

PACS_Phot_Fil_Diaghk_Setup_OBS
 File: H_COP_PAC_F102.xls
 Author: R. Biggins



Procedure Summary

Objectives

The objective of this procedure is to enable the generation of Diagnostic Science TM packets [TM(21,3)] for the Filterwheel Spectroscopy tests.

Based on procedure:
 PACS_Phot_Fil_Diaghk_Setup_OBS (v1)

Summary of Constraints

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 Photometry HK

End of Procedure

PACS in NO_PRIME (SAFE) mode
 - PACS is generating Photometry HK
 - PACS is generating Diagnostic HK

Reference File(s)

Input Command Sequences

Output Command Sequences

HCPF102

Referenced Displays

ANDs GRDs SLDs
 ZAZ98999

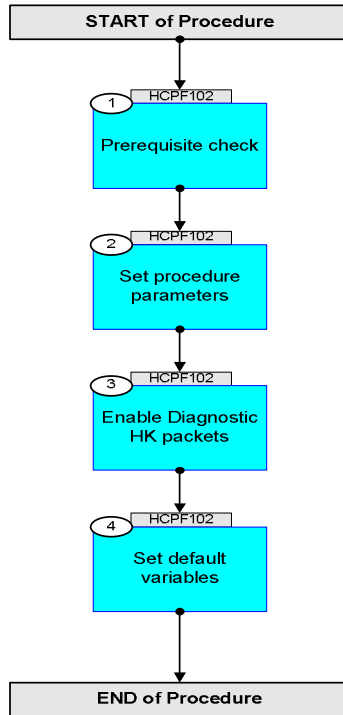
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
13/08/08		1	Created	R. Biggins	
13/11/08	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



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
TC Seq. Name :HCPF102 (Enable Diag HK)				
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 = 0xnxxx nxxx		
2		Set procedure parameters		Next Step: 3
	ET=+00.00.00 UT=+00.00.00	DMC_SET_OBSID Command Parameter(s) : OBSERVATION_ID PP069420 TC Control Flags : Subsch. ID : 90 Det. descr. : SET OBSID IN DMC GBM IL DSE --Y -- ---	DMC_SET_OBSID PC078420 OBS_ID	
		Verify Telemetry DM_OBSID PM028420	OBS_ID	AND=ZAZ98999
3		Enable Diagnostic HK packets		Next Step: 4
	ET=+00.00.01 UT=+00.00.01	DMC_WRT_DIAG_HK_LIST Command Parameter(s) : DMC_DATA_LENGTH PP065420 13 <dec> DMC_4_BYTES_WORDS_DATA PP067420 D3 <hex> DMC_4_BYTES_WORDS_DATA PP067420 100 <hex> DMC_4_BYTES_WORDS_DATA PP067420 101 <hex> DMC_4_BYTES_WORDS_DATA PP067420 104 <hex> DMC_4_BYTES_WORDS_DATA PP067420 196 <hex> DMC_4_BYTES_WORDS_DATA PP067420 233 <hex> DMC_4_BYTES_WORDS_DATA PP067420 239 <hex> DMC_4_BYTES_WORDS_DATA PP067420 194 <hex> DMC_4_BYTES_WORDS_DATA PP067420 230 <hex> DMC_4_BYTES_WORDS_DATA PP067420 237 <hex>	DMC_WRT_DIAG_HK_LIST PC160420	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 90 Det. descr. : WRITE THE LIST OF DIAGNOSTIC HK INTO DMC MEMORY	22C <hex> 234 <hex> FFFF <hex> 2D66 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_START_DIAG_HK DMC_START_DIAG_HK Command Parameter(s) : DIAG_HK_PERIOD PP076420 Subsch. ID : 90 Det. descr. : START THE ACQUISITION OF THE DIAGNOSTIC HK	PC146420 5 <dec>	
		NOTE: The verification of the generation of the TM(21,3) diagnostic packets [DIAGN_HK, APID 1158/1159) cannot be done on the MCS.		
4		Set default variables		Next Step: END
	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				