

Upload LCU safety table
 File: H_FCP_HIF_RLUT.xls
 Author: R. Biggins



Procedure Summary

Objectives

This procedure describes the steps to load the LCU table via a set of 16 IPF files (note that the procedures do not contain any further information and do not need to be referred to)

Summary of Constraints

This procedure is part of a defined sequence
 - The procedure H_FCP_HIF_CUPM must have successfully completed before execution of this procedure
 - This procedure is followed by the procedure H_FCP_HIF_CCRC

Spacecraft Configuration

Start of Procedure

HIFI is in Standby mode

End of Procedure

No change to HIFI mode

Reference File(s)

Input Command Sequences

Output Command Sequences

HFHRLUT

Referenced Displays

ANDs	GRDs	SLDs
HA000289		
HA060289		
HA061289		
HA004289		

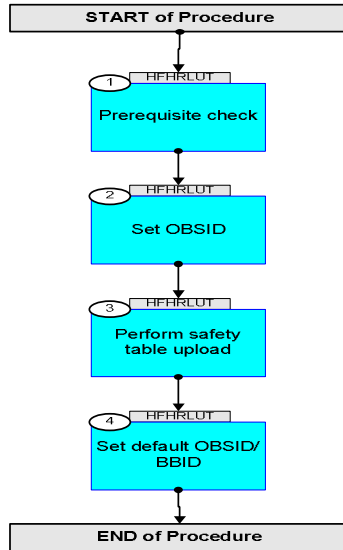
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
05/06/08	1	1	Created	R. Biggins	
19/02/09	2.1	1.01	Validation : Procedure summary updated	R. Biggins	
26/11/09	3	2	Updates due to Prime unit failure resulting in new operation scheme - Updated to reflect new mode name - Procedure cover updated	R. Biggins	

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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 : HFHRLUT (Upload LCU table)				
TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
1		Prerequisite check		Next Step: 2
1.1		HSC/ICC input		<input type="checkbox"/>
		Verify that the HSC has supplied a valid OBSID value OBS_ID = 0xnnnn nnnn		
		Verify that the following IPF files have been supplied and can be called from the Manual Stack (where vvvv is the latest version number):		
		HFHRUT0_00010450_vvvv.IPF HFHRUT1_04510900_vvvv.IPF HFHRUT2_09011350_vvvv.IPF HFHRUT3_13511800_vvvv.IPF HFHRUT4_18012250_vvvv.IPF HFHRUT5_22512700_vvvv.IPF HFHRUT6_27013150_vvvv.IPF HFHRUT7_31513600_vvvv.IPF HFHRUT8_36014050_vvvv.IPF HFHRUT9_40514500_vvvv.IPF HFHRUTA_45014900_vvvv.IPF HFHRUTB_49015400_vvvv.IPF HFHRUTC_54015850_vvvv.IPF HFHRUTD_58516300_vvvv.IPF HFHRUTE_63016750_vvvv.IPF		
		HFHRUTF_67517200_vvvv.IPF HFHRUTG_72017650_vvvv.IPF HFHRUTH_76517905_vvvv.IPF		
1.2		Verify: HIFI mode		<input type="checkbox"/>
		Verify Telemetry HL_MODE_S HM258194 = standby1		AND=HA004289
		Verify Telemetry HI_Prime_red HM009190 = HIFI_redundant		AND=HA000289
1.3		Verify: Laser status		<input type="checkbox"/>
		Verify Telemetry HWH_Laser1_S HM017193 = OFF		AND=HA060289

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry HWH_Laser2_S HM016193	= OFF	AND=HA060289
		Verify Telemetry HWV_Laser1_S HM056193	= OFF	AND=HA061289
		Verify Telemetry HWV_Laser2_S HM055193	= OFF	AND=HA061289
2		Set OBSID		Next Step: 3
	ET=+ UT=+00.00.00	HIFI_Set_OBS_ID HIFI_Set_OBS_ID Command Parameter(s) : HIFI_BB_ID HP001197 HIFI_OBS_ID HP000197 SSID : 70	HC014289 1EF20001 <hex> OBS_ID	
		Verify Telemetry BB_ID_per_hk HM004190	= 1EF20001 <hex>	AND=HA000289
		Verify Telemetry OBS_ID_per_hk HM003190	OBS_ID	AND=HA000289
3		Perform safety table upload		Next Step: 4
		The table upload consists of the uplink of approximately 16000 parameters split into 16 separate TPF files (due to the TPF limitation of a maximum of 999 parameters)		
		The SPACON should load all of the following TPFs in order and verify that all 16 sequences are present. WARNING: In order to reduce the risk of loading the wrong TPF, the SPACON should filter on the sequence name "HFHRUT"		
		HFHRUT0_00010450_vvvv.IPF HFHRUT1_04510900_vvvv.IPF HFHRUT2_09011350_vvvv.IPF HFHRUT3_13511800_vvvv.IPF HFHRUT4_18012250_vvvv.IPF HFHRUT5_22512700_vvvv.IPF HFHRUT6_27013150_vvvv.IPF HFHRUT7_31513600_vvvv.IPF HFHRUT8_36014050_vvvv.IPF HFHRUT9_40514500_vvvv.IPF HFHRUTA_45014900_vvvv.IPF HFHRUTB_49015400_vvvv.IPF HFHRUTC_54015850_vvvv.IPF HFHRUTD_58516300_vvvv.IPF HFHRUTE_63016750_vvvv.IPF		

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		HFHRUTF_67517200_vvvv.IPF HFHRUTG_72017650_vvvv.IPF HFHRUTH_76517905_vvvv.IPF		
		All of the commands should be set to automatically execute and then send all TCs		
4		Set default OBSID/BBID		Next Step: END
	ET=+ UT=+00.00.01	HIFI_Set_OBS_ID HIFI_Set_OBS_ID Command Parameter(s) : HIFI_BB_ID HP001197 HIFI_OBS_ID HP000197 SSID : 70	HC014289 0 <hex> (Def) 0 <hex> (Def)	
		Verify Telemetry BB_ID_per_hk HM004190	= 0 <hex>	AND=HA000289
		Verify Telemetry OBS_ID_per_hk HM003190	= 0 <hex>	AND=HA000289
End of Procedure				