PACS Short Functional Test - HeII
File: H_COP_PAC_SFT.xls
Author: R. Biggins

Procedure Summary

Objectives

This is a high-level procedure covering the SFT activity defined in the Commissioning Plan.

The objective of this procedure is to execute the short functional test for the PACS prime units.

Summary of Constraints

RT Science (VC1) is required for this activity

Spacecraft Configuration

Start of Procedure

PACS is ON and in SAFE Mode

End of Procedure

PACS is ON and in SAFE Mode

Reference File(s)

Input Command Sequences

Output Command Sequences

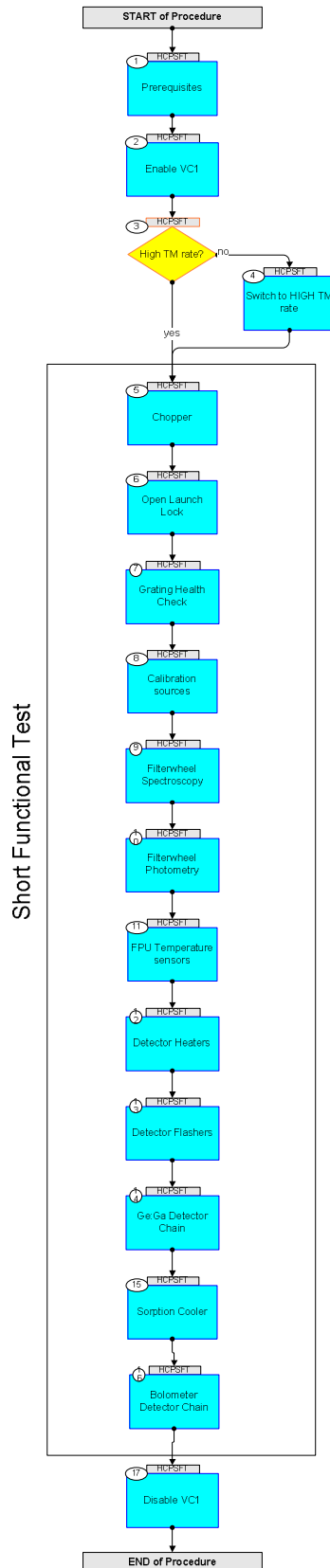## Referenced Displays

ANDs	GRDs	SLDs
ZAZ9T999		

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
09/04/09		1	Created	R. Biggins	
09/04/09	2.3	1.01	Validation : Sequence name updated	R. Biggins	

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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 :HCPSFT (PACS SFT) *TimeTag Type:* *Sub Schedule ID:*		
1		*Prerequisites*		Next Step: 2
1.1		*Verify HSC/ICC inputs*		
		Verify: The following inputs have been supplied by the HSC/ICC		
		FP: **OBS_ID** (23 required)		
2		*Enable VC1*		Next Step: 3
		Co-ordinate with the CDMS SOE to execute the following procedure		
		PROCEDURE: **H_FCP_DHS_1013** *[enable VC1]*		
3		*High TM rate?*		Next Step: no 4 yes 5
		Verify Telemetry **TME_BITRATE** **DEMRF160**	**= 1.5 Mbps**	AND=ZAZ9T999
4		*Switch to HIGH TM rate*		Next Step: 5
		Co-ordinate with the TTC SOE to execute the following procedure		
		PROCEDURE: **H_FCP_TTC_TUHR**		
5		*Chopper*		Next Step: 6
		SPACON: The procedures defined below should be exported into the following saved stack file prior to the DTCP: **yyyymmdd_nnnn_H_SAVED_01vv** This file is then called up and executed on the manual stack during the DTCP		

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		PROCEDURE: **H_COP_PAC_X001** [HCPX001] FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_X002** [HCPX002] FP: OBS_ID		
6		*Open Launch Lock*		Next Step: 7
		SPACON: The procedures defined below should be exported into the following saved stack file prior to the DTCP: **yyyymmdd_nnnn_H_SAVED_02vv** This file is then called up and executed on the manual stack during the DTCP		
		PROCEDURE: **H_COP_PAC_LLOP** [HCPLLOP] FP: OBS_ID		
7		*Grating Health Check*		Next Step: 8
		SPACON: The procedures defined below should be exported into the following saved stack file prior to the DTCP: **yyyymmdd_nnnn_H_SAVED_03vv** This file is then called up and executed on the manual stack during the DTCP		
		PROCEDURE: **H_COP_PAC_X003** [HCPX003] FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_G001** [HCPG001] FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_G002** [HCPG002] FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_G003** [HCPG003] FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_X004** [HCPX004] FP: OBS_ID		
8		*Calibration sources*		Next Step: 9

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		SPACON: The procedures defined below should be exported into the following saved stack file prior to the DTCP: **yyyymmdd_nnnn_H_SAVED_04vv** This file is then called up and executed on the manual stack during the DTCP		
		PROCEDURE: **H_COP_PAC_X003** **[HCPX003]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_L001** **[HCPL001]** FP: OBS_ID		
9		*Filterwheel Spectroscopy*		Next Step: 10
		SPACON: The procedures defined below should be exported into the following saved stack file prior to the DTCP: **yyyymmdd_nnnn_H_SAVED_05vv** This file is then called up and executed on the manual stack during the DTCP		
		PROCEDURE: **H_COP_PAC_X003** **[HCPX003]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_F001** **[HCPF001]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_F002** **[HCPF002]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_F003** **[HCPF003]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_X004** **[HCPX004]** FP: OBS_ID		
10		*Filterwheel Photometry*		Next Step: 11
		SPACON: The procedures defined below should be exported into the following saved stack file prior to the DTCP: **yyyymmdd_nnnn_H_SAVED_06vv** This file is then called up and executed on the manual stack during the DTCP		

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		PROCEDURE: **H_COP_PAC_F101** **[HCPF101]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_F102** **[HCPF102]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_F103** **[HCPF103]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_F104** **[HCPF104]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_X004** **[HCPX004]** FP: OBS_ID		
11		*FPU Temperature sensors*		Next Step: 12
		Verify with the ICC that the following ANDs indicate the expected values: **PA013420**: DMC Temperature **PA011410**: BOL Temperature		
12		*Detector Heaters*		Next Step: 13
		SPACON: The procedures defined below should be exported into the following saved stack file prior to the DTCP: **yyyymmdd_nnnn_H_SAVED_07vv** This file is then called up and executed on the manual stack during the DTCP		
		PROCEDURE: **H_COP_PAC_X003** **[HCPX003]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_X005** **[HCPX005]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D001** **[HCPD001]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D002** **[HCPD002]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D003** **[HCPD003]** FP: OBS_ID		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		PROCEDURE: **H_COP_PAC_X004** [HCPX004] FP: OBS_ID		
13		*Detector Flashers*		Next Step: 14
		SPACON: The procedures defined below should be exported into the following saved stack file prior to the DTCP: **yyyymmdd_nnnn_H_SAVED_08vv** This file is then called up and executed on the manual stack during the DTCP		
		PROCEDURE: **H_COP_PAC_X005** [HCPX005] FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D101** [HCPD101] FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D102** [HCPD102] FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D103** [HCPD103] FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_X004** [HCPX004] FP: OBS_ID		
14		*Ge:Ga Detector Chain*		Next Step: 15
		SPACON: The procedures defined below should be exported into the following saved stack file prior to the DTCP: **yyyymmdd_nnnn_H_SAVED_09vv** This file is then called up and executed on the manual stack during the DTCP		
		PROCEDURE: **H_FCP_PAC_CSBN** [HFPCSBN] FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_X006** [HCPX006] FP: OBS_ID		

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		SPACON: As there should be a 5 minute gap between the above/below procedures, a 5 minute delta time tag should be added to the first TC from the next procedure		
		PROCEDURE: **H_COP_PAC_X007 [HCPX007]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D201 [HCPD201]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_X006 [HCPX006]** FP: OBS_ID		
		SPACON: As there should be a 5 minute gap between the above/below procedures, a 5 minute delta time tag should be added to the first TC from the next procedure		
		PROCEDURE: **H_COP_PAC_X007 [HCPX007]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D202 [HCPD202]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_X006 [HCPX006]** FP: OBS_ID		
		SPACON: As there should be a 5 minute gap between the above/below procedures, a 5 minute delta time tag should be added to the first TC from the next procedure		
		PROCEDURE: **H_COP_PAC_X007 [HCPX007]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D203 [HCPD203]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_X006 [HCPX006]** FP: OBS_ID		
		SPACON: As there should be a 5 minute gap between the above/below procedures, a 5 minute delta time tag should be added to the first TC from the next procedure		
		PROCEDURE: **H_COP_PAC_X007 [HCPX007]** FP: OBS_ID		

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		PROCEDURE: **H_FCP_PAC_CSBF** **[HFPCSBF]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D204** **[HCPD204]** FP: OBS_ID		
15		*Sorption Cooler*		Next Step: 16
		SPACON: The procedures defined below should be exported into the following saved stack file prior to the DTCP: **yyyymmdd_nnnn_H_SAVED_0Avv** This file is then called up and executed on the manual stack during the DTCP		
		PROCEDURE: **H_COP_PAC_SX01** **[HCPSX01]** FP: OBS_ID		
16		*Bolometer Detector Chain*		Next Step: 17
		SPACON: The procedures defined below should be exported into the following saved stack file prior to the DTCP: **yyyymmdd_nnnn_H_SAVED_0Bvv** This file is then called up and executed on the manual stack during the DTCP		
		PROCEDURE: **H_COP_PAC_D301** **[HCPD301]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D302** **[HCPD302]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D303** **[HCPD303]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D304** **[HCPD304]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D305** **[HCPD305]** FP: OBS_ID		
		PROCEDURE: **H_COP_PAC_D306** **[HCPD306]** FP: OBS_ID		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		PROCEDURE: **H_COP_PAC_D307** [**HCPD307**] FP: OBS_ID		
17		*Disable VC1*		Next Step: END
		Co-ordinate with the CDMS SOE to execute the following procedure		
		PROCEDURE: **H_FCP_DHS_1013** *[disable VC1]*		

End of Procedure