

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



## Procedure Summary

### Objectives

This procedure describes the steps needed to verify the overall Control and Data Management Subsystem status in all S/C modes.

### Summary of Constraints

n/a

### Spacecraft Configuration

**Start of Procedure**

n/a

**End of Procedure**

n/a

### Reference File(s)

**Input Command Sequences**

**Output Command Sequences**

### Referenced Displays

**ANDs**      **GRDs**      **SLDs**  
 (None)

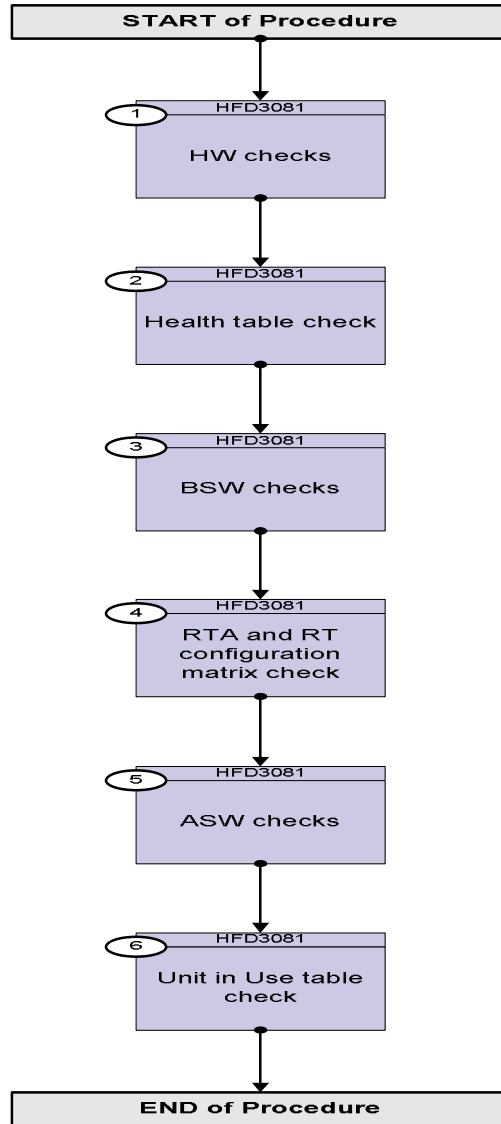
### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
07/02/08		1	Created	cmevi-hp	
19/02/08		2	TC flags updated.	cmevi-hp	
19/02/08		3	DB checked.	cmevi-hp	
24/06/08	1	4	DB check	S. Manganelli	
01/12/08		5	Procedure updated according to latest version received from industry on 24/10/2008	cmevi-hp	
13/01/09	2	6	Updated following OBSW 3_8	S. Manganelli	
14/04/09	2.3	7	Added TFLTM parameters at step 4 following TAS inputs	S. Manganelli	

CDMS Subsystem Checkout  
File: H\_FCP\_DHS\_3081.xls  
Author: S. Manganelli



## Procedure Flowchart Overview



CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>Beginning of Procedure</b>				
TC Seq. Name :HFD3081 (CDMS Subsystem Check)				
TimeTag Type: N				
Sub Schedule ID:				
□				
1		HW checks		Next Step: 2
		<b>CDMU FCLs and LCLs</b>		
		Verify Telemetry CdmuHotA_FCL1_I WM802565	<= 0.86 A	
		Verify Telemetry CdmuHotA_FCL1_V WM803565	>= 26.6 V <= 28.3 V	
		Verify Telemetry CdmuHotB_FCL2_I WM302565	<= 0.86 A	
		Verify Telemetry CdmuHotB_FCL2_V WM303565	>= 26.6 V <= 28.3 V	
		Verify Telemetry CdmuColdA_L31_S WM22B565	= ON	
		Verify Telemetry CdmuColdA_L31_I WM207565	<= 1.12 A	
		Verify Telemetry CdmuColdB_L32_S WM92B565	= ON	
		Verify Telemetry CdmuColdB_L32_I WM907565	<= 1.12 A	
		<b>V3 HOT OVP TM NOM</b>		
		Verify Telemetry HKA_AN1_Interr DED4G160	>= 3.27 V <= 3.44 V	
		<b>V5 HOT TM NOM</b>		
		Verify Telemetry HKA_AN2_Interr DED51160	>= 5.15 V <= 5.35 V	
		<b>V15 HOT TM NOM</b>		
		Verify Telemetry HKA_AN3_Interr DED5G160	>= 14.58 V <= 16.08 V	
		<b>VN15 HOT TM NOM</b>		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry HKA_AN4_Interr DED61160	<= -14.8 V >= -16.43 V	
		<b>V28 HOT TM NOM</b>		
		Verify Telemetry HKA_AN5_Interr DED6G160	>= 27.65 V <= 31.55 V	
		<b>V3 COLD TM NOM</b>		
		Verify Telemetry HKA_AN6_Interr DED71160	>= 3.27 V <= 3.44 V	
		<b>V5 CONT TM</b>		
		Verify Telemetry HKA_AN7_Interr DED7G160	>= 5.1 V <= 5.35 V	
		<b>V15 CONT TM</b>		
		Verify Telemetry HKA_AN8_Interr DED81160	>= 14.1 V <= 16.8 V	
		<b>TEMP HOT TM NOM</b>		
		Verify Telemetry HKA_ANTH5_Inter DEDDG160	>= -15.0 degC <= 69.0 degC	
		<b>TEMP COLD TM NOM</b>		
		Verify Telemetry HKA_ANTH6_Inter DEDE1160	>= -15.0 degC <= 72.0 degC	
		<b>TEMP REF</b>		
		Verify Telemetry HKA_ANTH8_Inter DEDEG160	>= -15.0 degC <= 50.0 degC	
		<b>V3 HOT OVP TM RED</b>		
		Verify Telemetry HKB_AN1_Interr DED8G160	>= 3.27 V <= 3.44 V	
		<b>V5 HOT TM RED</b>		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry HKB_AN2_Interr DED91160	> 5.15 V <= 5.35 V	
		<b>V15 HOT TM RED</b>		
		Verify Telemetry HKB_AN3_Interr DED9G160	>= 14.58 V <= 16.08 V	
		<b>VN15 HOT TM RED</b>		
		Verify Telemetry HKB_AN4_Interr DEDA1160	<= -14.8 V >= -16.43 V	
		<b>V28 HOT TM RED</b>		
		Verify Telemetry HKB_AN5_Interr DEDAG160	>= 27.65 V <= 31.55 V	
		<b>V3 COLD TM RED</b>		
		Verify Telemetry HKB_AN6_Interr DEDB1160	>= 3.27 V <= 3.44 V	
		<b>VN15 CONT TM</b>		
		Verify Telemetry HKB_AN7_Interr DEDBG160	<= -14.1 V >= -15.84 V	
		<b>V28 CONT TM</b>		
		Verify Telemetry HKB_AN8_Interr DEDC1160	>= 27.5 V <= 30.6 V	
		<b>TEMP HOT TM RED</b>		
		Verify Telemetry HKB_ANTH5_Inter DEDG1160	>= -15.0 degC <= 69.0 degC	
		<b>TEMP COLD TM RED</b>		
		Verify Telemetry HKB_ANTH6_Inter DEDGG160	>= -15.0 degC <= 72.0 degC	
		<b>VAB_AN25/75FS</b>		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry VA_AN25FS_Inter DEDCG160	>= 1.192 V <= 1.218 V	
		Verify Telemetry VA_AN75FS_Inter DEDD1160	>= 3.763 V <= 3.827 V	
		Verify Telemetry VB_AN25FS_Inter DEDF1160	>= 1.192 V <= 1.218 V	
		Verify Telemetry VB_AN75FS_Inter DEDFG160	>= 3.763 V <= 3.827 V	
		<b>Analog_verification_voltage_3795mV</b>		
		Verify Telemetry DIAG1_Interrog DEDHG160	>= 3.763 V <= 3.827 V	
		<b>Analog_verification_voltage_1205mV</b>		
		Verify Telemetry DIAG2_Interrog DEDJ1160	>= 1.192 V <= 1.218 V	
		<b>+5V Reference Element output (+5V)</b>		
		Verify Telemetry DIAG3_Interrog DEDJG160	>= 4.963 V <= 5.037 V	
		<b>Thermistor Reference Voltage (+5V), derived from the 10V ADC Reference</b>		
		Verify Telemetry DIAG4_Interrog DEDK1160	>= 4.981 V <= 5.019 V	
		<b>Thermistor Reference Voltage (+5V), derived from the 10V ADC Reference</b>		
		Verify Telemetry DIAG5_Interrog DEDKG160	>= 4.981 V <= 5.019 V	
		<b>TCXO A and B Temperatures</b>		
		Verify Telemetry Oscillat_A_Temp DEDN1160	>= -15.0 degC <= 61.0 degC	
		Verify Telemetry Oscillat_B_Temp DEDNG160	>= -15.0 degC <= 61.0 degC	

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<b>DID_COLD_ON_OFF</b>  In the nominal configuration PM A is ON and PM B is OFF. PM B is switched ON (and PM A OFF) after a level 4 or level 3b failure.		
		Verify Telemetry ColdSts_A_fromA DEE81160		
		Verify Telemetry ColdSts_A_fromB DEE82160		
		Verify Telemetry ColdSts_B_fromA DEE83160		
		Verify Telemetry ColdSts_B_fromB DEE84160		
		<b>DID_RM_EN</b>  In the nominal configuration both the RMs are always ON (Ground only can disable the RMs).		
		Verify Telemetry RMA_fromTTR-RMA DEEXG160	= ENABLED	
		Verify Telemetry RMA_fromTTR-RMB DEEXH160	= ENABLED	
		Verify Telemetry RMB_fromTTR-RMA DEEXJ160	= ENABLED	
		Verify Telemetry RMB_fromTTR-RMB DEEXK160	= ENABLED	
		<b>DID_ACT_PM</b>  In the nominal configuration the active PM is A. PM B is the active one after a level 4 or level 3b failure.		
		Verify Telemetry Active_PM_Board DEDM1160		
		<b>DID_ACT_TM_OBT</b>  In the nominal configuration the active TM Encoder (and CTR) is A. TM Encoder B is the active one after a level 4 failure or a TTR switchover triggered by the following failures: - COCOS Space Wire A Time Out failure (event 0x38) - COCOS Space Wire A Reconnection failure (event 0x40) - TTR/RM A CROME RT failure (event 0x56)		
		Verify Telemetry ActiveTM-OBT DEK8G160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<b>DID_PM_RS</b>  In the nominal configuration, for the active PM, PM R0=Nominal and PM R1=Image 1. PM R0=Survival after a level 4 failure PM R1=Image 2 after a level 3 when already operating on the redundant PM.		
		Verify Telemetry PMA_R0_TTR-RM_A DEEX1160		
		Verify Telemetry PMA_R1_TTR-RM_A DEEX2160		
		Verify Telemetry PMB_R0_TTR-RM_B DEEX3160		
		Verify Telemetry PMB_R1_TTR-RM_B DEEX4160		
		<b>DID_PDEC_MON_A</b>  See <i>CROME UM</i> .		
		Verify Telemetry Lock_A DEEP1160		
		Verify Telemetry TC5_Status_A DEEP2160		
		Verify Telemetry TC4_Status_A DEEP3160		
		Verify Telemetry TC3_Status_A DEEP4160		
		Verify Telemetry TC2_Status_A DEEP5160		
		Verify Telemetry TC1_Status_A DEEP6160		
		Verify Telemetry TC0_Status_A DEEP7160		
		<b>DID_PDEC_MON_B</b>  See <i>CROME UM</i> .		
		Verify Telemetry Lock_B DEEPG160		
		Verify Telemetry TC5_Status_B DEEPH160		
		Verify Telemetry TC4_Status_B DEEPZ160		



CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



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		Verify Telemetry TC3_Status_B DEEPJ160		
		Verify Telemetry TC2_Status_B DEEPK160		
		Verify Telemetry TC1_Status_B DEEPL160		
		Verify Telemetry TC0_Status_B DEEPM160		
		<b>DID_PDEC_FAR_A</b> <b>See CROME UM.</b>		
		Verify Telemetry FARa_STAT DEES1160		
		Verify Telemetry FARa_Analysis DEES2160		
		Verify Telemetry FARa_ill_Reas DEES3160		
		Verify Telemetry FARa_AccCdBlk DEES4160		
		Verify Telemetry FARa_SinglCorr DEES5160		
		Verify Telemetry FARa_Type DEES6160		
		Verify Telemetry FARa_TCchInput DEES7160		
		Verify Telemetry FARa_LastMAP DEES8160		
		Verify Telemetry FARa_AuthProcA DEES9160		
		<b>DID_PDEC_FAR_B</b> <b>See CROME UM.</b>		
		Verify Telemetry FARb_STAT DEESG160		
		Verify Telemetry FARb_Analysis DEESH160		
		Verify Telemetry FARb_ill_Reas DEESJ160		
		Verify Telemetry FARb_AccCdBlk DEESK160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
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		Verify Telemetry FARb_SinglCorr DEESL160		
		Verify Telemetry FARb_Type DEESM160		
		Verify Telemetry FARb_TCchInput DEESN160		
		Verify Telemetry FARb_LastMAP DEESP160		
		Verify Telemetry FARb_AuthProcA DEESR160		
		<b>DID_TME_BITRATE</b>  - Launch mode: 150 kbps in external power/5 kbps in internal power (XPNDs TXs are OFF)  - Sun Acquisition mode after separation: 5 kbps  - Sun Acquisition mode otherwise: 500 bps  - Nominal mode: 150 kbps/1,5 Mbps by Ground TC  - Earth Acquisition mode: 150 kbps  - Survival mode: 500 bps		
		Verify Telemetry TME_BITRATE DEMRF160		
		<b>DID_MM_ON_OFF</b>  In the nominal configuration both the MMs are always ON; only following a SOHO case they are switched OFF.		
		Verify Telemetry MMstsA_fromTTRA DEEDG160	= ON	
		Verify Telemetry MMstsA_fromTTRB DEEDH160	= ON	
		Verify Telemetry MMstsB_fromTTRA DEEDZ160	= ON	
		Verify Telemetry MMstsB_fromTTRB DEEDJ160	= ON	
		<b>DID_MM_BANK_POWER_A</b>  In the nominal configuration 3 banks out of 4 are switched ON.		
		Verify Telemetry PWR_Sts_BankA0 DEECG160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



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		Verify Telemetry PWR_Sts_BankA1 DEECH160		
		Verify Telemetry PWR_Sts_BankA2 DEECZ160		
		Verify Telemetry PWR_Sts_BankA3 DEECJ160		
		<b>DID_MM_BANK_POWER_B</b>  In the nominal configuration 3 banks out of 4 are switched ON.		
		Verify Telemetry PWR_Sts_BankB0 DEECK160		
		Verify Telemetry PWR_Sts_BankB1 DEECL160		
		Verify Telemetry PWR_Sts_BankB2 DEECM160		
		Verify Telemetry PWR_Sts_BankB3 DEECN160		
		<b>DID_MM_BANK_X_CFG_Y (where X=0..3, Y=A/B)</b>  It is possible to map any of the four banks to any of the four possible locations.		
		Verify Telemetry A0_Phys_Bank DEEE1160		
		Verify Telemetry B0_Phys_Bank DEEEG160		
		Verify Telemetry A1_Phys_Bank DEEF1160		
		Verify Telemetry B1_Phys_Bank DEEFG160		
		Verify Telemetry A2_Phys_Bank DEEG1160		
		Verify Telemetry B2_Phys_Bank DEEGG160		
		Verify Telemetry A3_Phys_Bank DEEH1160		
		Verify Telemetry B3_Phys_Bank DEEHG160		



CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
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		Verify Telemetry TtrRmA_Healthy DEJK3160		
		Verify Telemetry TtrRmB_UpdateEn DEJK4160		
		Verify Telemetry TtrRmB_Enabled DEJK5160		
		Verify Telemetry TtrRmB_Healthy DEJK6160		
		<b>TTR_RM_INTRPT</b>		
		Verify Telemetry TtrRmIntA_UpdEn DEJKG160		
		Verify Telemetry TtrRmIntA_Enabl DEJKH160		
		Verify Telemetry TtrRmIntA_Healt DEJKZ160		
		Verify Telemetry TtrRmIntB_UpdEn DEJKJ160		
		Verify Telemetry TtrRmIntB_Enabl DEJKK160		
		Verify Telemetry TtrRmIntB_Healt DEJKL160		
		<b>TTR_RM_SGM</b>		
		Verify Telemetry TtrRmSgmA_UpdEn DEJL1160		
		Verify Telemetry TtrRmSgmA_Enabl DEJL2160		
		Verify Telemetry TtrRmSgmA_Healt DEJL3160		
		Verify Telemetry TtrRmSgmB_UpdEn DEJL4160		
		Verify Telemetry TtrRmSgmB_Enabl DEJL5160		
		Verify Telemetry TtrRmSgmB_Healt DEJL6160		
		<b>TTR_RM_ICB_RT</b>		
		Verify Telemetry TtrRmIcbA_UpdEn DEJLG160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



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		Verify Telemetry TtrRmIcbA_Enabl DEJLH160		
		Verify Telemetry TtrRmIcbA_Healt DEJLZ160		
		Verify Telemetry TtrRmIcbB_UpdEn DEJLJ160		
		Verify Telemetry TtrRmIcbB_Enabl DEJLK160		
		Verify Telemetry TtrRmIcbB_Healt DEJLL160		
		<b>MM_BOARD</b>		
		Verify Telemetry MmBrdA_UpdateEn DEJM1160		
		Verify Telemetry MmBrdA_Enabled DEJM2160		
		Verify Telemetry MmBrdA_Healthy DEJM3160		
		Verify Telemetry MmBrdB_UpdateEn DEJM4160		
		Verify Telemetry MmBrdB_Enabled DEJM5160		
		Verify Telemetry MmBrdB_Healthy DEJM6160		
		<b>MM_INTRPT</b>		
		Verify Telemetry MmIntA_UpdateEn DEJMG160		
		Verify Telemetry MmIntA_Enabled DEJMH160		
		Verify Telemetry MmIntA_Healthy DEJMZ160		
		Verify Telemetry MmIntB_UpdateEn DEJMJ160		
		Verify Telemetry MmIntB_Enabled DEJMK160		
		Verify Telemetry MmIntB_Healthy DEJML160		
		<b>MM_ICB_RT</b>		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



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		Verify Telemetry MmIcbA_UpdateEn DEJN1160		
		Verify Telemetry MmIcbA_Enabled DEJN2160		
		Verify Telemetry MmIcbA_Healthy DEJN3160		
		Verify Telemetry MmIcbB_UpdateEn DEJN4160		
		Verify Telemetry MmIcbB_Enabled DEJN5160		
		Verify Telemetry MmIcbB_Healthy DEJN6160		
		<b>PM_ICB_BC</b>		
		Verify Telemetry PmIcbA_UpdateEn DEJNG160		
		Verify Telemetry PmIcbA_Enabled DEJNH160		
		Verify Telemetry PmIcbA_Healthy DEJNZ160		
		Verify Telemetry PmIcbB_UpdateEn DEJNJ160		
		Verify Telemetry PmIcbB_Enabled DEJNK160		
		Verify Telemetry PmIcbB_Healthy DEJNL160		
		<b>PM_COCOS</b>		
		Verify Telemetry PmCocosa_UpdEn DEJP1160		
		Verify Telemetry PmCocosa_Enable DEJP2160		
		Verify Telemetry PmCocosa_Health DEJP3160		
		Verify Telemetry PmCocosaB_UpdEn DEJP4160		
		Verify Telemetry PmCocosaB_Enable DEJP5160		
		Verify Telemetry PmCocosaB_Health DEJP6160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
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		<b>PM_OBDH</b>		
		Verify Telemetry PmObdhA_UpdEn DEJPG160		
		Verify Telemetry PmObdhA_Enabled DEJPH160		
		Verify Telemetry PmObdhA_Healthy DEJpz160		
		Verify Telemetry PmObdhB_UpdEn DEJpJ160		
		Verify Telemetry PmObdhB_Enabled DEJpK160		
		Verify Telemetry PmObdhB_Healthy DEJpL160		
		<b>PM_SPW_TTR_RM_A</b>		
		Verify Telemetry PmSpwTtrAA_UpdE DEJR1160		
		Verify Telemetry PmSpwTtrAA_Enab DEJR2160		
		Verify Telemetry PmSpwTtrAA_Hlth DEJR3160		
		Verify Telemetry PmSpwTtrAB_UpdE DEJR4160		
		Verify Telemetry PmSpwTtrAB_Enab DEJR5160		
		Verify Telemetry PmSpwTtrAB_Hlth DEJR6160		
		<b>PM_SPW_TTR_RM_B</b>		
		Verify Telemetry PmSpwTtrBA_UpdE DEJRG160		
		Verify Telemetry PmSpwTtrBA_Enab DEJRH160		
		Verify Telemetry PmSpwTtrBA_Hlth DEJRZ160		
		Verify Telemetry PmSpwTtrBB_UpdE DEJRJ160		
		Verify Telemetry PmSpwTtrBB_Enab DEJRK160		



CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
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		Verify Telemetry PmSpwTtrBB_Hlth DEJRL160		
		<b>PM_SPW_MM_A</b>		
		Verify Telemetry PmSpwMmAA_UpdE DEJS1160		
		Verify Telemetry PmSpwMmAA_Enab DEJS2160		
		Verify Telemetry PmSpwMmAA_Hlth DEJS3160		
		Verify Telemetry PmSpwMmAB_UpdE DEJS4160		
		Verify Telemetry PmSpwMmAB_Enab DEJS5160		
		Verify Telemetry PmSpwMmAB_Hlth DEJS6160		
		<b>PM_SPW_MM_B</b>		
		Verify Telemetry PmSpwMmBA_UpdE DEJSG160		
		Verify Telemetry PmSpwMmBA_Enab DEJSH160		
		Verify Telemetry PmSpwMmBA_Hlth DEJSZ160		
		Verify Telemetry PmSpwMmBB_UpdE DEJSJ160		
		Verify Telemetry PmSpwMmBB_Enab DEJSK160		
		Verify Telemetry PmSpwMmBB_Hlth DEJSL160		
		<b>MARS_IO_GRP_1</b>		
		Verify Telemetry MarsGrp01A_UpdE DEJT1160		
		Verify Telemetry MarsGrp01A_Enab DEJT2160		
		Verify Telemetry MarsGrp01A_Hlth DEJT3160		
		Verify Telemetry MarsGrp01B_UpdE DEJT4160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
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		Verify Telemetry MarsGrp01B_Enab DEJT5160		
		Verify Telemetry MarsGrp01B_Hlth DEJT6160		
		<b>MARS_IO_GRP_2</b>		
		Verify Telemetry MarsGrp02A_UpdE DEJTG160		
		Verify Telemetry MarsGrp02A_Enab DEJTH160		
		Verify Telemetry MarsGrp02A_Hlth DEJTZ160		
		Verify Telemetry MarsGrp02B_UpdE DEJTJ160		
		Verify Telemetry MarsGrp02B_Enab DEJTK160		
		Verify Telemetry MarsGrp02B_Hlth DEJTL160		
		<b>MARS_IO_GRP_3</b>		
		Verify Telemetry MarsGrp03A_UpdE DEJU1160		
		Verify Telemetry MarsGrp03A_Enab DEJU2160		
		Verify Telemetry MarsGrp03A_Hlth DEJU3160		
		Verify Telemetry MarsGrp03B_UpdE DEJU4160		
		Verify Telemetry MarsGrp03B_Enab DEJU5160		
		Verify Telemetry MarsGrp03B_Hlth DEJU6160		
		<b>MARS_IO_GRP_4</b>		
		Verify Telemetry MarsGrp04A_UpdE DEJUG160		
		Verify Telemetry MarsGrp04A_Enab DEJUH160		
		Verify Telemetry MarsGrp04A_Hlth DEJUZ160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
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		Verify Telemetry MarsGrp04B_UpdE DEJUJ160		
		Verify Telemetry MarsGrp04B_Enab DEJUK160		
		Verify Telemetry MarsGrp04B_Hlth DEJUL160		
		<b>MARS_IO_GRP_5</b>		
		Verify Telemetry MarsGrp05A_UpdE DEJV1160		
		Verify Telemetry MarsGrp05A_Enab DEJV2160		
		Verify Telemetry MarsGrp05A_Hlth DEJV3160		
		Verify Telemetry MarsGrp05B_UpdE DEJV4160		
		Verify Telemetry MarsGrp05B_Enab DEJV5160		
		Verify Telemetry MarsGrp05B_Hlth DEJV6160		
		<b>MARS_IO_GRP_6</b>		
		Verify Telemetry MarsGrp06A_UpdE DEJVG160		
		Verify Telemetry MarsGrp06A_Enab DEJVH160		
		Verify Telemetry MarsGrp06A_Hlth DEJVZ160		
		Verify Telemetry MarsGrp06B_UpdE DEJVJ160		
		Verify Telemetry MarsGrp06B_Enab DEJVK160		
		Verify Telemetry MarsGrp06B_Hlth DEJVL160		
		<b>MARS_IO_GRP_7</b>		
		Verify Telemetry MarsGrp07A_UpdE DEJX1160		
		Verify Telemetry MarsGrp07A_Enab DEJX2160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry MarsGrp07A_Hlth DEJX3160		
		Verify Telemetry MarsGrp07B_UpdE DEJX4160		
		Verify Telemetry MarsGrp07B_Enab DEJX5160		
		Verify Telemetry MarsGrp07B_Hlth DEJX6160		
		<b>MARS_IO_GRP_8</b>		
		Verify Telemetry MarsGrp08A_UpdE DEJXG160		
		Verify Telemetry MarsGrp08A_Enab DEJXH160		
		Verify Telemetry MarsGrp08A_Hlth DEJXZ160		
		Verify Telemetry MarsGrp08B_UpdE DEJXJ160		
		Verify Telemetry MarsGrp08B_Enab DEJXK160		
		Verify Telemetry MarsGrp08B_Hlth DEJXL160		
		<b>MARS_IO_GRP_9</b>		
		Verify Telemetry MarsGrp09A_UpdE DEJY1160		
		Verify Telemetry MarsGrp09A_Enab DEJY2160		
		Verify Telemetry MarsGrp09A_Hlth DEJY3160		
		Verify Telemetry MarsGrp09B_UpdE DEJY4160		
		Verify Telemetry MarsGrp09B_Enab DEJY5160		
		Verify Telemetry MarsGrp09B_Hlth DEJY6160		
		<b>MARS_IO_GRP_10</b>		
		Verify Telemetry MarsGrp10A_UpdE DEJYG160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry MarsGrp10A_Enab DEJYH160		
		Verify Telemetry MarsGrp10A_Hlth DEJYZ160		
		Verify Telemetry MarsGrp10B_UpdE DEJYJ160		
		Verify Telemetry MarsGrp10B_Enab DEJYK160		
		Verify Telemetry MarsGrp10B_Hlth DEJYL160		
		<b>MARS_IO_GRP_11</b>		
		Verify Telemetry MarsGrp11A_UpdE DEJZ1160		
		Verify Telemetry MarsGrp11A_Enab DEJZ2160		
		Verify Telemetry MarsGrp11A_Hlth DEJZ3160		
		Verify Telemetry MarsGrp11B_UpdE DEJZ4160		
		Verify Telemetry MarsGrp11B_Enab DEJZ5160		
		Verify Telemetry MarsGrp11B_Hlth DEJZ6160		
		<b>MARS_IO_GRP_12</b>		
		Verify Telemetry MarsGrp12A_UpdE DEJZG160		
		Verify Telemetry MarsGrp12A_Enab DEJZH160		
		Verify Telemetry MarsGrp12A_Hlth DEJZZ160		
		Verify Telemetry MarsGrp12B_UpdE DEJZJ160		
		Verify Telemetry MarsGrp12B_Enab DEJZK160		
		Verify Telemetry MarsGrp12B_Hlth DEJZL160		
		<b>MARS_IO_GRP_13</b>		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry MarsGrp13A_UpdE DEK01160		
		Verify Telemetry MarsGrp13A_Enab DEK02160		
		Verify Telemetry MarsGrp13A_Hlth DEK03160		
		Verify Telemetry MarsGrp13B_UpdE DEK04160		
		Verify Telemetry MarsGrp13B_Enab DEK05160		
		Verify Telemetry MarsGrp13B_Hlth DEK06160		
		<b>MARS_IO_GRP_14</b>		
		Verify Telemetry MarsGrp14A_UpdE DEK0G160		
		Verify Telemetry MarsGrp14A_Enab DEK0H160		
		Verify Telemetry MarsGrp14A_Hlth DEK0Z160		
		Verify Telemetry MarsGrp14B_UpdE DEK0J160		
		Verify Telemetry MarsGrp14B_Enab DEK0K160		
		Verify Telemetry MarsGrp14B_Hlth DEK0L160		
		<b>MARS_IO_GRP_15</b>		
		Verify Telemetry MarsGrp15A_UpdE DEK11160		
		Verify Telemetry MarsGrp15A_Enab DEK12160		
		Verify Telemetry MarsGrp15A_Hlth DEK13160		
		Verify Telemetry MarsGrp15B_UpdE DEK14160		
		Verify Telemetry MarsGrp15B_Enab DEK15160		
		Verify Telemetry MarsGrp15B_Hlth DEK16160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<b>MARS_IO_GRP_16</b>		
		Verify Telemetry MarsGrp16A_UpdE DEK1G160		
		Verify Telemetry MarsGrp16A_Enab DEK1H160		
		Verify Telemetry MarsGrp16A_Hlth DEK1Z160		
		Verify Telemetry MarsGrp16B_UpdE DEK1J160		
		Verify Telemetry MarsGrp16B_Enab DEK1K160		
		Verify Telemetry MarsGrp16B_Hlth DEK1L160		
		<b>MARS_IO_GRP_17</b>		
		Verify Telemetry MarsGrp17A_UpdE DEK21160		
		Verify Telemetry MarsGrp17A_Enab DEK22160		
		Verify Telemetry MarsGrp17A_Hlth DEK23160		
		Verify Telemetry MarsGrp17B_UpdE DEK24160		
		Verify Telemetry MarsGrp17B_Enab DEK25160		
		Verify Telemetry MarsGrp17B_Hlth DEK26160		
		<b>MARS_IO_GRP_18</b>		
		Verify Telemetry MarsGrp18A_UpdE DEK2G160		
		Verify Telemetry MarsGrp18A_Enab DEK2H160		
		Verify Telemetry MarsGrp18A_Hlth DEK2Z160		
		Verify Telemetry MarsGrp18B_UpdE DEK2J160		
		Verify Telemetry MarsGrp18B_Enab DEK2K160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry MarsGrp18B_Hlth DEK2L160		
		<b>MARS_IO_GRP_19</b>		
		Verify Telemetry MarsGrp19A_UpdE DEK31160		
		Verify Telemetry MarsGrp19A_Enab DEK32160		
		Verify Telemetry MarsGrp19A_Hlth DEK33160		
		Verify Telemetry MarsGrp19B_UpdE DEK34160		
		Verify Telemetry MarsGrp19B_Enab DEK35160		
		Verify Telemetry MarsGrp19B_Hlth DEK36160		
		<b>MARS_IO_GRP_20</b>		
		Verify Telemetry MarsGrp20A_UpdE DEK3G160		
		Verify Telemetry MarsGrp20A_Enab DEK3H160		
		Verify Telemetry MarsGrp20A_Hlth DEK3Z160		
		Verify Telemetry MarsGrp20B_UpdE DEK3J160		
		Verify Telemetry MarsGrp20B_Enab DEK3K160		
		Verify Telemetry MarsGrp20B_Hlth DEK3L160		
		<b>MARS_IO_GRP_21</b>		
		Verify Telemetry MarsGrp21A_UpdE DEK41160		
		Verify Telemetry MarsGrp21A_Enab DEK42160		
		Verify Telemetry MarsGrp21A_Hlth DEK43160		
		Verify Telemetry MarsGrp21B_UpdE DEK44160		



CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry MarsGrp21B_Enab DEK45160		
		Verify Telemetry MarsGrp21B_Hlth DEK46160		
		<b>MARS_IO_GRP_22</b>		
		Verify Telemetry MarsGrp22A_UpdE DEK4G160		
		Verify Telemetry MarsGrp22A_Enab DEK4H160		
		Verify Telemetry MarsGrp22A_Hlth DEK4Z160		
		Verify Telemetry MarsGrp22B_UpdE DEK4J160		
		Verify Telemetry MarsGrp22B_Enab DEK4K160		
		Verify Telemetry MarsGrp22B_Hlth DEK4L160		
		<b>MARS_IO_GRP_23</b>		
		Verify Telemetry MarsGrp23A_UpdE DEK51160		
		Verify Telemetry MarsGrp23A_Enab DEK52160		
		Verify Telemetry MarsGrp23A_Hlth DEK53160		
		Verify Telemetry MarsGrp23B_UpdE DEK54160		
		Verify Telemetry MarsGrp23B_Enab DEK55160		
		Verify Telemetry MarsGrp23B_Hlth DEK56160		
		<b>MARS_IO_GRP_24</b>		
		Verify Telemetry MarsGrp24A_UpdE DEK5G160		
		Verify Telemetry MarsGrp24A_Enab DEK5H160		
		Verify Telemetry MarsGrp24A_Hlth DEK5Z160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry MarsGrp24B_UpdE DEK5J160		
		Verify Telemetry MarsGrp24B_Enab DEK5K160		
		Verify Telemetry MarsGrp24B_Hlth DEK5L160		
		<b>MARS_IO_GRP_25</b>		
		Verify Telemetry MarsGrp25A_UpdE DEK61160		
		Verify Telemetry MarsGrp25A_Enab DEK62160		
		Verify Telemetry MarsGrp25A_Hlth DEK63160		
		Verify Telemetry MarsGrp25B_UpdE DEK64160		
		Verify Telemetry MarsGrp25B_Enab DEK65160		
		Verify Telemetry MarsGrp25B_Hlth DEK66160		
3		<i>BSW checks</i>		Next Step: 4
		<b>DID_BSW_SDB_ACTIVE_PROFILE</b>  The default active bus profile is according to the HPSDB mnemonic <i>DEFAULT_SCBP_INDEX_VALUE</i> .		
		Verify Telemetry BSW_SDB_ActProf DEF5F160		
		<b>DID_BSW_SDB_ENABLED</b>		
		Verify Telemetry BSW_SDB_ENAB DEF60160	= ENABLED	
		<b>DID_BSW_CPU_LOAD_MAX</b>		
		Verify Telemetry BSW_CPULoad_Max DEF20160	<= 70 %	
		<b>DID_BSW_SGM_STS</b>		
		Verify Telemetry SGM_A_WriteProt DEL21160	= FALSE	
		Verify Telemetry SGM_B_WriteProt DEL22160	= FALSE	

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry SgmReadWriteAcc DEL23160	TRUE when ongoing access to one of the two SGMs	
		<b>DID_BSW_MM_X_CFG_STS (where X=A/B)</b>		
		Verify Telemetry BSW_MM_A_CfgSts DEL2F160	= NoCfgOngoing	
		Verify Telemetry BSW_MM_B_CfgSts DEL30160	= NoCfgOngoing	
		<b>DID_BSW_SDB_BURST_MODE</b>  Burst mode can be selected by Ground (for scientific data retrieval) only when the S/C is in Nominal mode.		
		Verify Telemetry AccBurstMode DEE01161		
		Verify Telemetry HifiBurstMode DEE02161		
		Verify Telemetry SpireBurstMode DEE03161		
		Verify Telemetry PacsBurstMode DEE04161		
		<b>DID_BSW_OBT_TTR_DIFF</b>		
		Verify Telemetry BSW_ObtTtrDiff DEL80160	< 24 microsec	
		<b>DID_BSW_MEM_ACCESS</b>		
		Verify Telemetry EEPromWriteProt DEL0J160	= ENABLED	
		Verify Telemetry CpuCocosWrtProt DEL0G160	= ENABLED	
		Verify Telemetry CpuRamWriteProt DEL0H160	= ENABLED	
		<b>DID_BSW_SDB_BC_CFG</b>  The folowing parameters are managed by the DLL FDIR as reported in the <i>SOFDIR</i> .		
		Verify Telemetry Active_Bus_A_B DEFJ1160		
		Verify Telemetry BusA_HealthySts DEFJ2160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry BusB_HealthySts DEFJ3160		
		Verify Telemetry SDB_FDIR DEFJ4160		
		<b>DID_BSW_CNT_xxx_P</b>  Every time a process is invoked the counter is incremented by one. Each process is invoked cyclically (1 time every SW cycle), and if the counter stops the task is dead (or overrun of other tasks has occurred). Each counter is an 8-bit wrap around counter (values between 0 and 255).		
		Verify Telemetry InvCnt_BcSdbP DEN0M160		
		Verify Telemetry InvCnt_CmdP DEN12160		
		Verify Telemetry InvCnt_HkP DEN0U160		
		Verify Telemetry InvCnt_HkSmp1P DEN0N160		
		Verify Telemetry InvCnt_IOCycP DEN0P160		
		Verify Telemetry InvCnt_MmP DEN0Z160		
		Verify Telemetry InvCnt_ObtP DEN0R160		
		Verify Telemetry InvCnt_StSMonP DEN0S160		
		Verify Telemetry InvCnt_SgmP DEN0Y160		
		Verify Telemetry InvCnt_SremP DEN0T160		
		Verify Telemetry InvCnt_TcRtrP DEN11160		
		Verify Telemetry InvCnt_Tm2SdbP DEN0V160		
		Verify Telemetry InvCnt_TmVcP DEN10160		
		Verify Telemetry InvCnt_VmcP DES4V161		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<b>DID_BSW_EVENT_ID_CNT_xxx</b>		
		Expected value for all the following counters: "0"		
		<b>The following two buffers shall never become full. If the counter is incremented, it is an indication that an overrun has occurred. Each counter is a 16-bit wrap around counter (values between 0 and 65535).</b>		
		Verify Telemetry BSW_EvIDCnt1 DEFZ0160		
		Verify Telemetry BSW_EvIDCnt2 DEFZF160		
		<b>If the TC Pool becomes full, the worst case scenario of the BSW has been exceeded. The following counter is a 16-bit wrap around counter (values between 0 and 65535).</b>		
		Verify Telemetry BSW_EvIDCnt5 DEG0F180		
		<b>The queue shall never become full. If the following counter is incremented, the worst case scenario of the BSW has been exceeded. The counter is a 16-bit wrap around counter (values between 0 and 65535).</b>		
		Verify Telemetry BSW_EvIDCnt7 DEG1F180		
		<b>If the TM Pool becomes full, the worst case scenario of the BSW has been exceeded. The following counter is a 16-bit wrap around counter (values between 0 and 65535).</b>		
		Verify Telemetry BSW_EvIDCnt9 DEG2F180		
		<b>The queues shall never become full. If the following counters are incremented, it is an indication that an overrun has occurred. Each counter is a 16-bit wrap around counter (values between 0 and 65535).</b>		
		Verify Telemetry BSW_EvIDCnt11 DEG3F180		
		Verify Telemetry BSW_EvIDCnt15 DEG5F160		
		Verify Telemetry BSW_EvIDCnt136 DEHVF160		
		Verify Telemetry BSW_EvIDCnt137 DEHX0160		
		Verify Telemetry BSW_EvIDCnt138 DEHXF160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<b>The queues shall never become full. If the following counters are incremented, the available TME bitrate or the worst case scenario of the BSW has been exceeded. Each counter is a 16-bit wrap around counter (values between 0 and 65535).</b>		
		Verify Telemetry BSW_EvIDCnt18                      DEG70160		
		Verify Telemetry BSW_EvIDCnt19                      DEG7F160		
		Verify Telemetry BSW_EvIDCnt20                      DEG80160		
		<b>If the following counters are incremented, an overrun has occurred. Each counter is a 16-bit wrap around counter (values between 0 and 65535).</b>		
		Verify Telemetry BSW_EvIDCnt202                      DEN14160		
		Verify Telemetry BSW_EvIDCnt204                      DEN15180		
		Verify Telemetry BSW_EvIDCnt206                      DEN16180		
		Verify Telemetry BSW_EvIDCnt207                      DEN17180		
		Verify Telemetry BSW_EvIDCnt208                      DEN18180		
		Verify Telemetry BSW_EvIDCnt209                      DEN19160		
		Verify Telemetry BSW_EvIDCnt210                      DES4X161		
		Verify Telemetry BSW_EvIDCnt211                      DEN20180		
		Verify Telemetry BSW_EvIDCnt212                      DEN21180		
		Verify Telemetry BSW_EvIDCnt213                      DEN22160		
		Verify Telemetry BSW_EvIDCnt214                      DEN23180		
4		<i>RTA and RT configuration matrix check</i>		Next Step: 5
		<b>RT and RTA matrices are managed by the TFL and DLL FDIR as reported in the SOFDIR and CDMU BSW SRD.</b>		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<b>ACC A RTA configuration matrix</b>		
		Verify Telemetry ACCA_On_Off DEF6G160		
		Verify Telemetry ACCA_Dead_Alive DEF6H160		
		Verify Telemetry ACCAWell_SickTC DEF6Z160		
		Verify Telemetry ACCAWell_SickTM DEF6J160		
		Verify Telemetry ACCAValid_Inval DEF6K160		
		Verify Telemetry ACCA_TFLTM DEF6L160		(None)
		<b>ACC B RTA configuration matrix</b>		
		Verify Telemetry ACCB_On_Off DEF71160		
		Verify Telemetry ACCB_Dead_Alive DEF72160		
		Verify Telemetry ACCBWell_SickTC DEF73160		
		Verify Telemetry ACCBWell_SickTM DEF74160		
		Verify Telemetry ACCBValid_Inval DEF75160		
		Verify Telemetry ACCB_TFLTM DEF76160		(None)
		<b>ACC RT configuration matrix</b>		
		Verify Telemetry ACC_Vit_NoVit DEF7DG160		
		Verify Telemetry ACC_VitRT_Cnt DEF7DJ160		
		Verify Telemetry ACC_No_Re_RT DEF7DH160		
		Verify Telemetry ACC_TMRetryOnOf DEF7DZ160		
		<b>HIFI A RTA configuration matrix</b>		
		Verify Telemetry HIFIA_OnOff DED2G161		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry HIFIA_DeadAlive DEDZH161		
		Verify Telemetry HIFIA_WellsicTC DEDZZ161		
		Verify Telemetry HIFIA_WellsicTM DEDZJ161		
		Verify Telemetry HIFIA_ValidInv DEDZK161		
		Verify Telemetry HIFIA_TFLTM DEDZL161		(None)
		<b>HIFI B RTA configuration matrix</b>		
		Verify Telemetry HIFIB_OnOff DED11161		
		Verify Telemetry HIFIB_DeadAlive DED12161		
		Verify Telemetry HIFIB_WellsicTC DED13161		
		Verify Telemetry HIFIB_WellsicTM DED14161		
		Verify Telemetry HIFIB_ValidInv DED15161		
		Verify Telemetry HIFIB_TFLTM DED16161		(None)
		<b>HIFI RT configuration matrix</b>		
		Verify Telemetry HIFI_VitalCnt DED4J161		
		Verify Telemetry HIFI_VitalNonV DED4G161		
		Verify Telemetry HIFI_NomRed DED4H161		
		Verify Telemetry HIFI_TmRetry DED4Z161		
		<b>SPIRE A RTA configuration matrix</b>		
		Verify Telemetry SPIREA_OnOff DED1G161		
		Verify Telemetry SPIREA_DeadAliv DED1H161		



CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry SPIREA_WellsiTC DED1Z161		
		Verify Telemetry SPIREA_WellsiTM DED1J161		
		Verify Telemetry SPIREA_ValidInv DED1K161		
		Verify Telemetry SPIREA_TFLTM DED1L161		(None)
		<b>SPIRE B RTA configuration matrix</b>		
		Verify Telemetry SPIREB_OnOff DED21161		
		Verify Telemetry SPIREB_Dealiv DED22161		
		Verify Telemetry SPIREB_WellsiTC DED23161		
		Verify Telemetry SPIREB_WellsiTM DED24161		
		Verify Telemetry SPIREB_ValidInv DED25161		
		Verify Telemetry SPIREB_TFLTM DED26161		(None)
		<b>SPIRE RT configuration matrix</b>		
		Verify Telemetry SPIRE_VitalCnt DED51161		
		Verify Telemetry SPIRE_VitalNonV DED52161		
		Verify Telemetry SPIRE_NomRed DED53161		
		Verify Telemetry SPIRE_TmRetry DED54161		
		<b>PACS A RTA configuration matrix</b>		
		Verify Telemetry PACSA_OnOff DED2G161		
		Verify Telemetry PACSA_Dealiv DED2H161		
		Verify Telemetry PACSA_WellsiTC DED2Z161		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry PACSA_WellsiTM DED2J161		
		Verify Telemetry PACSA_ValidInv DED2K161		
		Verify Telemetry PACSA_TFLTM DED2L161		(None)
		<b>PACS B RTA configuration matrix</b>		
		Verify Telemetry PACSB_OnOff DED31161		
		Verify Telemetry PACSB_DeadAliv DED32161		
		Verify Telemetry PACSB_WellsiTC DED33161		
		Verify Telemetry PACSB_WellsiTM DED34161		
		Verify Telemetry PACSB_ValidInv DED35161		
		Verify Telemetry PACSB_TFLTM DED36161		(None)
		<b>PACS RT configuration matrix</b>		
		Verify Telemetry PACS_VitalCnt DED5J161		
		Verify Telemetry PACS_VitalNonV DED5G161		
		Verify Telemetry PACS_NomRed DED5H161		
		Verify Telemetry PACS_TmRetry DED5Z161		
		<b>PCDU A RTA configuration matrix</b>		
		Verify Telemetry PCDUA_On_Off DEFAG160		
		Verify Telemetry PCDUADealAlive DEFAH160		
		Verify Telemetry PCDUAWellsickTC DEFAZ160		
		Verify Telemetry PCDUAWellsickTM DEFAJ160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry PCDUA_Val_Inval                      DEFAK160		
		Verify Telemetry PCDUA_TFLTM                              DEFAL160		(None)
		<b>PCDU B RTA configuration matrix</b>		
		Verify Telemetry PCDUB_On_Off                              DEFB1160		
		Verify Telemetry PCDUBDead_Alive                          DEFB2160		
		Verify Telemetry PCDUBWellsickTC                          DEFB3160		
		Verify Telemetry PCDUBWellsickTM                          DEFB4160		
		Verify Telemetry PCDUB_Val_Inval                          DEFB5160		
		Verify Telemetry PCDUB_TFLTM                              DEFB6160		(None)
		<b>PCDU RT configuration matrix</b>		
		Verify Telemetry PCDU_VitRT_Cnt                              DEFDK160		
		Verify Telemetry PCDU_Vit_NoVit                              DEFDL160		
		Verify Telemetry PCDU_No_Re_RTA                              DEFDM160		
		<b>CCU A RTA configuration matrix</b>		
		Verify Telemetry CCUA_OnOff                                  DED3G161		
		Verify Telemetry CCUA_DeadAlive                              DED3H161		
		Verify Telemetry CCUA_WellsickTC                              DED3Z161		
		Verify Telemetry CCUA_WellsickTM                              DED3J161		
		Verify Telemetry CCUA_ValidInval                              DED3K161		
		Verify Telemetry CCUA_TFLTM                                  DED3L161		(None)
		<b>CCU A RT configuration matrix</b>		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry CCUA_VitalCnt DED61161		
		Verify Telemetry CCUA_VitalNonV DED62161		
		Verify Telemetry CCUA_NomRed DED63161		
		<b>CCU B RTA configuration matrix</b>		
		Verify Telemetry CCUB_OnOff DED41161		
		Verify Telemetry CCUB_DeadAlive DED42161		
		Verify Telemetry CCUB_WellSickTC DED43161		
		Verify Telemetry CCUB_WellSickTM DED44161		
		Verify Telemetry CCUB_ValidInval DED45161		
		Verify Telemetry CCUB_TFLTM DED46161		(None)
		<b>CCU B RT configuration matrix</b>		
		Verify Telemetry CCUB_VitalCnt DED6J161		
		Verify Telemetry CCUB_VitalNonV DED6G161		
		Verify Telemetry CCUB_NomRed DED6H161		
		<b>XPND 1 RTA configuration matrix</b>		
		Verify Telemetry XPND1On_Off DEF6G160		
		Verify Telemetry XPND1Dead_Alive DEF6H160		
		Verify Telemetry XPND1WellSickTC DEF6J160		
		Verify Telemetry XPND1WellSickTM DEF6K160		
		Verify Telemetry XPND1Val_Inval DEF6L160		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry XPND1_TFLTM DEFCL160		(None)
		<b>XPND 1 RT configuration matrix</b>		
		Verify Telemetry XPND1_VitRT_Cnt DEFDN160		
		Verify Telemetry XPND1_Vit_NoVit DEFDP160		
		Verify Telemetry XPND1_No_Re_RTA DEFDR160		
		<b>XPND 2 RTA configuration matrix</b>		
		Verify Telemetry XPND2On_Off DEFD1160		
		Verify Telemetry XPND2Dead_Alive DEF2160		
		Verify Telemetry XPND2WellSickTC DEF3160		
		Verify Telemetry XPND2WellSickTM DEF4160		
		Verify Telemetry XPND2Val_Invalid DEF5160		
		Verify Telemetry XPND2_TFLTM DEF6160		(None)
		<b>XPND 2 RT configuration matrix</b>		
		Verify Telemetry XPND2_VitRT_Cnt DEFDS160		
		Verify Telemetry XPND2_Vit_NoVit DEFDT160		
		Verify Telemetry XPND2_No_Re_RTA DEFDU160		
5		ASW checks		Next Step: 6
		<b>DID_ASW_MINS_FROM_GROUND</b>  Minutes from last Ground contact.  By the end of DTCP Ground has to check the value of this counter and, if found higher than 150 minutes, send one unique command (e.g. CDMS connection test) in order to reset it.		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry MinsFromGround DE822170	< 150 minutes	(None)
		<b>DID_ASW_FDIR_MODE</b>  Set to AFO when the S/C is in Nominal mode, set to AFS otherwise.		
		Verify Telemetry FdirMode DE81D170		
		<b>DID_ASW_MODE</b>		
		Verify Telemetry CurrentMode DEL34170		
		Verify Telemetry PrevMode DEL35170		
		<b>DIS_ASW_FUNC_STS</b>  The status of the functions after a cold/warm boot is the following: - On Board Scheduling: Stopped  - On Board Monitoring: Started  - OBCP Management: Stopped after cold boot, Started after warm boot if the MM is available  - Event/Action Management: Started but only after the initial mode transition is completed		
		- TTR Management: Started  - Mode Management: Started  - Payload Management: Started  - PCDU Management: Started  - Decontamination Heating: Stopped		
		- Thermal Control: Started after a fixed delay  - TTC Management: Started  - FDIR Management: Started  - Event Filtering: Started  - Lou Baffle Management: Started but the controlling is disabled		
		Verify Telemetry FdirSts DEG23170	= Running	
		Verify Telemetry TtcSts DEL08170	= Running	

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry ThermSts DEL07170	= Running	
		Verify Telemetry DhSts DEG17170	= Running	
		Verify Telemetry Pcdusts DEH45170	= Running	
		Verify Telemetry PmSts DEH47170	= Running	
		Verify Telemetry ModeSts DEH21170	= Running	
		Verify Telemetry TtrSts DEL17170	= Running	
		Verify Telemetry EaSts DEG19170	= Running	
		Verify Telemetry ObcpSts DEH36170	= Running	
		Verify Telemetry MonitSts DEH23170	= Running	
		Verify Telemetry MtlSts DEH26170	= Running	
		Verify Telemetry EfSts DEG20170	= Running	
		Verify Telemetry LbSts DEN66170	= Running	
		<b>DID_ASW_SYNCTC_EXEC_CNT</b> Synchro and TC Poller task execution counters.		
		Verify Telemetry TcPollExecCnt DEL05170		
		Verify Telemetry SyncExecCnt DEL04170		
		<b>DID_ASW_ACCEPT_TC_COUNTER</b> Number of accepted TCs.		
		Verify Telemetry AcceptTcCnt DE85A170		
		<b>DID_ASW_REJECT_TC_COUNTER</b> Number of rejected TCs.		
		Verify Telemetry RejectTcCnt DE867170		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<b>DID_ASW_ACCEPT_TT_TC_COUNTER</b>  Number of accepted time tagged TCs.		
		Verify Telemetry AcceptTtTcCnt DE85B170		
		<b>DID_ASW_REJECT_TT_TC_COUNTER</b>  Number of rejected time tagged TCs.		
		Verify Telemetry RejectTtTcCnt DE868170		
		<b>DID_ASW_EVTMODE_EXEC_CNT</b>  Event Poller and Mode manager task execution counters.		
		Verify Telemetry ModeExecCnt DEH20170		
		Verify Telemetry EventExecCnt DEG21170		
		<b>DID_ASW_EVENT_LAST_APID</b>  APID of last received Event.		
		Verify Telemetry EventLastApid DE813170		
		<b>DID_ASW_DEVMON_EXEC_CNT</b>  Device TC and Monitor task execution counters.		
		Verify Telemetry MonitExecCnt DEH22170		
		Verify Telemetry DtcMExecCnt DEG18170		
		<b>DID_ASW_FDIROBCP_EXEC_CNT</b>  FDIR Manager and OBCP Manager task execution counters.		
		Verify Telemetry ObcpManExecCnt DEH35170		
		Verify Telemetry FdirManExecCnt DEG22170		
		<b>DID_ASW_MTL_EXEC_CNT</b>  MTL Manager and Executor task execution counters.		
		Verify Telemetry MtlManExecCnt DEH25170		



CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry MtlExeExecCnt DEH24170		
		<b>DID_ASW_THERDH_EXEC_CNT</b> Thermal Control and Decontamination heating task execution counter.		
		Verify Telemetry ThermExecCnt DEL06170		
		Verify Telemetry DhExecCnt DEG16170		
		<b>DID_ASW_PM_EXEC_CNT</b> Payload manager task execution counter.		
		Verify Telemetry PldManExecCnt DEH46170		
		<b>DID_ASW_OCL_1_STS</b> Status of each OBCP as seen by OBCP Manager.		
		Verify Telemetry Ocl01Sts DEM54170		
		Verify Telemetry Ocl02Sts DEM55170		
		Verify Telemetry Ocl03Sts DEM56170		
		Verify Telemetry Ocl04Sts DEM57170		
		Verify Telemetry Ocl05Sts DEM58170		
		Verify Telemetry Ocl06Sts DEM59170		
		Verify Telemetry Ocl07Sts DEM60170		
		Verify Telemetry Ocl08Sts DEM61170		
		<b>DID_ASW_OCL_2_STS</b> Status of each OBCP as seen by OBCP Manager.		
		Verify Telemetry Ocl09Sts DEM62170		
		Verify Telemetry Ocl10Sts DEM63170		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Ocl11Sts DEM64170		
		Verify Telemetry Ocl12Sts DEM65170		
		Verify Telemetry Ocl13Sts DEM66170		
		Verify Telemetry Ocl14Sts DEM67170		
		Verify Telemetry Ocl15Sts DEM68170		
		Verify Telemetry Ocl16Sts DEM69170		
6		Unit in Use table check		Next Step: END
		<b>Unit In Use table is managed as described in CDMU ASW SRD.</b>		
		<b>DID_ASW_HPS_1_18_2_17_STS</b>		
		Verify Telemetry Hps17FailSts DEG68170		
		Verify Telemetry Hps17FuncSts DEG69170		
		Verify Telemetry Hps17LogSts DEG70170		
		Verify Telemetry Hps17Use DEG71170		
		Verify Telemetry Hps2FailSts DEG80170		
		Verify Telemetry Hps2FuncSts DEG81170		
		Verify Telemetry Hps2LogSts DEG82170		
		Verify Telemetry Hps2Use DEG83170		
		Verify Telemetry Hps18FailSts DEG72170		
		Verify Telemetry Hps18FuncSts DEG73170		
		Verify Telemetry Hps18LogSts DEG74170		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Hps18Use DEG75170		
		Verify Telemetry Hps1FailSts DEG76170		
		Verify Telemetry Hps1FuncSts DEG77170		
		Verify Telemetry Hps1LogSts DEG78170		
		Verify Telemetry Hps1Use DEG79170		
		<b>DID_ASW_HPS_3_16_4_15_STS</b>		
		Verify Telemetry Hps15FailSts DEG60170		
		Verify Telemetry Hps15FuncSts DEG61170		
		Verify Telemetry Hps15LogSts DEG62170		
		Verify Telemetry Hps15Use DEG63170		
		Verify Telemetry Hps4FailSts DEG88170		
		Verify Telemetry Hps4FuncSts DEG89170		
		Verify Telemetry Hps4LogSts DEG90170		
		Verify Telemetry Hps4Use DEG91170		
		Verify Telemetry Hps16FailSts DEG64170		
		Verify Telemetry Hps16FuncSts DEG65170		
		Verify Telemetry Hps16LogSts DEG66170		
		Verify Telemetry Hps16Use DEG67170		
		Verify Telemetry Hps3FailSts DEG84170		
		Verify Telemetry Hps3FuncSts DEG85170		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Hps3LogSts DEG86170		
		Verify Telemetry Hps3Use DEG87170		
		<b>DID_ASW_HPS_5_14_6_13_STS</b>		
		Verify Telemetry Hps13FailSts DEG52170		
		Verify Telemetry Hps13FuncSts DEG53170		
		Verify Telemetry Hps13LogSts DEG54170		
		Verify Telemetry Hps13Use DEG55170		
		Verify Telemetry Hps6FailSts DEG96170		
		Verify Telemetry Hps6FuncSts DEG97170		
		Verify Telemetry Hps6LogSts DEG98170		
		Verify Telemetry Hps6Use DEG99170		
		Verify Telemetry Hps14FailSts DEG56170		
		Verify Telemetry Hps14FuncSts DEG57170		
		Verify Telemetry Hps14LogSts DEG58170		
		Verify Telemetry Hps14Use DEG59170		
		Verify Telemetry Hps5FailSts DEG92170		
		Verify Telemetry Hps5FuncSts DEG93170		
		Verify Telemetry Hps5LogSts DEG94170		
		Verify Telemetry Hps5Use DEG95170		
		<b>DID_ASW_HPS_7_12_8_11_STS</b>		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Hps11FailSts DEG44170		
		Verify Telemetry Hps11FuncSts DEG45170		
		Verify Telemetry Hps11LogSts DEG46170		
		Verify Telemetry Hps11Use DEG47170		
		Verify Telemetry Hps8FailSts DEH04170		
		Verify Telemetry Hps8FuncSts DEH05170		
		Verify Telemetry Hps8LogSts DEH06170		
		Verify Telemetry Hps8Use DEH07170		
		Verify Telemetry Hps12FailSts DEG48170		
		Verify Telemetry Hps12FuncSts DEG49170		
		Verify Telemetry Hps12LogSts DEG50170		
		Verify Telemetry Hps12Use DEG51170		
		Verify Telemetry Hps7FailSts DEH00170		
		Verify Telemetry Hps7FuncSts DEH01170		
		Verify Telemetry Hps7LogSts DEH02170		
		Verify Telemetry Hps7Use DEH03170		
		<b>DID_ASW_HPS_9_10_SURVEG_STS</b>		
		Verify Telemetry SurvReg2FailSts DEL00170		
		Verify Telemetry SurvReg2FuncSts DEL01170		
		Verify Telemetry SurvReg2LogSts DEL02170		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry SurvReg2Use DEL03170		
		Verify Telemetry SurvReg1FailSts DEH96170		
		Verify Telemetry SurvReg1FuncSts DEH97170		
		Verify Telemetry SurvReg1LogSts DEH98170		
		Verify Telemetry SurvReg1Use DEH99170		
		Verify Telemetry Hps10FailSts DEG40170		
		Verify Telemetry Hps10FuncSts DEG41170		
		Verify Telemetry Hps10LogSts DEG42170		
		Verify Telemetry Hps10Use DEG43170		
		Verify Telemetry Hps9FailSts DEH08170		
		Verify Telemetry Hps9FuncSts DEH09170		
		Verify Telemetry Hps9LogSts DEH10170		
		Verify Telemetry Hps9Use DEH11170		
		<b>DID_ASW_RFDN_STS</b>		
		Verify Telemetry Rfdn4FailSts DEH60170		
		Verify Telemetry Rfdn4FuncSts DEH61170		
		Verify Telemetry Rfdn4LogSts DEH62170		
		Verify Telemetry Rfdn4Use DEH63170		
		Verify Telemetry Rfdn3FailSts DEH56170		
		Verify Telemetry Rfdn3FuncSts DEH57170		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Rfdn3LogSts DEH58170		
		Verify Telemetry Rfdn3Use DEH59170		
		Verify Telemetry Rfdn2FailSts DEH52170		
		Verify Telemetry Rfdn2FuncSts DEH53170		
		Verify Telemetry Rfdn2LogSts DEH54170		
		Verify Telemetry Rfdn2Use DEH55170		
		Verify Telemetry Rfdn1FailSts DEH48170		
		Verify Telemetry Rfdn1FuncSts DEH49170		
		Verify Telemetry Rfdn1LogSts DEH50170		
		Verify Telemetry Rfdn1Use DEH51170		
		<b>DID_ASW_MTL_SGM_STS</b>		
		Verify Telemetry Sgm2FailSts DEH76170		
		Verify Telemetry Sgm2FuncSts DEH77170		
		Verify Telemetry Sgm2LogSts DEH78170		
		Verify Telemetry Sgm2Use DEH79170		
		Verify Telemetry Sgm1FailSts DEH72170		
		Verify Telemetry Sgm1FuncSts DEH73170		
		Verify Telemetry Sgm1LogSts DEH74170		
		Verify Telemetry Sgm1Use DEH75170		
		Verify Telemetry Mt12FailSts DEH92170		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Mtl2FuncSts DEH93170		
		Verify Telemetry Mtl2LogSts DEH94170		
		Verify Telemetry Mtl2Use DEH95170		
		Verify Telemetry Mtl1FailSts DEH88170		
		Verify Telemetry Mtl1FuncSts DEH89170		
		Verify Telemetry Mtl1LogSts DEH90170		
		Verify Telemetry Mtl1Use DEH91170		
		<b>DID_ASW_TTR_CPDU_STS</b>		
		Verify Telemetry Cpdu2FailSts DEG12170		
		Verify Telemetry Cpdu2FuncSts DEG13170		
		Verify Telemetry Cpdu2LogSts DEG14170		
		Verify Telemetry Cpdu2Use DEG15170		
		Verify Telemetry Cpdu1FailSts DEG08170		
		Verify Telemetry Cpdu1FuncSts DEG09170		
		Verify Telemetry Cpdu1LogSts DEG10170		
		Verify Telemetry Cpdu1Use DEG11170		
		Verify Telemetry Ttr2FailSts DEL13170		
		Verify Telemetry Ttr2FuncSts DEL14170		
		Verify Telemetry Ttr2LogSts DEL15170		
		Verify Telemetry Ttr2Use DEL16170		



CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry TtrlFailSts DEL09170		
		Verify Telemetry TtrlFuncSts DEL10170		
		Verify Telemetry TtrlLogSts DEL11170		
		Verify Telemetry TtrlUse DEL12170		
		<b>DID_ASW_XPND_TWT_LCL_STS</b>		
		Verify Telemetry Twta2FailSts DEL22170		
		Verify Telemetry Twta2FuncSts DEL23170		
		Verify Telemetry Twta2LogSts DEL24170		
		Verify Telemetry Twta2Use DEL25170		
		Verify Telemetry Twta1FailSts DEL18170		
		Verify Telemetry Twta1FuncSts DEL19170		
		Verify Telemetry Twta1LogSts DEL20170		
		Verify Telemetry Twta1Use DEL21170		
		Verify Telemetry XpndTx2FailSts DEL30170		
		Verify Telemetry XpndTx2FuncSts DEL31170		
		Verify Telemetry XpndTx2LogSts DEL32170		
		Verify Telemetry XpndTx2Use DEL33170		
		Verify Telemetry XpndTx1FailSts DEL26170		
		Verify Telemetry XpndTx1FuncSts DEL27170		
		Verify Telemetry XpndTx1LogSts DEL28170		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry XpndTx1Use DEL29170		
		<b>DID_ASW_EPC_TWT_AMP_STS</b>		
		Verify Telemetry TwtAmp2FailSts DEH16170		
		Verify Telemetry TwtAmp2FuncSts DEH17170		
		Verify Telemetry TwtAmp2LogSts DEH18170		
		Verify Telemetry TwtAmp2Use DEH19170		
		Verify Telemetry TwtAmp1FailSts DEH12170		
		Verify Telemetry TwtAmp1FuncSts DEH13170		
		Verify Telemetry TwtAmp1LogSts DEH14170		
		Verify Telemetry TwtAmp1Use DEH15170		
		Verify Telemetry Epc2FailSts DEG28170		
		Verify Telemetry Epc2FuncSts DEG29170		
		Verify Telemetry Epc2LogSts DEG30170		
		Verify Telemetry Epc2Use DEG31170		
		Verify Telemetry Epc1FailSts DEG24170		
		Verify Telemetry Epc1FuncSts DEG25170		
		Verify Telemetry Epc1LogSts DEG26170		
		Verify Telemetry Epc1Use DEG27170		
		<b>DID_ASW_OBCP_RX_STS</b>		
		Verify Telemetry XpndRx2FailSts DEL63170		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry XpndRx2FuncSts DEL62170		
		Verify Telemetry XpndRx2LogSts DEL61170		
		Verify Telemetry XpndRx2Use DEL60170		
		Verify Telemetry XpndRx1FailSts DEL59170		
		Verify Telemetry XpndRx1FuncSts DEL58170		
		Verify Telemetry XpndRx1LogSts DEL57170		
		Verify Telemetry XpndRx1Use DEL56170		
		Verify Telemetry Obcp2FailSts DEH68170		
		Verify Telemetry Obcp2FuncSts DEH69170		
		Verify Telemetry Obcp2LogSts DEH70170		
		Verify Telemetry Obcp2Use DEH71170		
		Verify Telemetry Obcp1FailSts DEH64170		
		Verify Telemetry Obcp1FuncSts DEH65170		
		Verify Telemetry Obcp1LogSts DEH66170		
		Verify Telemetry Obcp1Use DEH67170		
		<b>DID_ASW_PACS_DPU_CCU_STS</b>		
		Verify Telemetry CcuBFuncSts DEL96171		
		Verify Telemetry CcuAFuncSts DEL97171		
		Verify Telemetry PacsDpuFuncSts DEL50171		
		<b>DID_ASW_HIFI_WOV_HRV_STS</b>		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry HifiHrvFuncSts DEL41171		
		Verify Telemetry HifiWovFuncSts DEL49171		
		<b>DID_ASW_HIFI_WEV_WOH_STS</b>		
		Verify Telemetry HifiWohFuncSts DEL40171		
		Verify Telemetry HifiWevFuncSts DEL53171		
		<b>DID_ASW_HIFI_WEH_HRH_STS</b>		
		Verify Telemetry HifiHrhFuncSts DEL46171		
		Verify Telemetry HifiWehFuncSts DEL48171		
		<b>DID_ASW_HIFI_LCU_IFV_STS</b>		
		Verify Telemetry HifiIfvFuncSts DEL39171		
		Verify Telemetry HifiLcuFuncSts DEL55171		
		<b>DID_ASW_HIFI_LSU_CRS2_STS</b>		
		Verify Telemetry Crs2HFuncSts DEN69171		
		Verify Telemetry HifiLsuFuncSts DEL42171		
		<b>DID_ASW_PACS_BOLC_DEC_STS</b>		
		Verify Telemetry PacsDec1FuncSts DEL44171		
		Verify Telemetry PacsBolc1FuncSt DEL54171		
		<b>DID_ASW_GYRO_CRS1_STS</b>		
		Verify Telemetry GyrolFuncSts DEH38171		
		Verify Telemetry Crs1HFuncSts DEN68171		
		<b>DID_ASW_PCDU_STR_STS</b>		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Str2FuncSts DEG00170		
		Verify Telemetry Str1FuncSts DEG01170		
		Verify Telemetry Pcd2FuncSts DEG02170		
		Verify Telemetry Pcd2FailSts DEN05170		
		Verify Telemetry Pcd2LogSts DEN04170		
		Verify Telemetry Pcd2Use DEN03170		
		Verify Telemetry Pcd1FailSts DEN02170		
		Verify Telemetry Pcd1FuncSts DEG03170		
		Verify Telemetry Pcd1LogSts DEN01170		
		Verify Telemetry Pcd1Use DEN00170		
		<b>DID_ASW_RW1_RW2_STS</b>		
		Verify Telemetry Rw2FuncSts DEL37171		
		Verify Telemetry Rw1FuncSts DEL38171		
		<b>DID_ASW_RW3_RW4_STS</b>		
		Verify Telemetry Rw4FuncSts DEG33171		
		Verify Telemetry Rw3FuncSts DEL36171		
		<b>DID_ASW_HGPS1_HGPS2_STS</b>		
		Verify Telemetry Hgps1FuncSts DEN74170 = Off		
		Verify Telemetry Hgps2FuncSts DEN75170 = Off		
		<b>DID_ASW_HGPS3_HGPS4_STS</b>		
		Verify Telemetry Hgps3FuncSts DEN76170 = Off		

CDMS Subsystem Checkout  
 File: H\_FCP\_DHS\_3081.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Hgps4FuncSts DEN77170	= Off	
		<b>DID_ASW_HGPS5_HGPS6_STS</b>		
		Verify Telemetry Hgps5FuncSts DEN78170	= Off	
		Verify Telemetry Hgps6FuncSts DEN79170	= Off	
		<b>DID_ASW_HGPS7_HGPS8_STS</b>		
		Verify Telemetry Hgps7FuncSts DEN80170	= Off	
		Verify Telemetry Hgps8FuncSts DEN81170	= Off	
		<b>DID_ASW_HGPS9_HGPS10_STS</b>		
		Verify Telemetry Hgps9FuncSts DEN82170	= Off	
		Verify Telemetry Hgps10FuncSts DEN83170	= Off	
		<b>DID_ASW_HGPS11_HGPS12_STS</b>		
		Verify Telemetry Hgps11FuncSts DEN84170	= Off	
		Verify Telemetry Hgps12FuncSts DEN85170	= Off	
		<b>DID_ASW_HGPS13_HGPS14_STS</b>		
		Verify Telemetry Hgps13FuncSts DEN86170	= Off	
		Verify Telemetry Hgps14FuncSts DEN87170	= Off	
		<b>DID_ASW_HGPS15_HGPS16_STS</b>		
		Verify Telemetry Hgps15FuncSts DEN88170	= Off	
		Verify Telemetry Hgps16FuncSts DEN89170	= Off	
		<b>DID_ASW_HGPS17_HGPS18_STS</b>		
		Verify Telemetry Hgps17FuncSts DEN90170	= Off	
		Verify Telemetry Hgps18FuncSts DEN91170	= Off	

CDMS Subsystem Checkout  
File: H\_FCP\_DHS\_3081.xls  
Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>End of Procedure</b>				