

Check Sun Acquisition mode configuration
 File: H_FCP_DHS_4002.xls
 Author: S. Manganelli



Procedure Summary

Objectives

This procedure describes the steps needed to check the S/C status in Sun Acquisition mode.
 TM checks can be performed by H_FCP_DHS_SACK

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

HFD4002E

Referenced Displays

ANDs	GRDs	SLDs
ZAZAI999		(None)
ZAZAF999		
ZAD31999		

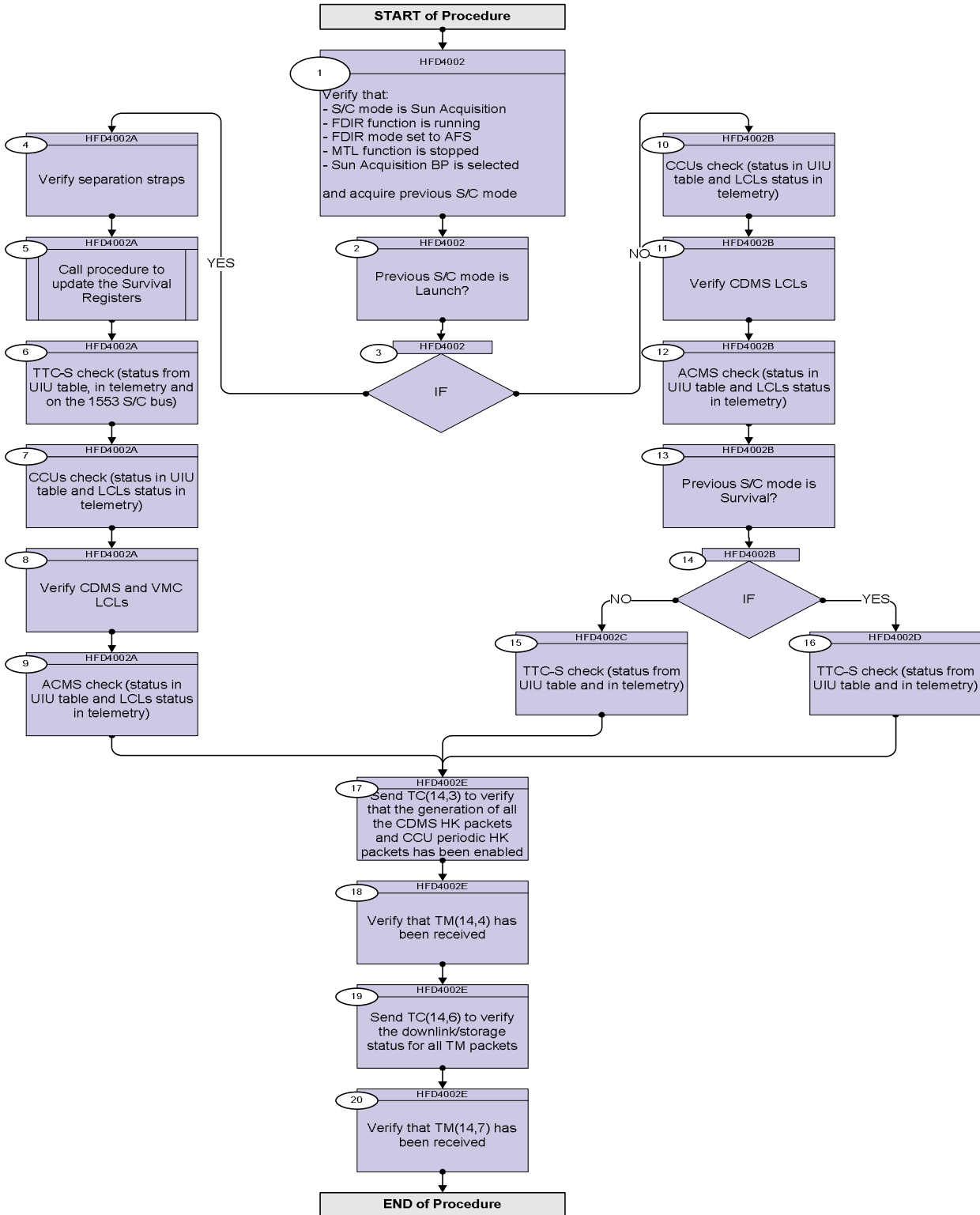
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
01/02/08		1	Created	cmevi-hp	
20/06/08	1	2	DB verification	S. Manganelli	
11/12/08		3	Checked against OBSW 3_6_2	S. Manganelli	
13/01/09	2	4	Updated following OBSW 3_8	S. Manganelli	
03/07/09	2.5	5	Following TAS inputs due to ASW update (XPONDER LCL always ON)	S. Manganelli	

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Procedure Flowchart Overview



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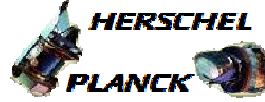
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
TC Seq. Name :HFD4002 (Dummy sequence.)				
TimeTag Type: Sub Schedule ID: □				
1		Verify that: - S/C mode is Sun Acquisition - FDIR function is running - FDIR mode set to AFS - MTL function is stopped - Sun Acquisition BP is selected and acquire previous S/C mode		Next Step: 2
		Verify Telemetry CurrentMode DEL34170	= SunAcquisition	AND=ZAZAI999
		Verify Telemetry FdirSts DEG23170	= Running	AND=ZAZAI999
		Verify Telemetry FdirMode DE81D170	= AFS	AND=ZAZAI999
		Verify Telemetry MtlSts DEH26170	= Stopped	AND=ZAZAI999
		Verify Telemetry BSW_SDB_ActProf DEF5F160		AND=ZAZAF999
		Verify Telemetry PrevMode DEL35170		AND=ZAZAI999
2		Previous S/C mode is Launch?		Next Step: 3
3		IF		Next Step: NO 10 YES 4
TC Seq. Name :HFD4002A (Verify SAM Mode.)				
TimeTag Type: Sub Schedule ID: □				
4		Verify separation straps		Next Step: 5
		Verify Telemetry Separ Strap1 ZMP13999	= Separated	AND=ZAD31999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Separ Strap2 ZMP14999	= Separated	AND=ZAD31999
5		Call procedure to update the Survival Registers		Next Step: 6
		WARNING: the called procedure must be executed twice to update Survival Register A and B.		
		In the called procedure, in step 4, choose "YES" and then in step 7, set the bit 0 (S/C forced separation status) of byte 4 and 5 to 1.		
		Execute procedure H_FCP_DHS_3080.		
6		TTC-S check (status from UIU table, in telemetry and on the 1553 S/C bus)		Next Step: 7
		<u>RFDN switches</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no RFDN failure occurred): <u>SW 1:</u> - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use" <u>SW 2:</u> - Fail="Not failed" - Functional="ON" - Logical="Redundant" - Use="Not in use"		
		<u>SW 3:</u> Fail="Not failed" Functional="ON" Logical="Nominal" Use="In use" <u>SW 4:</u> Fail="Not failed" Functional="ON" Logical="Redundant" Use="Not in use"		
		Verify Telemetry Rfdn1FailSts DEH48170		(None)
		Verify Telemetry Rfdn1FuncSts DEH49170		(None)
		Verify Telemetry Rfdn1LogSts DEH50170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Rfdn1Use DEH51170		(None)
		Verify Telemetry Rfdn2FailSts DEH52170		(None)
		Verify Telemetry Rfdn2FuncSts DEH53170		(None)
		Verify Telemetry Rfdn2LogSts DEH54170		(None)
		Verify Telemetry Rfdn2Use DEH55170		(None)
		Verify Telemetry Rfdn3FailSts DEH56170		(None)
		Verify Telemetry Rfdn3FuncSts DEH57170		(None)
		Verify Telemetry Rfdn3LogSts DEH58170		(None)
		Verify Telemetry Rfdn3Use DEH59170		(None)
		Verify Telemetry Rfdn4FailSts DEH60170		(None)
		Verify Telemetry Rfdn4FuncSts DEH61170		(None)
		Verify Telemetry Rfdn4LogSts DEH62170		(None)
		Verify Telemetry Rfdn4Use DEH63170		(None)
		<u>XPND 1/2 Transmitter and TWT Assembly 1/2</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred): <u>XPND1:</u> - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use" <u>XPND2:</u> - Fail="Not failed" - Functional="OFF" - Logical="Redundant" - Use="Not in use"		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		TWTA1: - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use" TWTA2: - Fail="Not failed" - Functional="OFF" - Logical="Redundant" - Use="Not in use"		
		Verify Telemetry XpndTx1FailSts DEL26170		(None)
		Verify Telemetry XpndTx1FuncSts DEL27170		(None)
		Verify Telemetry XpndTx1LogSts DEL28170		(None)
		Verify Telemetry XpndTx1Use DEL29170		(None)
		Verify Telemetry XpndTx2FailSts DEL30170		(None)
		Verify Telemetry XpndTx2FuncSts DEL31170		(None)
		Verify Telemetry XpndTx2LogSts DEL32170		(None)
		Verify Telemetry XpndTx2Use DEL33170		(None)
		Verify Telemetry TwtalFailSts DEL18170		(None)
		Verify Telemetry TwtalFuncSts DEL19170		(None)
		Verify Telemetry TwtalLogSts DEL20170		(None)
		Verify Telemetry TwtalUse DEL21170		(None)
		Verify Telemetry Twtal2FailSts DEL22170		(None)
		Verify Telemetry Twtal2FuncSts DEL23170		(None)
		Verify Telemetry Twtal2LogSts DEL24170		(None)
		Verify Telemetry Twtal2Use DEL25170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<u>EPC 1/2 and TWT Amplifier 1/2</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred): <u>EPC1:</u> - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use" <u>EPC2:</u> - Fail="Not failed" - Functional="OFF" - Logical="Redundant" - Use="Not in use"		
		<u>TWT1:</u> - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use" <u>TWT2:</u> - Fail="Not failed" - Functional="OFF" - Logical="Redundant" - Use="Not in use"		
		Verify Telemetry <div style="text-align: right;">Epc1FailSts</div> <div style="text-align: right;">DEG24170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Epc1FuncSts</div> <div style="text-align: right;">DEG25170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Epc1LogSts</div> <div style="text-align: right;">DEG26170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Epc1Use</div> <div style="text-align: right;">DEG27170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Epc2FailSts</div> <div style="text-align: right;">DEG28170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Epc2FuncSts</div> <div style="text-align: right;">DEG29170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Epc2LogSts</div> <div style="text-align: right;">DEG30170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Epc2Use</div> <div style="text-align: right;">DEG31170</div>		(None)
		Verify Telemetry <div style="text-align: right;">TwtAmplFailSts</div> <div style="text-align: right;">DEH12170</div>		(None)
		Verify Telemetry <div style="text-align: right;">TwtAmplFuncSts</div> <div style="text-align: right;">DEH13170</div>		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry TwtAmp1LogSts DEH14170		(None)
		Verify Telemetry TwtAmp1Use DEH15170		(None)
		Verify Telemetry TwtAmp2FailSts DEH16170		(None)
		Verify Telemetry TwtAmp2FuncSts DEH17170		(None)
		Verify Telemetry TwtAmp2LogSts DEH18170		(None)
		Verify Telemetry TwtAmp2Use DEH19170		(None)
		<u>XPND 1/2 RX</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred): <u>RX1:</u> - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use" <u>RX2:</u> - Fail="Not failed" - Functional="ON" - Logical="Redundant" - Use="Not in use"		
		Verify Telemetry XpndRx1FailSts DEL59170		(None)
		Verify Telemetry XpndRx1FuncSts DEL58170		(None)
		Verify Telemetry XpndRx1LogSts DEL57170		(None)
		Verify Telemetry XpndRx1Use DEL56170		(None)
		Verify Telemetry XpndRx2FailSts DEL63170		(None)
		Verify Telemetry XpndRx2FuncSts DEL62170		(None)
		Verify Telemetry XpndRx2LogSts DEL61170		(None)
		Verify Telemetry XpndRx2Use DEL60170		(None)

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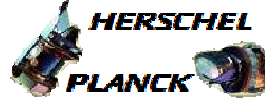
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<u>RFDN TMs</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no RFDN failure occurred): - <u>SW1</u> : "Pos A"=0 and "Pos B"=1 - <u>SW2</u> : "Pos A"=0 and "Pos B"=1 - <u>SW3</u> : "Pos A"=0 and "Pos B"=1 - <u>SW4</u> : "Pos A"=0 and "Pos B"=1		
		Verify Telemetry RFDN SW1 Pos A RMB05436		(None)
		Verify Telemetry RFDN SW1 Pos B RMB09436		(None)
		Verify Telemetry RFDN SW2 Pos A RMB06436		(None)
		Verify Telemetry RFDN SW2 Pos B RMB10436		(None)
		Verify Telemetry RFDN SW3 Pos A RMB07436		(None)
		Verify Telemetry RFDN SW3 Pos B RMB11436		(None)
		Verify Telemetry RFDN SW4 Pos A RMB08436		(None)
		Verify Telemetry RFDN SW4 Pos B RMB12436		(None)
		<u>TM Encoder (in use) and PCDU TMs</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred): - <u>XPND1</u> LCL: "ON" - <u>TWTA1</u> OP-LCL: "ON" - <u>XPND2</u> LCL: "OFF" - <u>TWTA2</u> OP-LCL: "OFF"		
		Verify Telemetry TME_BITRATE DEMRF160 = 5 Kbps		(None)
		Verify Telemetry Xpnd1Tx_L23_S WM12D565		(None)
		Verify Telemetry Twta_1_L49_1S WM22E565		(None)

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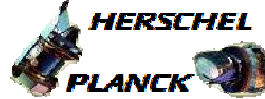
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Twta_1_L49_2S WM22K565		(None)
		Verify Telemetry Xpnd2Tx_L16_S WM92C565		(None)
		Verify Telemetry Twta_2_L50_1S WM92E565		(None)
		Verify Telemetry Twta_2_L50_2S WM92K565		(None)
		<u>XPND1/2 1553 S/C bus TMs</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred): <u>XPND1:</u> - TM MI=1.2 - RNG MI=0.6 - LR1="OFF" - LR2="ON" - MR="OFF" - HR="OFF" - RNG="ON" - CM="ON" - ER="OFF" - Output Power Level="OFF" - Internal Bit Pattern Generator="OFF"		
		<u>XPND2: don' t care (XPND2 LCL OFF)</u>		
		Verify Telemetry X1 TM MD ID-TMI RMB33442		(None)
		Verify Telemetry X1 RNGMD ID-RMI RMB32442		(None)
		Verify Telemetry X1 LowRate-1 MD RMB30442		(None)
		Verify Telemetry X1 LowRate-2 MD RMB31442		(None)
		Verify Telemetry X1 MedRate-MRM RMB29442		(None)
		Verify Telemetry X1 HIRateMD-HRM RMB28442		(None)
		Verify Telemetry X1 Rang MOD-RM RMB27442		(None)
		Verify Telemetry X1 Coher MOD-CM RMB26442		(None)
		Verify Telemetry X1 Ext Ref - ER RMB25442		(None)

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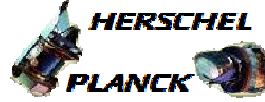
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry X1 OutPowLevSet RMB35442		(None)
		Verify Telemetry X1 IntBitPatGen RMB34442		(None)
		Verify Telemetry X2 TM MD ID-TMI RMB54442		(None)
		Verify Telemetry X2 RNGMD ID-RMI RMB53442		(None)
		Verify Telemetry X2 LowRate-1 MD RMB51442		(None)
		Verify Telemetry X2 LowRate-2 MD RMB52442		(None)
		Verify Telemetry X2 MedRate-MRM RMB50442		(None)
		Verify Telemetry X2 HIRateMD-HRM RMB49442		(None)
		Verify Telemetry X2 Rang MD - RM RMB48442		(None)
		Verify Telemetry X2 Coher MOD-CM RMB47442		(None)
		Verify Telemetry X2 Ext Ref - ER RMB46442		(None)
		Verify Telemetry X2 OutPowLevSet RMB56442		(None)
		Verify Telemetry X2 IntBitPatGen RMB55442		(None)
		<u>XPND1/2 analogue TMs</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred): - <u>TX1</u> ="ON" - <u>TX2</u> ="OFF" - <u>RF Output Power</u> (for active TX)= -4 dBm		
		Verify Telemetry TX1 ON-OFF Stat RMB15442		(None)
		Verify Telemetry RX1 125-4K Stat RMB17442	= 4 Kbps	(None)
		Verify Telemetry XPD1_RF1_OUT_PW RMB13442		(None)

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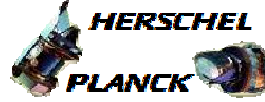
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry TX2 ON-OFF Stat RMB16442		(None)
		Verify Telemetry RX2 125-4K Stat RMB18442	= 4 Kbps	(None)
		Verify Telemetry XPD2_RF2_OUT_PW RMB14442		(None)
		<u>TWTA1/2 TMs</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred): - <u>EPC1</u> = "ON" - <u>TWT1</u> = "ON" - <u>EPC2</u> = "OFF" - <u>TWT2</u> = "OFF"		
		Verify Telemetry EPC1_ONOFF_STS RMB05439		(None)
		Verify Telemetry TWT1_ONOFF_STS RMB09439		(None)
		Verify Telemetry EPC2_ONOFF_STS RMB07439		(None)
		Verify Telemetry TWT2_ONOFF_STS RMB10439		(None)
		<u>1553 S/C bus</u> Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred): - <u>XPND1</u> : "ON" and "Valid" - <u>XPND2</u> : "OFF" and "Invalid"		
		Verify Telemetry XPND1On_Off DEFCEG160		(None)
		Verify Telemetry XPND1Val_Inval DEFCK160		(None)
		Verify Telemetry XPND2On_Off DEFDD1160		(None)
		Verify Telemetry XPND2Val_Inval DEFDD5160		(None)
7		CCUs check (status in UIU table and LCLs status in telemetry)		Next Step: 8

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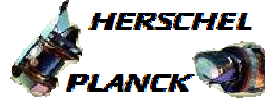
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry CcuAFuncSts DEL97171	= On	(None)
		Verify Telemetry CcuBFuncSts DEL96171	= On	(None)
		Verify Telemetry Ccu_A_L37_S WM12A565	= ON	(None)
		Verify Telemetry Ccu_B_L38_S WMA2A565	= ON	(None)
8		Verify CDMS and VMC LCLs		Next Step: 9
		Verify Telemetry CdmuColdA_L31_S WM22B565	= ON	(None)
		Verify Telemetry CdmuColdB_L32_S WM92B565	= ON	(None)
		Verify Telemetry VMC_L20_S WM82B565	= ON	(None)
9		ACMS check (status in UIU table and LCLs status in telemetry)		Next Step: 17
		<u>CRS 1/2</u>		
		Verify Telemetry Crs1HFuncSts DEN68171	= On	(None)
		Verify Telemetry Crs2HFuncSts DEN69171	= On	(None)
		Verify Telemetry CRS1_L15_S WM22C565	= ON	(None)
		Verify Telemetry CRS2_L24_S WMA2D565	= ON	(None)
		<u>Gyro A/B</u>		
		Verify Telemetry GyroA_L13_S WM92A565	= ON	(None)
		Verify Telemetry GyroB_L14_S WM22A565	= ON	(None)
		<u>STR 1/2</u>		
		Verify Telemetry STR_1_L21_S WMA2C565	= ON	(None)
		Verify Telemetry STR_2_L22_S WM12C565	= ON	(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<u>ACC A/B</u>		
		Verify Telemetry AccColdA_L33_S WM62B565	= ON	(None)
		Verify Telemetry AccColdB_L34_S WM52B565	= ON	(None)
		<u>RCS LV A/B</u>		
		Verify Telemetry RcsLvA_L47_1S WM12E565	= ON	(None)
		Verify Telemetry AccLvA_L47_2S WM12J565	= ON	(None)
		Verify Telemetry AccLvB_L48_1S WMA2E565	= ON	(None)
		Verify Telemetry AccLvB_L48_2S WMA2J565	= ON	(None)
		<u>RCS CBH A/B</u>		
		Expected configuration: LCL 17=ON, LCL 18=OFF		
		Verify Telemetry CBH_N_L17_S WMA2H565		(None)
		Verify Telemetry CBH_R_L18_S WM12H565		(None)
<p>TC Seq. Name :HFD4002B (Verification checks.)</p> <p>TimeTag Type: Sub Schedule ID:</p> <p><input type="checkbox"/></p>				
10		CCUs check (status in UIU table and LCLs status in telemetry)		Next Step: 11
		Verify Telemetry CcuAFuncSts DEL97171	= On	(None)
		Verify Telemetry CcuBFuncSts DEL96171	= On	(None)
		Verify Telemetry Ccu_A_L37_S WM12A565	= ON	(None)
		Verify Telemetry Ccu_B_L38_S WMA2A565	= ON	(None)

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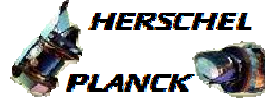
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
11		Verify CDMS LCLs		Next Step: 12
		Verify Telemetry CdmuColdA_L31_S WM22B565	= ON	(None)
		Verify Telemetry CdmuColdB_L32_S WM92B565	= ON	(None)
12		ACMS check (status in UIU table and LCLs status in telemetry)		Next Step: 13
		<u>CRS 1/2</u>		
		Verify Telemetry Crs1HFuncSts DEN68171	= On	(None)
		Verify Telemetry Crs2HFuncSts DEN69171	= On	(None)
		Verify Telemetry CRS1_L15_S WM22C565	= ON	(None)
		Verify Telemetry CRS2_L24_S WMA2D565	= ON	(None)
		<u>Gyro A/B</u>		
		Verify Telemetry GyroA_L13_S WM92A565	= ON	(None)
		Verify Telemetry GyroB_L14_S WM22A565	= ON	(None)
		<u>STR 1/2</u>		
		Verify Telemetry STR_1_L21_S WMA2C565	= ON	(None)
		Verify Telemetry STR_2_L22_S WM12C565	= ON	(None)
		<u>RW 1/2/3/4</u>		
		Verify Telemetry Rw1_1_L55_1S WM22F565	= ON	(None)
		Verify Telemetry Rw1_1_L55_2S WM22L565	= ON	(None)
		Verify Telemetry Rw1_2_L56_1S WM92F565	= ON	(None)
		Verify Telemetry Rw1_2_L56_2S WM92L565	= ON	(None)

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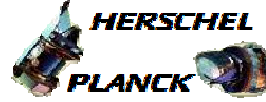
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Rwl_3_L57_1S WM12F565	= ON	(None)
		Verify Telemetry Rwl_3_L57_2S WM12K565	= ON	(None)
		Verify Telemetry Rwl_4_L58_1S WMA2F565	= ON	(None)
		Verify Telemetry Rwl_4_L58_2S WMA2K565	= ON	(None)
		<u>ACC A/B</u>		
		Verify Telemetry AccColdA_L33_S WM62B565	= ON	(None)
		Verify Telemetry AccColdB_L34_S WM52B565	= ON	(None)
		<u>RCS LV A/B</u>		
		Verify Telemetry RcsLvA_L47_1S WM12E565	= ON	(None)
		Verify Telemetry AccLvA_L47_2S WM12J565	= ON	(None)
		Verify Telemetry AccLvB_L48_1S WMA2E565	= ON	(None)
		Verify Telemetry AccLvB_L48_2S WMA2J565	= ON	(None)
		<u>RCS thruster A/B</u>		
		Verify Telemetry RcsThrsA_L45_1S WM22D565	= ON	(None)
		Verify Telemetry RcsThrsA_L45_2S WM22J565	= ON	(None)
		Verify Telemetry RcsThrsB_L46_1S WM92D565	= ON	(None)
		Verify Telemetry RcsThrsB_L46_2S WM92J565	= ON	(None)
		<u>RCS CBH A/B</u> Expected configuration: LCL 17=ON, LCL 18=OFF		
		Verify Telemetry CBH_N_L17_S WMA2H565		(None)
		Verify Telemetry CBH_R_L18_S WM12H565		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
13		Previous S/C mode is Survival?		Next Step: 14
14		IF		Next Step: NO 15 YES 16
<p>TC Seq. Name :HFD4002C (TTC-S checks.)</p> <p>TimeTag Type: Sub Schedule ID: □</p>				
15		TTC-S check (status from UIU table and in telemetry)		Next Step: 17
		<u>RFDN switches</u>		
		<p>Expected configuration (assuming to work with TTC S/S branch 1 and that no RFDN failure occurred):</p> <p><u>SW 1:</u> - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use"</p> <p><u>SW 2:</u> - Fail="Not failed" - Functional="ON" - Logical="Redundant" - Use="Not in use"</p> <p><u>SW 3:</u> Fail="Not failed" Functional="OFF" Logical="Nominal" Use="In use"</p> <p><u>SW 4:</u> Fail="Not failed" Functional="ON" Logical="Redundant" Use="Not in use"</p>		
		Verify Telemetry Rfdn1FailSts DEH48170		(None)
		Verify Telemetry Rfdn1FuncSts DEH49170		(None)
		Verify Telemetry Rfdn1LogSts DEH50170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Rfdn1Use DEH51170		(None)
		Verify Telemetry Rfdn2FailSts DEH52170		(None)
		Verify Telemetry Rfdn2FuncSts DEH53170		(None)
		Verify Telemetry Rfdn2LogSts DEH54170		(None)
		Verify Telemetry Rfdn2Use DEH55170		(None)
		Verify Telemetry Rfdn3FailSts DEH56170		(None)
		Verify Telemetry Rfdn3FuncSts DEH57170		(None)
		Verify Telemetry Rfdn3LogSts DEH58170		(None)
		Verify Telemetry Rfdn3Use DEH59170		(None)
		Verify Telemetry Rfdn4FailSts DEH60170		(None)
		Verify Telemetry Rfdn4FuncSts DEH61170		(None)
		Verify Telemetry Rfdn4LogSts DEH62170		(None)
		Verify Telemetry Rfdn4Use DEH63170		(None)
		<u>XPND 1/2 Transmitter and TWT Assembly 1/2</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred): <u>XPND1:</u> - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use" <u>XPND2:</u> - Fail="Not failed" - Functional="OFF" - Logical="Redundant" - Use="Not in use"		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		TWTA1: - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use" TWTA2: - Fail="Not failed" - Functional="OFF" - Logical="Redundant" - Use="Not in use"		
		Verify Telemetry XpndTx1FailSts DEL26170		(None)
		Verify Telemetry XpndTx1FuncSts DEL27170		(None)
		Verify Telemetry XpndTx1LogSts DEL28170		(None)
		Verify Telemetry XpndTx1Use DEL29170		(None)
		Verify Telemetry XpndTx2FailSts DEL30170		(None)
		Verify Telemetry XpndTx2FuncSts DEL31170		(None)
		Verify Telemetry XpndTx2LogSts DEL32170		(None)
		Verify Telemetry XpndTx2Use DEL33170		(None)
		Verify Telemetry TwtalFailSts DEL18170		(None)
		Verify Telemetry TwtalFuncSts DEL19170		(None)
		Verify Telemetry TwtalLogSts DEL20170		(None)
		Verify Telemetry TwtalUse DEL21170		(None)
		Verify Telemetry Twtal2FailSts DEL22170		(None)
		Verify Telemetry Twtal2FuncSts DEL23170		(None)
		Verify Telemetry Twtal2LogSts DEL24170		(None)
		Verify Telemetry Twtal2Use DEL25170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<u>EPC 1/2 and TWT Amplifier 1/2</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred): <u>EPC1:</u> - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use" <u>EPC2:</u> - Fail="Not failed" - Functional="OFF" - Logical="Redundant" - Use="Not in use"		
		<u>TWT1:</u> - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use" <u>TWT2:</u> - Fail="Not failed" - Functional="OFF" - Logical="Redundant" - Use="Not in use"		
		Verify Telemetry <div style="text-align: right;">Epc1FailSts</div> <div style="text-align: right;">DEG24170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Epc1FuncSts</div> <div style="text-align: right;">DEG25170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Epc1LogSts</div> <div style="text-align: right;">DEG26170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Epc1Use</div> <div style="text-align: right;">DEG27170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Epc2FailSts</div> <div style="text-align: right;">DEG28170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Epc2FuncSts</div> <div style="text-align: right;">DEG29170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Epc2LogSts</div> <div style="text-align: right;">DEG30170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Epc2Use</div> <div style="text-align: right;">DEG31170</div>		(None)
		Verify Telemetry <div style="text-align: right;">TwtAmplFailSts</div> <div style="text-align: right;">DEH12170</div>		(None)
		Verify Telemetry <div style="text-align: right;">TwtAmplFuncSts</div> <div style="text-align: right;">DEH13170</div>		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry TwtAmp1LogSts DEH14170		(None)
		Verify Telemetry TwtAmp1Use DEH15170		(None)
		Verify Telemetry TwtAmp2FailSts DEH16170		(None)
		Verify Telemetry TwtAmp2FuncSts DEH17170		(None)
		Verify Telemetry TwtAmp2LogSts DEH18170		(None)
		Verify Telemetry TwtAmp2Use DEH19170		(None)
		<u>XPND 1/2 RX</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred): <u>RX1:</u> - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use" <u>RX2:</u> - Fail="Not failed" - Functional="ON" - Logical="Redundant" - Use="Not in use"		
		Verify Telemetry XpndRx1FailSts DEL59170		(None)
		Verify Telemetry XpndRx1FuncSts DEL58170		(None)
		Verify Telemetry XpndRx1LogSts DEL57170		(None)
		Verify Telemetry XpndRx1Use DEL56170		(None)
		Verify Telemetry XpndRx2FailSts DEL63170		(None)
		Verify Telemetry XpndRx2FuncSts DEL62170		(None)
		Verify Telemetry XpndRx2LogSts DEL61170		(None)
		Verify Telemetry XpndRx2Use DEL60170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<u>RFDN TMs</u>		
		<p>Expected configuration (assuming to work with TTC S/S branch 1 and that no RFDN failure occurred):</p> <ul style="list-style-type: none"> - <u>SW1</u>: "Pos A"=0 and "Pos B"=1 - <u>SW2</u>: "Pos A"=0 and "Pos B"=1 - <u>SW3</u>: "Pos A"=1 and "Pos B"=0 - <u>SW4</u>: "Pos A"=0 and "Pos B"=1 		
		Verify Telemetry RFDN SW1 Pos A RMB05436		(None)
		Verify Telemetry RFDN SW1 Pos B RMB09436		(None)
		Verify Telemetry RFDN SW2 Pos A RMB06436		(None)
		Verify Telemetry RFDN SW2 Pos B RMB10436		(None)
		Verify Telemetry RFDN SW3 Pos A RMB07436		(None)
		Verify Telemetry RFDN SW3 Pos B RMB11436		(None)
		Verify Telemetry RFDN SW4 Pos A RMB08436		(None)
		Verify Telemetry RFDN SW4 Pos B RMB12436		(None)
		<u>TM Encoder (in use) and PCDU TMs</u>		
		<p>Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred):</p> <ul style="list-style-type: none"> - <u>XPND1</u> LCL: "ON" - <u>TWTA1</u> OP-LCL: "ON" - <u>XPND2</u> LCL: "ON" - <u>TWTA2</u> OP-LCL: "OFF" 		
		Verify Telemetry TME_BITRATE DEMRF160 = 500 bps		(None)
		Verify Telemetry Xpnd1Tx_L23_S WM12D565		(None)
		Verify Telemetry Twta_1_L49_1S WM22E565		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Twta_1_L49_2S WM22K565		(None)
		Verify Telemetry Xpnd2Tx_L16_S WM92C565		(None)
		Verify Telemetry Twta_2_L50_1S WM92E565		(None)
		Verify Telemetry Twta_2_L50_2S WM92K565		(None)
		<u>XPND1/2 1553 S/C bus TMs</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred): <u>XPND1:</u> - TM MI=1.2 - RNG MI=0.6 - LR1="ON" - LR2="OFF" - MR="OFF" - HR="OFF" - RNG="OFF" - CM="OFF" - ER="OFF" - Output Power Level="OFF" - Internal Bit Pattern Generator="OFF"		
		<u>XPND2:</u> is expected to have the same configuration as before transition to Sun Acquisition mode.		
		Verify Telemetry X1 TM MD ID-TMI RMB33442		(None)
		Verify Telemetry X1 RNGMD ID-RMI RMB32442		(None)
		Verify Telemetry X1 LowRate-1 MD RMB30442		(None)
		Verify Telemetry X1 LowRate-2 MD RMB31442		(None)
		Verify Telemetry X1 MedRate-MRM RMB29442		(None)
		Verify Telemetry X1 HIRateMD-HRM RMB28442		(None)
		Verify Telemetry X1 Rang MOD-RM RMB27442		(None)
		Verify Telemetry X1 Coher MOD-CM RMB26442		(None)

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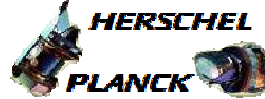
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry X1 Ext Ref - ER RMB25442		(None)
		Verify Telemetry X1 OutPowLevSet RMB35442		(None)
		Verify Telemetry X1 IntBitPatGen RMB34442		(None)
		Verify Telemetry X2 TM MD ID-TMI RMB54442		(None)
		Verify Telemetry X2 RNGMD ID-RMI RMB53442		(None)
		Verify Telemetry X2 LowRate-1 MD RMB51442		(None)
		Verify Telemetry X2 LowRate-2 MD RMB52442		(None)
		Verify Telemetry X2 MedRate-MRM RMB50442		(None)
		Verify Telemetry X2 HIRateMD-HRM RMB49442		(None)
		Verify Telemetry X2 Rang MD - RM RMB48442		(None)
		Verify Telemetry X2 Coher MOD-CM RMB47442		(None)
		Verify Telemetry X2 Ext Ref - ER RMB46442		(None)
		Verify Telemetry X2 OutPowLevSet RMB56442		(None)
		Verify Telemetry X2 IntBitPatGen RMB55442		(None)
		<u>XPND1/2 analogue TMs</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred): - TX1="ON" - TX2="OFF" - RF Output Power (for active TX)= -4 dBm		
		Verify Telemetry TX1 ON-OFF Stat RMB15442		(None)
		Verify Telemetry RX1 125-4K Stat RMB17442	= 125 bps	(None)

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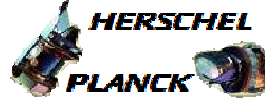
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry XPD1_RF1_OUT_PW RMB13442		(None)
		Verify Telemetry TX2 ON-OFF Stat RMB16442		(None)
		Verify Telemetry RX2 125-4K Stat RMB18442	= 125 bps	(None)
		Verify Telemetry XPD2_RF2_OUT_PW RMB14442		(None)
		<u>TWTA1/2 TMs</u>		
		Expected configuration (assuming to work with TTC S/S branch 1 and that no TTC failure occurred): - <u>EPC1</u> = "ON" - <u>TWT1</u> = "ON" - <u>EPC2</u> = "OFF" - <u>TWT2</u> = "OFF"		
		Verify Telemetry EPC1_ONOFF_STS RMB05439		(None)
		Verify Telemetry TWT1_ONOFF_STS RMB09439		(None)
		Verify Telemetry EPC2_ONOFF_STS RMB07439		(None)
		Verify Telemetry TWT2_ONOFF_STS RMB10439		(None)
<p>TC Seq. Name :HFD4002D (TTC-S checks.)</p> <p>TimeTag Type: Sub Schedule ID: □</p>				
16		TTC-S check (status from UIU table and in telemetry)		Next Step: 17
		<u>RFDN switches</u>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Expected configuration: SW 1: - Fail="Not failed" - Functional="OFF" - Logical="Nominal" - Use="In use" SW 2: - Fail="Not failed" - Functional="ON" - Logical="Redundant" - Use="Not in use"		
		SW 3: Fail="Not failed" Functional="OFF" Logical="Nominal" Use="In use" SW 4: Fail="Not failed" Functional="ON" Logical="Redundant" Use="Not in use"		
		Verify Telemetry <div style="text-align: right;">Rfdn1FailSts DEH48170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Rfdn1FuncSts DEH49170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Rfdn1LogSts DEH50170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Rfdn1Use DEH51170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Rfdn2FailSts DEH52170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Rfdn2FuncSts DEH53170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Rfdn2LogSts DEH54170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Rfdn2Use DEH55170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Rfdn3FailSts DEH56170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Rfdn3FuncSts DEH57170</div>		(None)
		Verify Telemetry <div style="text-align: right;">Rfdn3LogSts DEH58170</div>		(None)

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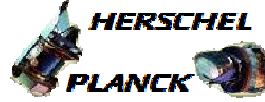
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Rfdn3Use DEH59170		(None)
		Verify Telemetry Rfdn4FailSts DEH60170		(None)
		Verify Telemetry Rfdn4FuncSts DEH61170		(None)
		Verify Telemetry Rfdn4LogSts DEH62170		(None)
		Verify Telemetry Rfdn4Use DEH63170		(None)
		<u>XPND 1/2 Transmitter and TWT Assembly 1/2</u>		
		Expected configuration: <u>XPND1:</u> - Fail="Not failed" - Functional="OFF" - Logical="Redundant" - Use="Not in use" <u>XPND2:</u> - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use"		
		<u>TWTA1:</u> - Fail="Not failed" - Functional="OFF" - Logical="Redundant" - Use="Not in use" <u>TWTA2:</u> - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use"		
		Verify Telemetry XpndTx1FailSts DEL26170		(None)
		Verify Telemetry XpndTx1FuncSts DEL27170		(None)
		Verify Telemetry XpndTx1LogSts DEL28170		(None)
		Verify Telemetry XpndTx1Use DEL29170		(None)
		Verify Telemetry XpndTx2FailSts DEL30170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry XpndTx2FuncSts DEL31170		(None)
		Verify Telemetry XpndTx2LogSts DEL32170		(None)
		Verify Telemetry XpndTx2Use DEL33170		(None)
		Verify Telemetry TwtalFailSts DEL18170		(None)
		Verify Telemetry TwtalFuncSts DEL19170		(None)
		Verify Telemetry TwtalLogSts DEL20170		(None)
		Verify Telemetry TwtalUse DEL21170		(None)
		Verify Telemetry Twtal2FailSts DEL22170		(None)
		Verify Telemetry Twtal2FuncSts DEL23170		(None)
		Verify Telemetry Twtal2LogSts DEL24170		(None)
		Verify Telemetry Twtal2Use DEL25170		(None)
		<u>EPC 1/2 and TWT Amplifier 1/2</u>		
		Expected configuration: <u>EPC1:</u> - Fail="Not failed" - Functional="OFF" - Logical="Redundant" - Use="Not in use" <u>EPC2:</u> - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use"		

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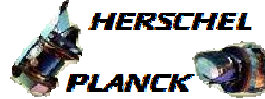
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		TWT1: - Fail="Not failed" - Functional="OFF" - Logical="Redundant" - Use="Not in use" TWT2: - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use"		
		Verify Telemetry Epc1FailSts DEG24170		(None)
		Verify Telemetry Epc1FuncSts DEG25170		(None)
		Verify Telemetry Epc1LogSts DEG26170		(None)
		Verify Telemetry Epc1Use DEG27170		(None)
		Verify Telemetry Epc2FailSts DEG28170		(None)
		Verify Telemetry Epc2FuncSts DEG29170		(None)
		Verify Telemetry Epc2LogSts DEG30170		(None)
		Verify Telemetry Epc2Use DEG31170		(None)
		Verify Telemetry TwtAmp1FailSts DEH12170		(None)
		Verify Telemetry TwtAmp1FuncSts DEH13170		(None)
		Verify Telemetry TwtAmp1LogSts DEH14170		(None)
		Verify Telemetry TwtAmp1Use DEH15170		(None)
		Verify Telemetry TwtAmp2FailSts DEH16170		(None)
		Verify Telemetry TwtAmp2FuncSts DEH17170		(None)
		Verify Telemetry TwtAmp2LogSts DEH18170		(None)
		Verify Telemetry TwtAmp2Use DEH19170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<u>XPND 1/2 RX</u>		
		Expected configuration: <u>RX1:</u> - Fail="Not failed" - Functional="ON" - Logical="Redundant" - Use="Not in use" <u>RX2:</u> - Fail="Not failed" - Functional="ON" - Logical="Nominal" - Use="In use"		
		Verify Telemetry XpndRx1FailSts DEL59170		(None)
		Verify Telemetry XpndRx1FuncSts DEL58170		(None)
		Verify Telemetry XpndRx1LogSts DEL57170		(None)
		Verify Telemetry XpndRx1Use DEL56170		(None)
		Verify Telemetry XpndRx2FailSts DEL63170		(None)
		Verify Telemetry XpndRx2FuncSts DEL62170		(None)
		Verify Telemetry XpndRx2LogSts DEL61170		(None)
		Verify Telemetry XpndRx2Use DEL60170		(None)
		<u>RFDN TMs</u>		
		Expected configuration: - <u>SW1:</u> "Pos A"=1 and "Pos B"=0 - <u>SW2:</u> "Pos A"=0 and "Pos B"=1 - <u>SW3:</u> "Pos A"=1 and "Pos B"=0 - <u>SW4:</u> "Pos A"=0 and "Pos B"=1		
		Verify Telemetry RFDN SW1 Pos A RMB05436		(None)
		Verify Telemetry RFDN SW1 Pos B RMB09436		(None)

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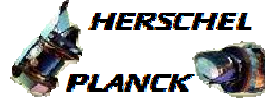
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry RFDN SW2 Pos A RMB06436		(None)
		Verify Telemetry RFDN SW2 Pos B RMB10436		(None)
		Verify Telemetry RFDN SW3 Pos A RMB07436		(None)
		Verify Telemetry RFDN SW3 Pos B RMB11436		(None)
		Verify Telemetry RFDN SW4 Pos A RMB08436		(None)
		Verify Telemetry RFDN SW4 Pos B RMB12436		(None)
		<u>TM Encoder (in use) and PCDU TMs</u>		
		Expected configuration: - <u>XPND1</u> LCL: "ON" - <u>TWTA1</u> OP-LCL: "OFF" - <u>XPND2</u> LCL: "ON" - <u>TWTA2</u> OP-LCL: "ON"		
		Verify Telemetry TME_BITRATE DEMRF160 = 500 bps		(None)
		Verify Telemetry Xpnd1Tx_L23_S WM12D565		(None)
		Verify Telemetry Twta_1_L49_1S WM22E565		(None)
		Verify Telemetry Twta_1_L49_2S WM22K565		(None)
		Verify Telemetry Xpnd2Tx_L16_S WM92C565		(None)
		Verify Telemetry Twta_2_L50_1S WM92E565		(None)
		Verify Telemetry Twta_2_L50_2S WM92K565		(None)
		<u>XPND1/2 1553 S/C bus TMs</u>		

Check Sun Acquisition mode configuration
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Expected configuration: XPND1: is expected to have the same configuration as before transition to Sun Acquisition mode.		
		XPND2: - TM MI=1.2 - RNG MI=0.6 - LR1="ON" - LR2="OFF" - MR="OFF" - HR="OFF" - RNG="OFF" - CM="OFF" - ER="OFF" - Output Power Level="OFF" - Internal Bit Pattern Generator="OFF"		
		Verify Telemetry X1 TM MD ID-TMI RMB33442		(None)
		Verify Telemetry X1 RNGMD ID-RMI RMB32442		(None)
		Verify Telemetry X1 LowRate-1 MD RMB30442		(None)
		Verify Telemetry X1 LowRate-2 MD RMB31442		(None)
		Verify Telemetry X1 MedRate-MRM RMB29442		(None)
		Verify Telemetry X1 HIRateMD-HRM RMB28442		(None)
		Verify Telemetry X1 Rang MOD-RM RMB27442		(None)
		Verify Telemetry X1 Coher MOD-CM RMB26442		(None)
		Verify Telemetry X1 Ext Ref - ER RMB25442		(None)
		Verify Telemetry X1 OutPowLevSet RMB35442		(None)
		Verify Telemetry X1 IntBitPatGen RMB34442		(None)
		Verify Telemetry X2 TM MD ID-TMI RMB54442		(None)
		Verify Telemetry X2 RNGMD ID-RMI RMB53442		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry X2 LowRate-1 MD RMB51442		(None)
		Verify Telemetry X2 LowRate-2 MD RMB52442		(None)
		Verify Telemetry X2 MedRate-MRM RMB50442		(None)
		Verify Telemetry X2 HIRateMD-HRM RMB49442		(None)
		Verify Telemetry X2 Rang MD - RM RMB48442		(None)
		Verify Telemetry X2 Coher MOD-CM RMB47442		(None)
		Verify Telemetry X2 Ext Ref - ER RMB46442		(None)
		Verify Telemetry X2 OutPowLevSet RMB56442		(None)
		Verify Telemetry X2 IntBitPatGen RMB55442		(None)
		<u>XPND1/2 analogue TMs</u>		
		Expected configuration: - <u>TX1</u> ="OFF" - <u>TX2</u> ="ON" - <u>RF Output Power</u> (for active TX)= -4 dBm		
		Verify Telemetry TX1 ON-OFF Stat RMB15442		(None)
		Verify Telemetry RX1 125-4K Stat RMB17442	= 125 bps	(None)
		Verify Telemetry XPD1_RF1_OUT_PW RMB13442		(None)
		Verify Telemetry TX2 ON-OFF Stat RMB16442		(None)
		Verify Telemetry RX2 125-4K Stat RMB18442	= 125 bps	(None)
		Verify Telemetry XPD2_RF2_OUT_PW RMB14442		(None)
		<u>TWTA1/2 TMs</u>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry APID DE047160		(None)
		Verify Telemetry Type DE043160		(None)
		Verify Telemetry Sub-Type DE046160		(None)
		Verify Telemetry Transmit_Flag DE048160		(None)
		Verify Telemetry Storage_Flag DE049160		(None)
End of Procedure				