

HIFI IF Chain Functional Tests  
 File: H\_COP\_HIF\_IFFT.xls  
 Author: R. Biggins



**Procedure Summary**

**Objectives**

This is a high-level procedure covering the following activity as defined in the HIFI Commissioning Plan:  
 HIFI-COP-1.2-IF\_FT

**Summary of Constraints**

RT Science (VC1) is required for this activity  
 The activity H\_COP\_HIF\_HRFT must have been completed

**Spacecraft Configuration**

**Start of Procedure**

RT Science (VC1) is enabled

**End of Procedure**

RT Science (VC1) is disabled

**Reference File(s)**

Input Command Sequences

Output Command Sequences

**Referenced Displays**

ANDs      GRDs      SLDs  
 ZAZ9T999

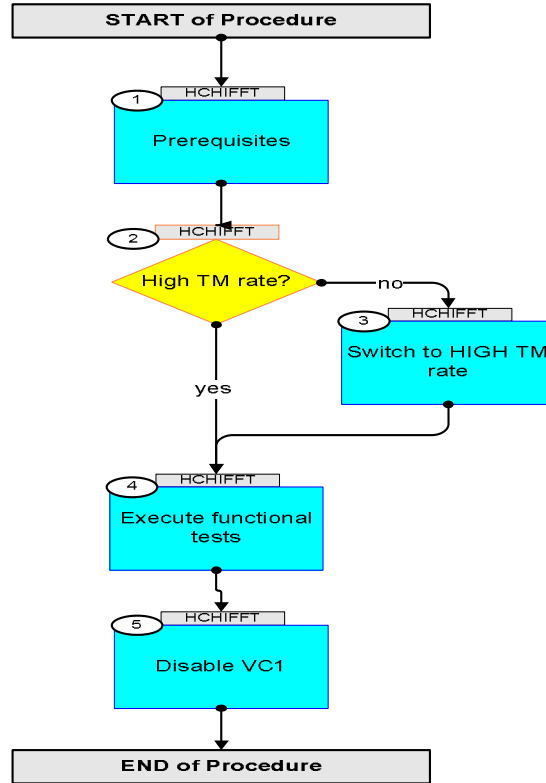
**Configuration Control Information**

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
09/04/09	2.3	1	Created	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 : HCHIFFT (IF Chain Tests)				
TimeTag Type: Sub Schedule ID:  <input type="checkbox"/>				
1		Prerequisites		Next Step: 2
		Verify: The activity H_COP_HIF_HRFT has been completed		
1.1		Verify HSC/ICC inputs		<input type="checkbox"/>
		Verify that the following inputs have been supplied by the HCS/ICC:		
		FP: <b>OBS_ID</b> (7 required) <b>HWH_LZR1</b> [= OFF] <b>HWH_LZR2</b> [= ON] <b>HWV_LZR1</b> [= OFF] <b>HWV_LZR2</b> [= ON]		
2		High TM rate?		Next Step: no 3 yes 4
		Verify Telemetry  <b>TME_BITRATE</b> <b>DEMRF160</b> = 1.5 Mbps		AND=ZAZ9T999
3		Switch to HIGH TM rate		Next Step: 4
		Co-ordinate with the TTC SOE to execute the following procedure		
		PROCEDURE: <b>H_FCP_TTC_TUHR</b>		
4		Execute functional tests		Next Step: 5
		Please execute the following procedures and in the defined order.  Duration ~25 minutes		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		PROCEDURE: <b>H_COP_HIF_NIF1</b> [HCHNIF1]  FP: OBS_ID HWH_LZR1 [= OFF] HWH_LZR2 [= ON] HWV_LZR1 [= OFF] HWV_LZR2 [= ON]		
		PROCEDURE: <b>H_COP_HIF_NIF2</b> [HCHNIF2]  FP: OBS_ID HWH_LZR1 [= OFF] HWH_LZR2 [= ON] HWV_LZR1 [= OFF] HWV_LZR2 [= ON]		
		PROCEDURE: <b>H_COP_HIF_NIF3</b> [HCHNIF3]  FP: OBS_ID HWH_LZR1 [= OFF] HWH_LZR2 [= ON] HWV_LZR1 [= OFF] HWV_LZR2 [= ON]		
		PROCEDURE: <b>H_COP_HIF_NIF4</b> [HCHNIF4]  FP: OBS_ID HWH_LZR1 [= OFF] HWH_LZR2 [= ON] HWV_LZR1 [= OFF] HWV_LZR2 [= ON]		
		PROCEDURE: <b>H_COP_HIF_NIF5</b> [HCHNIF5]  FP: OBS_ID HWH_LZR1 [= OFF] HWH_LZR2 [= ON] HWV_LZR1 [= OFF] HWV_LZR2 [= ON]		
		PROCEDURE: <b>H_COP_HIF_NIF6</b> [HCHNIF6]  FP: OBS_ID HWH_LZR1 [= OFF] HWH_LZR2 [= ON] HWV_LZR1 [= OFF] HWV_LZR2 [= ON]		
		PROCEDURE: <b>H_COP_HIF_NIF7</b> [HCHNIF7]  FP: OBS_ID HWH_LZR1 [= OFF] HWH_LZR2 [= ON] HWV_LZR1 [= OFF] HWV_LZR2 [= ON]		
5		<i>Disable VC1</i>		Next Step: END
		Co-ordinate with the CDMS SOE to execute the following procedure		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		PROCEDURE: H_FCP_DHS_1013 [disable VC1]		
<b>End of Procedure</b>				