			CCU B		F	C	F	F	F	F	F	F	F	F	F	F

DW5	CCU A	CCU B	CCU A							CCU B						
0	1	1	Gain calib. resistor							Gain calib. resistor						
1	0	0	T Spa Spare							T 342 on telescope, M2 THZ						
2	1	1	T 935 Wave Guides near SVM							T 907 integrated into ventline unit						
3	1	1	T 933 LOU Radiator							T 912 CVV outside, on -z Radiator lower part						
4	1	1	T 931 LOU Baseplate, on -Z							T 908 CVV outside, on +y Radiator lower part						
5	1	1	T 341 on telescope, M2 THZ							T 902 CVV outside upper bulkhead, on lower spline, -z						
6	1	1	T 339 on telescope, M2 THZ							T 652 On Baffle, cylinder outside, +z						
7	1	1	T 337 on telescope, MITHC							T 526 near nozzle N611, CVV Cylinder external -z						
8	1	1	T 335 on telescope, MITHC							T 504 near nozzle N613, CVV Cylinder external -z						
9	1	1	T 333 on telescope, MITHA							T 324 SVM Shield, on top -y						
10	1	1	T 331 on telescope, MITHA							T 322 SVM Shield, on top +y-z						
11	1	1	T 905 CVV outside, on -y Radiator lower part							T 340 on telescope, MITHC						
12	1	1	T 905 CVV outside upper bulkhead, on lower spline, +z							T 338 on telescope, MITHB						
13	1	1	T 316 Sunshade structure, center panel top							T 336 on telescope, MITHB						
14	1	1	T 314 Sunshade structure, -y panel bottom							T 334 on telescope, MITHB						
15	1	1	T 312 Sunshade structure, +y panel bottom							T 332 on telescope, MITHA						
			CCU A		B	F	F	F	F	F	F	F	F	F	F	F
			CCU B		F	F	F	F	F	F	F	F	F	F	F	F

DW6	CCU A	CCU B	CCU A							CCU B						
0	1	1	Zero reference							Zero reference						
1	1	1	CCU internal temp. (VCM)							CCU internal temp. (VCM)						
2	1	1	CCU internal voltage (+9.5V)							CCU internal voltage (+9.5V)						
3	1	1	CCU internal voltage (+15V)							CCU internal voltage (+15V)						
4	1	1	CCU internal voltage (+5V)							CCU internal voltage (+5V)						
5	1	1	CCU internal temp. (M2M)							CCU internal temp. (M2M)						
6	1	1	DLCM current (Gain calib.)							DLCM current (Gain calib.)						
7	1	1	DLCM voltage (Gain calib.) 72							DLCM voltage (Gain calib.) 72						
8	1	1	Valve 3 status VS3							Valve 3 status VS3						
9	1	1	Valve 2 status VS2							Valve 2 status VS2						
10	1	1	Valve 1 status VS1							Valve 1 status VS1						
11	1	1	Gain calib. resistor (2)							Gain calib. resistor (2)						
12	1	1	Gain calib. resistor (1)							Gain calib. resistor (1)						
13	1	1	Common mode calib.							Common mode calib.						
14	0	0	Pressure sensor P2							Pressure sensor P2						
15	1	1	Pressure sensor P1							Pressure sensor P1						
			CCU A		F	F	F	F	D							
			CCU B		F	F	F	F	D							

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			CCU A	F	F	F	D												
			CCU B	F	F	F	D												

Status : Version 6 - Unchanged
Last Checkin: 07/04/09