SMEC Functional Tests, part 2A.
File: H_COP_SPI_CF10.xls
Author: L.Lucas-hp

Procedure Summary

Objectives

The objective of this procedure is to stipulate which procedures are required for the SMEC Functional tests, part 2A.

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**
ZAZ7J999

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
20/04/09	2.3	1	Created	L.Lucas-hp	
04/05/09	2.4	1.01	Validation : Title Update	L.Lucas-hp	

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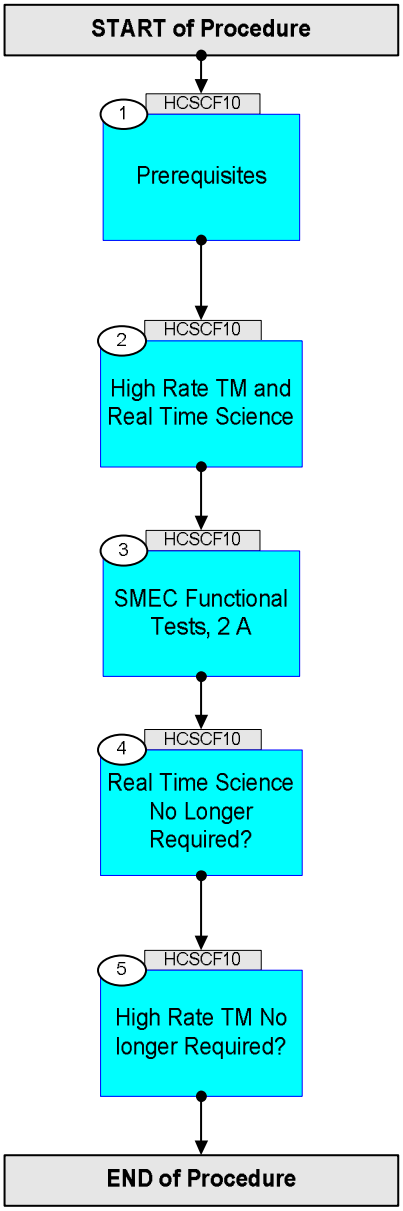
Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Beginning of Procedure		
		TC Seq. Name :HCSCF10 (SMEC Func 2A) *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 procedures defined below should be brought together into the following 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 4)		
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.*		

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		*SMEC Functional Tests, 2 A*		Next Step: 4
		Note: The procedures defined below should be brought together into the following 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 four, 4 procedures.		
3.1.1		*SMEC Encoder and LVDT Check PRIME*		□
		PROCEDURE: **H_COP_SPI_SMLP [HCSSMLP]** FP: **OBS_ID**		
3.1.2		*SMEC Encoder levels Check PRIME*		□

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		PROCEDURE: **H_COP_SPI_SMEP [HCSSMEP]** FP: **OBS_ID**		
3.1.3		*SMEC Open Loop Position Check PRIME*		□
		PROCEDURE: **H_COP_SPI_SMPP [HCSSMPP]** FP: **OBS_ID**		
3.1.4		*SMEC Open Loop Scan Check PRIME*		□
		PROCEDURE: **H_COP_SPI_SMOS [HCSSMOS]** 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]**		
5		*High Rate TM No longer Required?*		Next Step: END
5.1		*Verify High Rate TM is Still Required.*		□

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		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		