Photometer Functional Tests
File: H_COP_SPI_CFT3.xls
Author: L.Lucas-hp

Procedure Summary

Objectives

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

6 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	Updated to include High Rate TM commanding	L.Lucas-hp	

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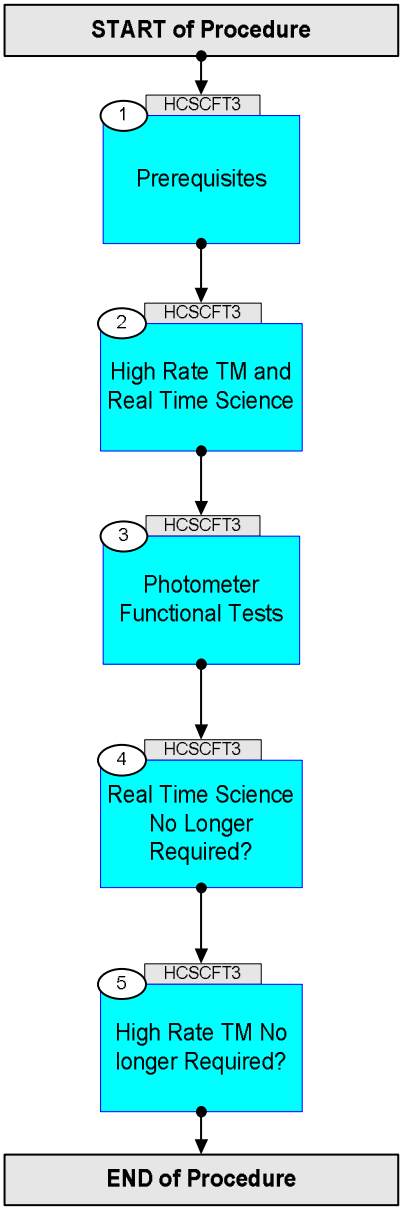
Procedure Flowchart Overview



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Beginning of Procedure		
		TC Seq. Name :HCSCFT3 (Photometer Func test) *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 six 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 6)		
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.		
		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		*Photometer Functional Tests*		Next Step: 4
		Note: The six 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 six, 6 procedures.		
3.1.1		*DCU Nominal Science Contents Check*		□
		PROCEDURE: **H_COP_SPI_DCSC [HCSDCSC]** FP: **OBS_ID**		
3.1.2		*Photometer BDAs Switch On Check PRIME*		□
		PROCEDURE: **H_COP_SPI_DCPN [HCSDCPN]** FP: **OBS_ID**		

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
3.1.3		*Photometer BDAs Integrity Check PRIME*		□
		PROCEDURE: **H_COP_SPI_DPIC [HCSDPIC]** FP: **OBS_ID**		
3.1.4		*Photometer BDAs Noise Check PRIME*		□
		PROCEDURE: **H_COP_SPI_DPNC [HCSDPNC]** FP: **OBS_ID**		
3.1.5		*Photometer BDAs Vss Test PRIME*		□
		PROCEDURE: **H_COP_SPI_PHVT [HCSPHVT]** FP: **OBS_ID**		
3.1.6		*Photometer BDAs Switch Offt PRIME*		□
		PROCEDURE: **H_COP_SPI_PHOF [HCSPHOF]** 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				