

Beam Steering Mechanism Cold Functional Tests
 File: H_COP_SPI_CFT2.xls
 Author: L.Lucas-hp



Procedure Summary

Objectives

The objective of this procedure is to stipulate which procedures are required for the BSM CFT 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.

7 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

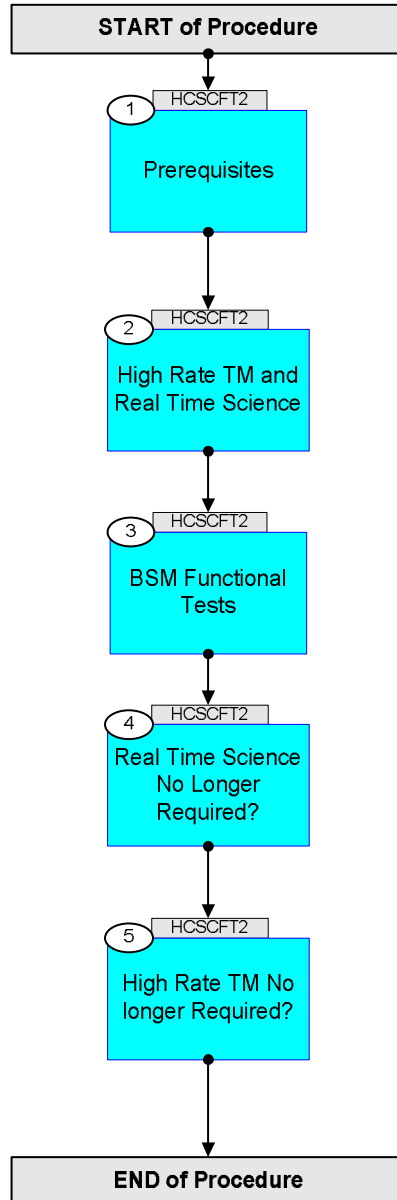
ANDs GRDs SLDs

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
27/02/09	2.1	1	Created	L.Lucas-hp	
20/04/09	2.3	2	Addition of HR TM procedure, Rewording of VC1 steps	L.Lucas-hp	



Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
<p><i>TC Seq. Name : HCSCFT2 (BSM CFT)</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. An activity is represented by one saved stack file to be generated prior to the DTCP.</p> <p>Each stack should also be delivered to the HSC/ICC using the procedure defined in H_GSP_MCS_MSTK</p>		
		<p>NOTE: Naming Convention for saved stack file:</p> <p>yyyymmdd_nnnn_H_SAVED_xxvv</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>Note: The eight procedures defined below should be brought together into the TBC saved stack file prior to the DTCP:</p> <p>yyyymmdd_nnnn_H_SAVED_xxvv</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: DPU s/w version/subversion SPU s/w version/subversion</p> <p>FP: OBS_ID (quantity 7)</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: H_FCP_TTC_TUHR [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: H_FCP_DHS_1013A [HFD1013A]		
3		<i>BSM Functional Tests</i>		Next Step: 4
		Note: The eight 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		<i>Activity procedures</i>		<input type="checkbox"/>
		Run the following seven, 7 procedures.		
3.1.1		<i>BSM Chop/Jiggle Sensors Check PRIME</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_BSSC [HCSBSSC] FP: OBS_ID		
3.1.2		<i>BSM Open Loop Dynamics Check PRIME</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_BS03 [HCSBS03] FP: OBS_ID		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
3.1.3		<i>BSM Open Loop Chop Test PRIME</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_BS5A [HCSBS5A] FP: OBS_ID		
3.1.4		<i>BSM Initialisation Test PRIME</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_BSMI [HCSBSMI] FP: OBS_ID		
3.1.5		<i>BSM Close Loop Chop Test</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_BS5B [HCSBS5B] FP: OBS_ID		
3.1.6		<i>BSM Close Loop Operational Mode Chop Test PRIME</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_BS06 [HCSBS06] FP: OBS_ID		
3.1.7		<i>BSM Switch OFF PRIME</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_BSMF [HCSBSMF] FP: OBS_ID		
4		<i>Real Time Science No Longer Required?</i>		Next Step: 5
		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"/>

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		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]		
End of Procedure				