

PACS_Spec_Fil_Diaghk_Setup_OBS
 File: H_COP_PAC_F001.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_Spec_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

Spacecraft Configuration

Start of Procedure

PACS in NO_PRIME (SAFE) mode
 - producing Spectroscopy HK packets

End of Procedure

PACS in NO_PRIME (SAFE) mode
 - producing Spectroscopy HK packets
 - producing Diagnostic HK packets

Reference File(s)

Input Command Sequences

Output Command Sequences

HCPF001

Referenced Displays

ANDs GRDs SLDs
 ZAZ98999

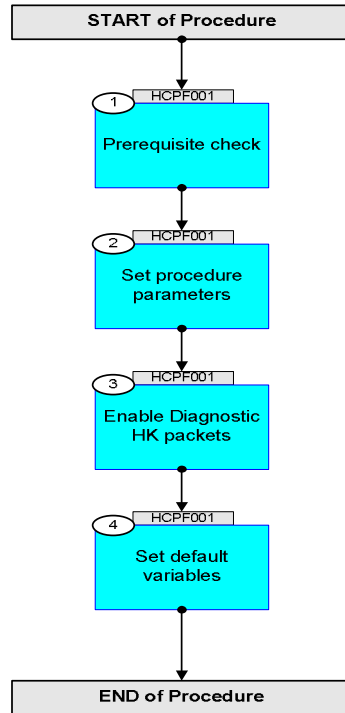
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
12/08/08		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				
<i>TC Seq. Name : HCPF001 (Enable Diag HK)</i> <i>TimeTag Type: B</i> <i>Sub Schedule ID:</i> <input type="checkbox"/>				
1		<i>Prerequisite check</i>		Next Step: 2
1.1		<i>HSC/ICC input</i>		<input type="checkbox"/>
		Verify that the HSC/ICC has supplied a valid OBSID value: OBS_ID = 0xxxxx nnnn		
2		<i>Set procedure parameters</i>		Next Step: 3
	ET=+00.00.00 UT=+00.00.00	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	
	ET=+00.00.01 UT=+00.00.01	DMC_SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID PP070420 Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420 409E0001 <hex>	
		Verify Telemetry DM_OBSID PM028420	OBS_ID	AND=ZAZ98999
		Verify Telemetry DM_BBID PM029420	= 409E0001 <hex>	AND=ZAZ98999
3		<i>Enable Diagnostic HK packets</i>		Next Step: 4

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	DMC_WRT_DIAG_HK_LIST DMC_WRT_DIAG_HK_LIST Command Parameter(s) : DMC_DATA_LENGTH PP065420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420	PC160420 13 <dec> D2 <hex> FF <hex> 100 <hex> 101 <hex> 194 <hex> 195 <hex> 22B <hex> 22F <hex> 230 <hex> 237 <hex>	
		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> DAB <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>	

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