PACS_Spec_Flash_SFT
File: H_COP_PAC_D102.xls
Author: R. Biggins

Procedure Summary

Objectives

The objective of this procedure is to execute a short functional test on the detector flashers by changing the input current.
- set the blue and red detector flasher current to 0.1mA
- set the blue and red detector flasher current to 0.0mA
- set the blue and red detector flasher current to 1.0mA
- set the blue and red detector flasher current to 0.0mA

Based on procedure:
PACS_Spec_Flash_SFT (v1)

Summary of Constraints

Procedure H_COP_PAC_D101 must have been successfully completed directly before the execution of this procedure

This procedure should be executed as part of the Short Functional Test (HeII conditions)
This procedure may also be executed on PACS request

RT Science must be enabled to receive the Diagnostic HK packets

Spacecraft Configuration

Start of Procedure

PACS in NO_PRIME (SAFE) mode
- PACS is generating Spectroscopy HK
- PACS is generating Diagnostic HK
- The flashers are switched ON

End of Procedure

PACS in NO_PRIME (SAFE) mode
- PACS is generating Spectroscopy HK
- PACS is generating Diagnostic HK
- The flashers are switched ON

Reference File(s)

Input Command Sequences

Output Command Sequences

HCPD102

Referenced Displays

ANDs	GRDs	SLDs
ZAZ98999		
PA021420		

Configuration Control Information

Status : Version 2 - Unchanged
Last Checkin: 14/11/08

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DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
14/08/08		1	Created	R. Biggins	
14/11/08	2	2	Updates due to initial testing - New step (1) added for prerequisite check - Initial OBSID value changed to FP	R. Biggins	
15/04/09	2.3	2.01	Validation : Final updates before flight - Summary updated - TC flags updated	R. Biggins	

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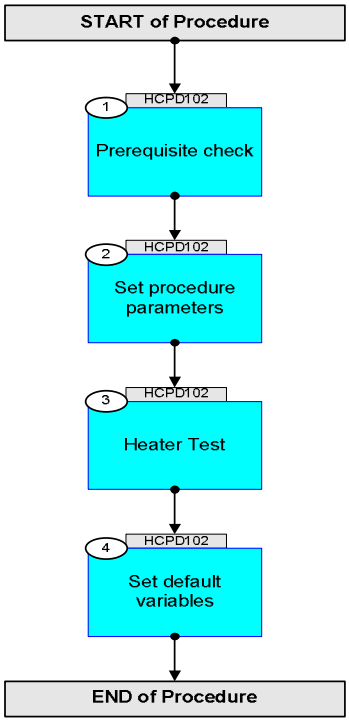
Procedure Flowchart Overview



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Beginning of Procedure		
		TC Seq. Name :HCPD102 (Flasher SFT) *TimeTag Type:* B *Sub Schedule ID:*		
1		*Prerequisite check*		Next Step: 2
1.1		*HSC/ICC input*		
		Verify that the HSC/ICC has supplied a valid OBSID value: **OBS_ID =** 0xnnnn nnnn		
2		*Set procedure parameters*		Next Step: 3
	ET=+00.00.00 UT=+00.00.00	DMC_SET_OBSID **DMC_SET_OBSID** *Command Parameter(s) :* **OBSERVATION_ID PP069420** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 90* Det. descr. : SET OBSID IN DMC	**PC078420** **OBS_ID**	
		Verify Telemetry **DM_OBSID PM028420**	**OBS_ID**	AND=ZAZ98999
3		*Heater Test*		Next Step: 4
		Verify Telemetry **DM_DECB_FLASH_C PM119420**	**= 0.0 mA**	AND=PA021420
		Verify Telemetry **DM_DECR_FLASH_C PM187420**	**= 0.0 mA**	AND=PA021420
		NOTE: The following tests should be executed with the defined time delay between each TC, therefore any TM checks should be done without additional delay.		
3.1		*Test 1*		
		The following TCs will set the blue and red detector flasher current to 0.1mA		

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	DMC_SET_BBID **DMC_SET_BBID** *Command Parameter(s) :* **BUILDING_BLOCK_ID PP070420** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 90* Det. descr. : SET BBID IN DMC	**PC079420** **40A60001 <hex>**	
	ET=+00.00.01 UT=+00.00.01	DMC_SET_B_SPEC_FLASH_C_RAW **DMC_SET_B_SPEC_FLASH_C** *Command Parameter(s) :* **CURRENT PP073420** *Subsch. ID : 90* Det. descr. : SET BLUE DEC FLASH CURRENT	**PC088420** **0.098 mA**	
	ET=+00.00.01 UT=+00.00.01	DMC_SET_R_SPEC_FLASH_C_RAW **DMC_SET_R_SPEC_FLASH_C** *Command Parameter(s) :* **CURRENT PP073420** *Subsch. ID : 90* Det. descr. : SET THE RED DEC FLASHER CURRENT	**PC105420** **0.098 mA**	
		Verify Telemetry **DM_BBID PM029420**	**= 40A60001 <hex>**	AND=ZAZ98999
		Verify Telemetry **DM_DECB_FLASH_C PM119420**	**= 0.1 mA**	AND=PA021420
		Verify Telemetry **DM_DECR_FLASH_C PM187420**	**= 0.1 mA**	AND=PA021420
3.2		*Test 2*		
		The following TCs will set the blue and red detector flasher current to 0.0mA		
	ET=+00.00.31 UT=+00.00.31	DMC_SET_BBID **DMC_SET_BBID** *Command Parameter(s) :* **BUILDING_BLOCK_ID PP070420** *Subsch. ID : 90* Det. descr. : SET BBID IN DMC	**PC079420** **40A60002 <hex>**	

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	DMC_SET_B_SPEC_FLASH_C_RAW **DMC_SET_B_SPEC_FLASH_C** *Command Parameter(s) :* **CURRENT PP073420** *Subsch. ID : 90* Det. descr. : SET BLUE DEC FLASH CURRENT	**PC088420** **0.000 mA**	
	ET=+00.00.01 UT=+00.00.01	DMC_SET_R_SPEC_FLASH_C_RAW **DMC_SET_R_SPEC_FLASH_C** *Command Parameter(s) :* **CURRENT PP073420** *Subsch. ID : 90* Det. descr. : SET THE RED DEC FLASHER CURRENT	**PC105420** **0.000 mA**	
		Verify Telemetry **DM_BBID PM029420**	**= 40A60002 <hex>**	AND=ZAZ98999
		Verify Telemetry **DM_DECB_FLASH_C PM119420**	**= 0.0 mA**	AND=PA021420
		Verify Telemetry **DM_DECR_FLASH_C PM187420**	**= 0.0 mA**	AND=PA021420
3.3		*Test 3*		
		The following TCs will set the blue and red detector flasher current to 1.0mA		
	ET=+00.00.31 UT=+00.00.31	DMC_SET_BBID **DMC_SET_BBID** *Command Parameter(s) :* **BUILDING_BLOCK_ID PP070420** *Subsch. ID : 90* Det. descr. : SET BBID IN DMC	**PC079420** **40A60003 <hex>**	
	ET=+00.00.01 UT=+00.00.01	DMC_SET_B_SPEC_FLASH_C_RAW **DMC_SET_B_SPEC_FLASH_C** *Command Parameter(s) :* **CURRENT PP073420** *Subsch. ID : 90* Det. descr. : SET BLUE DEC FLASH CURRENT	**PC088420** **1.001 mA**	
	ET=+00.00.01 UT=+00.00.01	DMC_SET_R_SPEC_FLASH_C_RAW **DMC_SET_R_SPEC_FLASH_C** *Command Parameter(s) :* **CURRENT PP073420** *Subsch. ID : 90* Det. descr. : SET THE RED DEC FLASHER CURRENT	**PC105420** **1.001 mA**	

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry **DM_BBID PM029420**	**= 40A60003 <hex>**	AND=ZAZ98999
		Verify Telemetry **DM_DECB_FLASH_C PM119420**	**= 1.0 mA**	AND=PA021420
		Verify Telemetry **DM_DECR_FLASH_C PM187420**	**= 1.0 mA**	AND=PA021420
3.4		*Test 4*		
		The following TCs will set the blue and red detector flasher current to 0.0mA		
	ET=+00.00.31 UT=+00.00.31	DMC_SET_BBID **DMC_SET_BBID** *Command Parameter(s) :* **BUILDING_BLOCK_ID PP070420** *Subsch. ID : 90* Det. descr. : SET BBID IN DMC	**PC079420** **40A60004 <hex>**	
	ET=+00.00.01 UT=+00.00.01	DMC_SET_B_SPEC_FLASH_C_RAW **DMC_SET_B_SPEC_FLASH_C** *Command Parameter(s) :* **CURRENT PP073420** *Subsch. ID : 90* Det. descr. : SET BLUE DEC FLASH CURRENT	**PC088420** **0.000 mA**	
	ET=+00.00.01 UT=+00.00.01	DMC_SET_R_SPEC_FLASH_C_RAW **DMC_SET_R_SPEC_FLASH_C** *Command Parameter(s) :* **CURRENT PP073420** *Subsch. ID : 90* Det. descr. : SET THE RED DEC FLASHER CURRENT	**PC105420** **0.000 mA**	
		Verify Telemetry **DM_BBID PM029420**	**= 40A60004 <hex>**	AND=ZAZ98999
		Verify Telemetry **DM_DECB_FLASH_C PM119420**	**= 0.0 mA**	AND=PA021420
		Verify Telemetry **DM_DECR_FLASH_C PM187420**	**= 0.0 mA**	AND=PA021420
4		*Set default variables*		Next Step: END

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	DMC_SET_OBSID **DMC_SET_OBSID** *Command Parameter(s) :* **OBSERVATION_ID** **PP069420** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 90* Det. descr. : SET OBSID IN DMC	**PC078420** **00000000 <hex>**	
	ET=+00.00.00 UT=+00.00.00	DMC_SET_BBID **DMC_SET_BBID** *Command Parameter(s) :* **BUILDING_BLOCK_ID** **PP070420** *Subsch. ID : 90* Det. descr. : SET BBID IN DMC	**PC079420** **40000000 <hex>**	
		Verify Telemetry **DM_OBSID** **PM028420**	**= 00000000 <hex>**	AND=ZAZ98999
		Verify Telemetry **DM_BBID** **PM029420**	**= 40000000 <hex>**	AND=ZAZ98999

End of Procedure