

Enable the Local Oscillator Unit
 File: H_FCP_HIF_LENA.xls
 Author: R. Biggins



Procedure Summary

Objectives

The objective of this procedure is to enable the Local Oscillator Unit.

Based on procedure:
 HifiManCmd_LO_enable (v2)

Summary of Constraints

Spacecraft Configuration

Start of Procedure

HIFI in Standby1 or Normal mode
 - LOU is disabled

End of Procedure

HIFI in Standby1 or Normal mode
 - LOU is enabled

Reference File(s)

Input Command Sequences

Output Command Sequences

HPHLENA

Referenced Displays

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

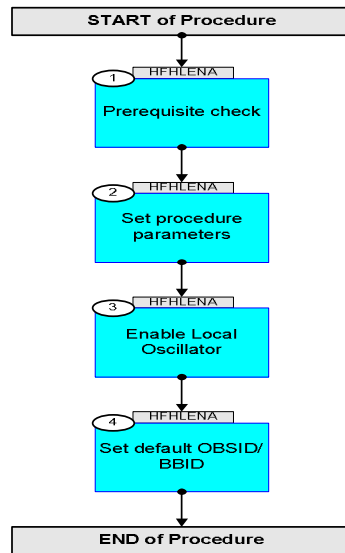
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
14/04/09	2.3	1	Created	R. Biggins	
26/11/09	3	2	Updates due to Prime unit failure resulting in new operation scheme - Step 1.2 added to check mode - 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 :HFHLENA (Enable LO)				
TimeTag Type: B				
Sub Schedule ID:				
□				
1		Prerequisite check		Next Step: 2
1.1		HSC/ICC input		□
		Verify that the HSC/ICC has supplied a valid OBSID value:		
		OBS_ID = 0xnnnn nnnn		
		Verify that the ICC has supplied valid parameter values:		
		BANDMASK = 3FFF <hex> [def]		
		DELTA_F = 12c <hex> [def]		
1.2		Verify: HIFI Mode		□
		Verify Telemetry	HL_MODE_S HM258194 = normal = standby1	AND=ZAZ9C999
2		Set procedure parameters		Next Step: 3
	ET=+00.00.00 UT=+00.00.00	HIFI_Set_OBS_ID	HIFI_Set_OBS_ID HC014289	
		Command Parameter(s) :		
		HIFI_BB_ID HP001197	1EF20001 <hex>	
		HIFI_OBS_ID HP000197	OBS_ID	
		TC Control Flags :		
			GBM IL DSE	
			--Y -- --	
		Subsch. ID : 70		
		Det. descr. : Set Observation-ID and Building-Block-ID		
		Verify Telemetry	BB_ID_per_hk HM004190 = 1EF20001 <hex>	AND=ZAZ9C999
		Verify Telemetry	OBS_ID_per_hk HM003190 OBS_ID	AND=ZAZ9C999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
3		Enable Local Oscillator		Next Step: 4
	ET=+00.00.00 UT=+00.00.00	HIFI_HL_Standby HIFI_HL_Standby Command Parameter(s) : HIFI_BB_ID HP001197 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 70 Det. descr. : Send single command to switch LCU to standby	HC081289 EB90001 <hex>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Conf_LCU_internal HIFI_Conf_LCU_internal Command Parameter(s) : HIFI_BB_ID HP001197 HL_bandmask HP444194 HL_ign_lsu_ftm HP445194 HL_ign_lsu_lck HP446194 HL_LSU_delta_f HP443194 Subsch. ID : 70 Det. descr. : Commands Internal parameters (bandmask, ign-flags delta_f)	HC034289 EB90001 <hex> BANDMASK RESET (Def) RESET (Def) DELTA_F	
4		Set default OBSID/BBID		Next Step: END
	ET=+00.00.01 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 -- --- Subsch. ID : 70 Det. descr. : Set Observation-ID and Building-Block-ID	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
End of Procedure				