

SPIRE CFT Checks Characterisation  
 File: H\_COP\_SPI\_CFT1.xls  
 Author: L.Lucas-hp



## Procedure Summary

### Objectives

The objective of this procedure is to stipulate all the procedures required for the CFT Checks and Characterisation.

### 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.

Eight 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

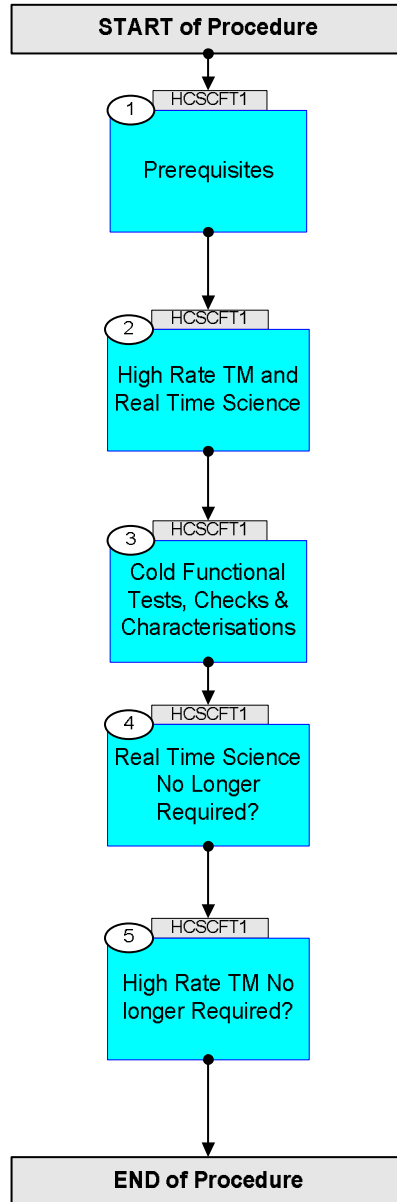
ANDs      GRDs      SLDs

### 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	2.3	1.01	Validation : Updated to sue Mode transistion procedure MMCB	L.Lucas-hp	



## Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>Beginning of Procedure</b>				
<p><i>TC Seq. Name : HCSCT1 (CFT Checks Character)</i></p> <p><i>TimeTag Type:</i>  <i>Sub Schedule ID:</i></p> <p style="text-align: center;">□</p>				
1		Prerequisites		Next Step: 2
		<p>The following test consists of one activity. Each activity is represented by one saved stack file which should be generated prior to the DTCP.</p> <p>Each stack should also be delivered to the HSC/ICC using the procedure defined in <b>H_GSP_MCS_MSTK</b></p>		
		<p><b>NOTE:</b>            Naming Convention for saved stack file:</p> <p><b>yyyymmdd_nnnn_H_SAVED_xxvv</b></p> <p>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</p>		
		<p><b>Note:</b>            The eight procedures defined below should be brought together into the TBC saved stack file prior to the DTCP:</p> <p><b>yyyymmdd_nnnn_H_SAVED_xxvv</b></p> <p>This file is then called up and executed on the manual stack during the DTCP.</p>		
1.1		Verify HSC/ICC Inputs		□
		<p>Prerequisites, verify:  <b>DPU s/w version/subversion</b>  <b>SPU s/w version/subversion</b></p> <p>FP:            OBS_ID (quantity 8)</p>		
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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		High Rate TM is required.		
		If High Rate is not available, consult with SOM. Upon confirmation from SOM, run the following procedure to enable High Rate TM. PROCEDURE: <b>H_FCP_TTC_TUHR</b> [HFTTUHR]		
2.2		Verify Real Time Science is Available.		<input type="checkbox"/>
		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: <b>H_FCP_DHS_1013A</b> [HFD1013A]		
3		Cold Functional Tests, Checks & Characterisations		Next Step: 4
		<b>Note:</b> The eight procedures defined below should be brought together into the TBC saved stack file prior to the DTCP:  <b>yyyymmdd_nnnn_H_SAVED_xxvv</b>  This file is then called up and executed on the manual stack during the DTCP.		
3.1		Activity procedures		<input type="checkbox"/>
		Run the following eight, 8 SPIRE procedures.		
3.1.1		SCU Nominal Science Contents Check (PRIME)		<input type="checkbox"/>
		PROCEDURE: <b>H_COP_SPI_SCSC</b> [HCSSCSC]  FP: OBS_ID		
3.1.2		SCU DC Thermometry check PRIME		<input type="checkbox"/>
		PROCEDURE: <b>H_COP_SPI_SCDT</b> [HCSSCDT]  FP: OBS_ID		

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3.1.3		<i>SCU AC Thermometry Check PRIME</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_SCAT [HCSSCAT]  FP: OBS_ID		
3.1.4		<i>Sorption Cooler Heaters Check</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_SOHC [HCSSOHC]  FP: OBS_ID		
3.1.5		<i>PCAL Characterisation Test PRIME</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_PCAC [HCSPCAC]  FP: OBS_ID		
3.1.6		<i>SCAL Characterisation Test PRIME</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_SCAC [HCSSCAC]  FP: OBS_ID		
3.1.7		<i>MCU Boot Check PRIME</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_MMCB [HCMMCB]  FP: OBS_ID		
3.1.8		<i>MCU Nominal Science Contents check PRIME</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_MCSC [HCSCSC]  FP: OBS_ID		
4		<i>Real Time Science No Longer Required?</i>		Next Step: 5

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Real Time Science data is no longer required for this test for SPIRE.		
4.1		<i>Verify Real Time Science is Still Required</i>		<input type="checkbox"/>
		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]		
5		<i>High Rate TM No longer Required?</i>		Next Step: END
5.1		<i>Verify High Rate TM is Still Required.</i>		<input type="checkbox"/>
		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 change from High Rate to medium rate TM.  PROCEDURE: H_FCP_TTC_TUMR      [HFTTUMR]		
<b>End of Procedure</b>				