

Standby II mode to Primary mode  
 File: H\_FCP\_HIF\_CS2P.xls  
 Author: R. Biggins



## Procedure Summary

### Objectives

The objective of this procedure is to transition from Standby I or Dissipative mode (with or without lasers ON)

### Summary of Constraints

This procedure is valid for Prime and Redundant units.

### Spacecraft Configuration

#### Start of Procedure

HIFI is in Standby I or Dissipative mode (with or without lasers on)

#### End of Procedure

HIFI is in Primary mode

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

HFHCS2P

### Referenced Displays

**ANDs**      **GRDs**      **SLDs**  
 ZAZ9C999  
 ZAZ9D999

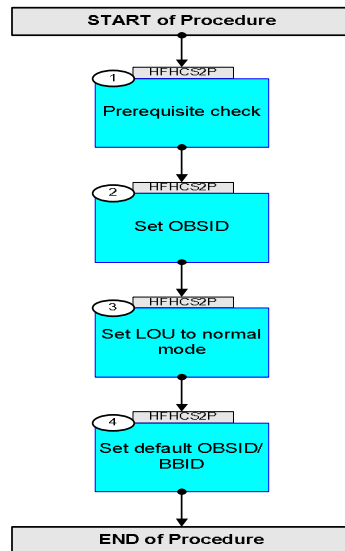
### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
05/06/08	1	1	Created	R. Biggins	
26/11/09	3	2	Updates due to Prime unit failure resulting in new operation scheme - Procedure cover updated - Step 1.2 TM checks updated - Step 1.4 updated to add comment for contingency	R. Biggins	

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## Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>Beginning of Procedure</b>				
TC Seq. Name : HFHCS2P (Transition Primary)				
TimeTag Type: N				
Sub Schedule ID:				
□				
1		Prerequisite check		Next Step: 2
1.1		HSC/ICC input		□
		Verify that the HSC has supplied a valid OBSID value  OBS_ID = 0xnnnn nnnn		
1.2		Verify: HIFI mode		□
		Verify Telemetry  HL_MODE_S                      HM258194	= dissipative = standby1	AND=ZAZ9C999
1.3		Verify: Unit status		□
		Verify Telemetry  HI_FCU_S                      HM000191	= ON	AND=ZAZ9C999
		Verify Telemetry  HI_WBSH_S                     HM000193	= ON	AND=ZAZ9C999
		Verify Telemetry  HI_WBSV_S                     HM001193	= ON	AND=ZAZ9C999
		Verify Telemetry  HI_HRSH_S                     HM000192	= ON	AND=ZAZ9C999
		Verify Telemetry  HI_HRSV_S                     HM001192	= ON	AND=ZAZ9C999
1.4		Verify: System status		□
		Verify Telemetry  HL_Channel_S                   HM003194	= OFF	AND=ZAZ9C999
		Note that in the following AND check, either HWH_Laser_1_S and HWV_Laser_1_S are ON <b>or</b> HWH_Laser_2_S and HWV_Laser_2_S are ON		
		Refer to Checkform ZAZ9D999 at the back of this document		ANDCK

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<b>CONTINGENCY:</b>  If the above TM checks are not true, verify with the HIFI representative whether to continue. HIFI may also indicate before execution that the status may be different and should supply the expected value(s).		
2		Set <i>OBSID</i>		Next Step: 3
	ET=+ UT=+00.00.00	HIFI_Set_OBS_ID  Command Parameter(s) : HIFI_BB_ID                  HP001197 HIFI_OBS_ID                  HP000197  TC Control Flags :  GBM IL DSE --Y -- ---  SSID : 70	HC014289  1EF20001 <hex> OBS_ID	
		Verify Telemetry  BB_ID_per_hk                  HM004190	= 1EF20001 <hex>	AND=ZAZ9C999
		Verify Telemetry  OBS_ID_per_hk                  HM003190	OBS_ID	AND=ZAZ9C999
3		Set <i>LOU</i> to normal mode		Next Step: 4
	ET=+ UT=+00.00.00	Execute Telecommand  SelectActiveSCBP  Command Parameter(s) : SCBP                  DH049160  TC Control Flags :  GBM IL DSE --Y -- ---  SSID : 10	DC819160  SCBP_02	
		Verify Telemetry  BSW_SDB_ActProf                  DEF5F160	= 2 <dec>	AND=ZAZ9C999
	ET=+ UT=+00.00.01	HIFI_HL_Normal  Command Parameter(s) : HIFI_BB_ID                  HP001197  TC Control Flags :  GBM IL DSE --Y -- ---  SSID : 70	HC082289  1DCA0001 <hex>	
		Verify Telemetry  BB_ID_per_hk                  HM004190	= 1DCA0001 <hex>	AND=ZAZ9C999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry HL_MODE_S HM258194	= normal	AND=ZAZ9C999
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 TC Control Flags : GBM IL DSE --Y -- -- SSID : 70	HC014289 0 <hex> (Def) 0 <hex> (Def)	
		Verify Telemetry BB_ID_per_hk HM004190	= 0 <hex>	AND=ZAZ9C999
		Verify Telemetry OBS_ID_per_hk HM003190	= 0 <hex>	AND=ZAZ9C999
<b>End of Procedure</b>				

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ZAZ9D999 / HIFI: Status parameters							
ID	DESCRIPTION	VALUE	UNIT	ID	DESCRIPTION	VALUE	UNIT
HM056193	HWV_Laser1_S	ON or OFF		HM017193	HWH_Laser1_S	ON or OFF	
HM055193	HWV_Laser2_S	ON or OFF		HM016193	HWH_Laser2_S	ON or OFF	
HM057193	HWV_LUP_level_S	Low		HM018193	HWH_LUP_level_S	Low	
HM059193	HWV_Comb_S	OFF		HM020193	HWH_Comb_S	OFF	
HM060193	HWV_Zero_S	ON		HM021193	HWH_Zero_S	ON	
HM134192	HRV_Lock_LO1_S			HM009192	HRH_Lock_LO1_S		
HM135192	HRV_Lock_LO2_S			HM010192	HRH_Lock_LO2_S		
HM136192	HRV_Lock_LO3_S			HM011192	HRH_Lock_LO3_S		
HM137192	HRV_Lock_LO4_S			HM012192	HRH_Lock_LO4_S		
HM138192	HRV_Lock_LO5_S			HM013192	HRH_Lock_LO5_S		
HM139192	HRV_Lock_LO6_S			HM014192	HRH_Lock_LO6_S		
HM140192	HRV_Lock_LO7_S			HM015192	HRH_Lock_LO7_S		
HM142192	HRV_1U_ATT			HM017192	HRH_1U_ATT		
HM143192	HRV_1L_ATT			HM018192	HRH_1L_ATT		
HM144192	HRV_2U_ATT			HM019192	HRH_2U_ATT		
HM145192	HRV_2L_ATT			HM020192	HRH_2L_ATT		
HM147192	HRV_3U_ATT			HM022192	HRH_3U_ATT		
HM148192	HRV_3L_ATT			HM023192	HRH_3L_ATT		
HM149192	HRV_4U_ATT			HM024192	HRH_4U_ATT		
HM150192	HRV_4L_ATT			HM025192	HRH_4L_ATT		
HM151192	HRV_LO1_F			HM026192	HRH_LO1_F		
HM154192	HRV_LO2_F			HM029192	HRH_LO2_F		
HM157192	HRV_LO3_F			HM032192	HRH_LO3_F		
HM160192	HRV_LO4_F			HM035192	HRH_LO4_F		
HM163192	HRV_LO5_F			HM038192	HRH_LO5_F		
HM166192	HRV_LO6_F			HM041192	HRH_LO6_F		
HM169192	HRV_LO7_F			HM044192	HRH_LO7_F		
HM047193	HWV_IN_ATT	15	dB	HM008193	HWH_IN_ATT	15	dB
HM048193	HWV_Band_1_ATT	7	dB	HM009193	HWH_Band_1_ATT	7	dB
HM049193	HWV_Band_2_ATT	7	dB	HM010193	HWH_Band_2_ATT	7	dB
HM050193	HWV_Band_3_ATT	7	dB	HM011193	HWH_Band_3_ATT	7	dB
HM051193	HWV_Band_4_ATT	7	dB	HM012193	HWH_Band_4_ATT	7	dB