Spectrometer Cold Functional Tests
File: H_COP_SPI_CFT4.xls
Author: L.Lucas-hp

Procedure Summary

Objectives

The objective of this procedure is to stipulate which procedures are require for the Spectrometer Functional Tests.

Summary of Constraints

The saved stack files should have been generated prior to the DTCP and sent to the HSC/ICC as defined in the procedure H_GSP_MCS_MSTK.

5 OBS_ID values are required from the HSC.

Spacecraft Configuration

Start of Procedure
> n/a

End of Procedure
> n/a

Reference File(s)

Input Command Sequences

Output Command Sequences

Referenced Displays
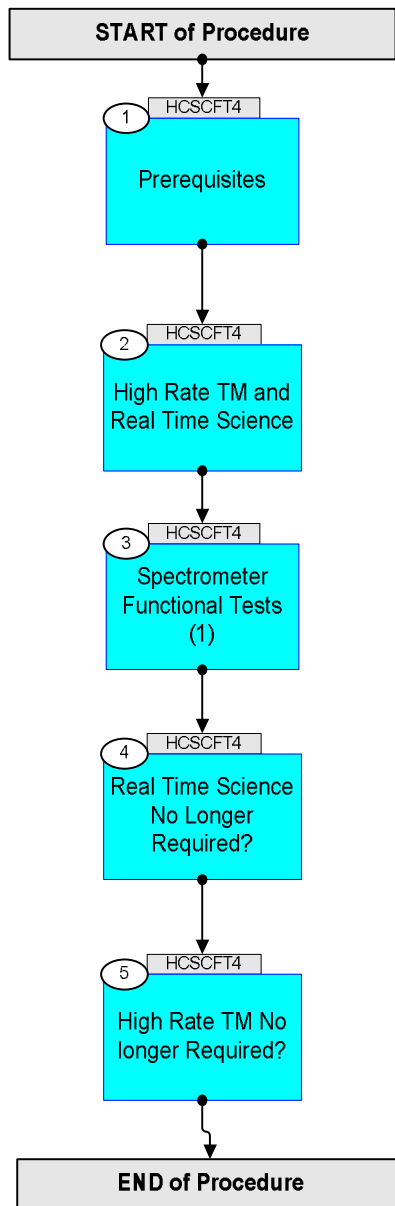
ANDs   GRDs   SLDs
ZAZ7J999

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
27/02/09	2.1	1	Created	L.Lucas-hp	
21/04/09		1.01	Validation : Updated to reflect new breakdown of COP procedures. SMEC tests will be in two parts, SLW alone in this CFT.	L.Lucas-hp	
21/04/09	2.3	1.02	Validation : TExt update	L.Lucas-hp	

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Procedure Flowchart Overview

START of Procedure

```
1   HCSCFT4

    Prerequisites


2   HCSCFT4

    High Rate TM and
    Real Time Science


3   HCSCFT4

    Spectrometer
    Functional Tests
    (1)


4   HCSCFT4

    Real Time Science
    No Longer
    Required?


5   HCSCFT4

    High Rate TM No
    longer Required?
```

END of Procedure

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HERSCHEL PLANCK   **esa**

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Beginning of Procedure		
		TC Seq. Name :HCSCFT4 (Spec CFT 1) *TimeTag Type:* *Sub Schedule ID:*		
1		*Prerequisites*		Next Step: 2
		The following test consists of one activity. An activity is represented by one saved stack file to be generated prior to the DTCP. Each stack should allso be delivered to the HSC/ICC using the procedure defined in **H_GSP_MCS_MSTK**		
		NOTE: Naming Convention for saved stack file: **yyyymmdd_nnnn_H_SAVED_xxvv** yyyy = Year *[of expected uplink]* mm = Month *[of expected uplink]* dd = Day *[of expected uplink]* nnnn = OD *[of expected uplink]* xx = TSF number (defined in each activity) vv = version number		
		Note: The five procedures defined below should be brought together into the TBC saved stack file prior to the DTCP: **yyyymmdd_nnnn_H_SAVED_xxvv** This file is then called up and executed on the manual stack during the DTCP.		
1.1		*Verify HSC/ICC inputs*		
		Prerequisites, verify: **DPU s/w version/subversion** **SPU s/w version/subversion** FP: OBS_ID (quantity 5)		
2		*High Rate TM and Real Time Science*		Next Step: 3
		Note: Both high rate TM and Real Time Science are required for this test.		
2.1		*Verify High Rate TM is Available.*		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		High Rate TM is required.		
		Verify High Bit Rate **TME_BITRATE** DEMRF160	**= 1.5 Mbps**	AND=ZAZ7J999
		If High Rate is not available, consult with SOM. Upon confirmation from SOM, run the following procedure to enable High Rate TM. PROCEDURE: **H_FCP_TTC_TUHR** [HFTTUHR]		
2.2		*Verify Real Time Science is Available.*		
		Real Time Science data is required. Check the NCTRS for VC1.		
		If VC1 is not available, consult with SOM. Upon confirmation from SOM, run the following procedure to enable RTS. PROCEDURE: **H_FCP_DHS_1013A** [HFD1013A]		
3		*Spectrometer Functional Tests (1)*		Next Step: 4
		Note: The five procedures defined below should be brought together into the TBC saved stack file prior to the DTCP: **yyyymmdd_nnnn_H_SAVED_xxvv** This file is then called up and executed on the manual stack during the DTCP.		
3.1		*Activity procedures*		
		Run the following five, 5 procedures.		
3.1.1		*Spectrometer SLW BDAs Switch ON Check*		
		PROCEDURE: **H_COP_SPI_SLWN** [HCSSLWN] FP: **OBS_ID**		
3.1.2		*Spectrometer SLW BDAs Integrity Check*		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		PROCEDURE: **H_COP_SPI_SLWC** **[HCSSLWC]** FP: **OBS_ID**		
3.1.3		*Spectrometer SLW BDAs Noise Check*		
		PROCEDURE: **H_COP_SPI_SLWL** **[HCSSLWL]** FP: **OBS_ID**		
3.1.4		*Spectrometer SLW BDAs Vss Test*		
		PROCEDURE: **H_COP_SPI_SLWV** **[HCSSLWV]** FP: **OBS_ID**		
3.1.5		*Spectrometer BDAs Switch OFF PRIME (Mode Transistion)*		
		PROCEDURE: **H_COP_SPI_MSPF** **[HCSMSPF]** FP: **OBS_ID**		
4		*Real Time Science No Longer Required?*		Next Step: 5
		Real Time Science data is no longer required for this test for SPIRE.		
4.1		*Verify Real Time Science is Still Required*		
		Verify if RTS is still required (generally). Consult with SOM. If it is still required, do nothing.		
		If REal Time Science is not still required. Upon confirmation from SOM, if RTS is no longer required generally and should be disabled, run the following procedure to disable RTS. PROCEDURE: **H_FCP_DHS_1013B** **[HFD1013B]**		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
5		*High Rate TM No longer Required?*		Next Step: END
5.1		*Verify High Rate TM is Still Required.*		
		Verify if High Rate TM is still required (generally). Consult with SOM. If it is still required, do nothing.		
		If High Rate is not still required. Upon confirmation from SOM, run the following procedure to changefrom High Rate to medium rate TM. PROCEDURE: **H_FCP_TTC_TUMR [HFTTUMR]**		

End of Procedure	