

Chopper Health Check Test #1
 File: H_FCP_HIF_RHCl.xls
 Author: R. Biggins



Procedure Summary

Objectives

The objective of this procedure is to perform part one of HIFI internal chopper health check (open loop).

Based on procedure:
 HIFI_Chopper_openloop_set_health_check_Redundant (v1)

Summary of Constraints

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

HFHRHCl

Referenced Displays

ANDs **GRDs** **SLDs**
 ZAZ9E999

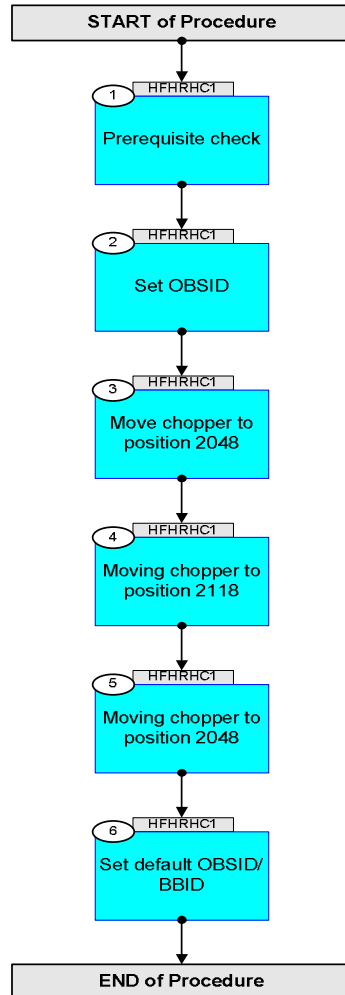
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
05/06/08	1	1	Created	R. Biggins	
04/11/08		1.01	Validation : Updates due to comments from D. Teyssier - TM parameter HF_APR_CH_ROT values updated in steps 3,4 and 5	R. Biggins	
24/11/08	2	1.02	Validation : Updates due to updates from D. Teyssier - BBID checks removed from steps 3-5 - TM value updated in step 5 for parameter HF_APR_CH_ROT	R. Biggins	
25/02/09	2.1	1.03	Validation : Updates due to SVT-2/SOVT-2 testing - Summary updated	R. Biggins	
25/11/09	3	2	Updates due to Prime unit failure resulting in new operation scheme - Updated to reflect new mode name	R. Biggins	

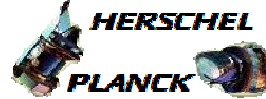
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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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=ZAZ9E999
		Verify Telemetry OBS_ID_per_hk HM003190	OBS_ID	AND=ZAZ9E999
3		Move chopper to position 2048		Next Step: 4
	ET= UT=+00.00.01	Execute Telecommand HIFI_R_Chopper_Rot Command Parameter(s) : HIFI_BB_ID HP001197 HF_R_Chopper_Rot HP455191 SSID : 70	HC185289 1E0D0001 <hex> -0.002 V	
		Verify: Following value is 2048 (dec) HF_DPR_CH_ROT2 HM196191	= -0.002 V	AND=ZAZ9E999
		Note down the value of the following parameter as the TM check in the next step is based on the decrease in value		
		Verify: Following value is correct to +/- 0.2V HF_APR_CH_ROT HM222191	= -2.315 V	AND=ZAZ9E999
4		Moving chopper to position 2118		Next Step: 5
	ET= UT=+00.00.02	Execute Telecommand HIFI_R_Chopper_Rot Command Parameter(s) : HIFI_BB_ID HP001197 HF_R_Chopper_Rot HP455191 SSID : 70	HC185289 1E0D0002 <hex> -0.344 V	
		Verify: Following value is 2118 (dec) HF_DPR_CH_ROT2 HM196191	= -0.344 V	AND=ZAZ9E999
		Verify: Value has decreased by 1.555V (+/- 0.08V) HF_APR_CH_ROT HM222191	= -3.87 V	AND=ZAZ9E999
5		Moving chopper to position 2048		Next Step: 6

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET= UT=+00.00.02	Execute Telecommand HIFI_R_Chopper_Rot Command Parameter(s) : HIFI_BB_ID HP001197 HF_R_Chopper_Rot HP455191 SSID : 70	HC185289 1E0D0003 <hex> -0.002 V	
		Verify: Following value is 2048 (dec) HF_DPR_CH_ROT2 HM196191	= -0.002 V	AND=ZAZ9E999
		Verify: Value has returned to original (+/- 0.04V) HF_APR_CH_ROT HM222191	= -2.315 V	AND=ZAZ9E999
6		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=ZAZ9E999
		Verify Telemetry OBS_ID_per_hk HM003190	= 0 <hex>	AND=ZAZ9E999
End of Procedure				