

SMEC Functional Tests, Part B.
 File: H_COP_SPI_CFT6.xls
 Author: L.Lucas-hp



Procedure Summary

Objectives

The objective of this procedure is to stipulate which procedures are required for the SMEC Part B 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.

4 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

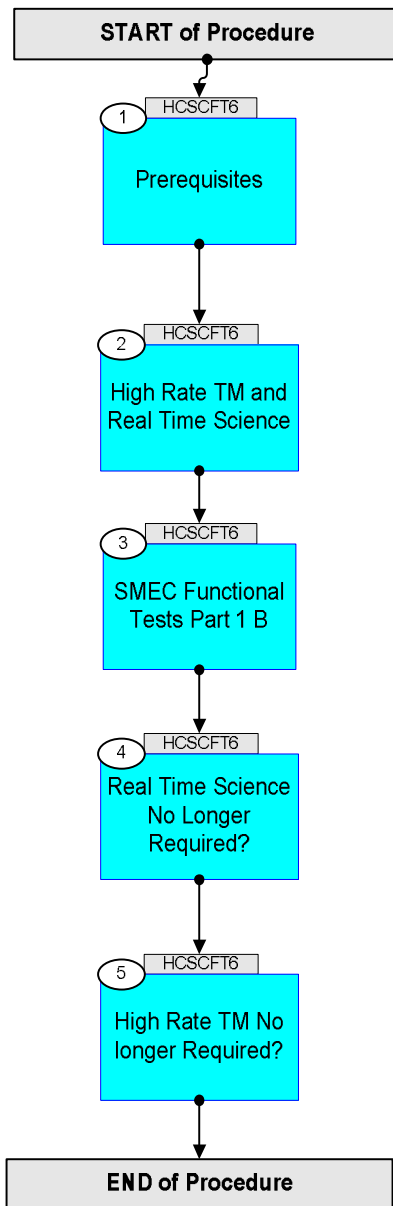
ANDs GRDs SLDs

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	Included High Rate TM commanding	L.Lucas-hp	
21/04/09	2.3	2.01	Validation : Update to include Mode transision proccedures and reflect new composition of CFT	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 : HCSCT6 (SMEC Func Part B)</i></p> <p><i>TimeTag Type:</i> <i>Sub Schedule ID:</i></p> <p style="text-align: center;">□</p>				
1		<p><i>Prerequisites</i></p> <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 four procedures defined below should be brought together into the following 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>		<p>Next Step: 2</p>
2		<p><i>High Rate TM and Real Time Science</i></p> <p>Note: Both high rate TM and Real Time Science are required for this test.</p>		<p>Next Step: 3</p>
2.1		<p><i>Verify High Rate TM is Available.</i></p> <p>High Rate TM is required.</p> <p>If High Rate is not available, consult with SOM. Upon confirmation from SOM, run the following procedure to enable High Rate TM.</p> <p>PROCEDURE: H_FCP_TTC_TUHR [HFTTUHR]</p>		□

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2.2		Verify Real Time Science is Available.		<input type="checkbox"/>
		Real Time Science data is required. Check the NCTRS for VCl.		
		If VCl is not available, consult with SOM. Upon confirmation from SOM, run the following procedure to enable RTS. PROCEDURE: H_FCP_DHS_1013A [HFD1013A]		
3		SMEC Functional Tests Part 1 B		Next Step: 4
		Note: The four procedures defined below should be brought together into the following saved stack file prior to the DTCP: yyyyymmdd_nnnn_H_SAVED_xxvv This file is then called up and executed on the manual stack during the DTCP.		
3.1		Verify HSC/ICC inputs		<input type="checkbox"/>
		Prerequisites, verify: DPU s/w version/subversion SPU s/w version/subversion FP: OBS_ID (quantity 4)		
3.2		Activity procedures		<input type="checkbox"/>
		Run the following four, 4 procedures.		
3.2.1		SMEC LVDT BackUp Mode Test (Prime)		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_LBMP [HCSLBMP] FP: OBS_ID		
3.2.2		Initialise SMEC in LVDT Mode (Prime)		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_LINP [HCSLINP] FP: OBS_ID		

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3.2.3		<i>SMEC LVDT Close Loop Scan Check (Prime)</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_LCLS [HCSLCLS] FP: OBS_ID		
3.2.4		<i>Switch SMEC OFF</i>		<input type="checkbox"/>
		PROCEDURE: H_COP_SPI_MSMF [HCSMSMF] 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"/>
		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.		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<p>If High Rate is not still required.</p> <p>Upon confirmation from SOM, run the following procedure to change from High Rate to medium rate TM.</p> <p>PROCEDURE: H_FCP_TTC_TUMR [HFTTUMR]</p>		
End of Procedure				