

SPEC_Chopper_dhk_5hk_1khz_OBS
 File: H_COP_PAC_CX04.xls
 Author: R. Biggins



Procedure Summary

Objectives

The objective of this procedure is to update the settings of the Diagnostic HK

Based on procedure:
 SPEC_Chopper_dhk_5hk_1khz_OBS (v1)

Summary of Constraints

This procedure is to be executed upon request by the PACS instrument team

RT Science must be enabled to receive the Diagnostic HK packets

Spacecraft Configuration

Start of Procedure

PACS in NO_PRIME (SAFE) mode

End of Procedure

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

Reference File(s)

Input Command Sequences

Output Command Sequences

HCPCX04

Referenced Displays

ANDs **GRDs** **SLDs**
 ZAZ98999

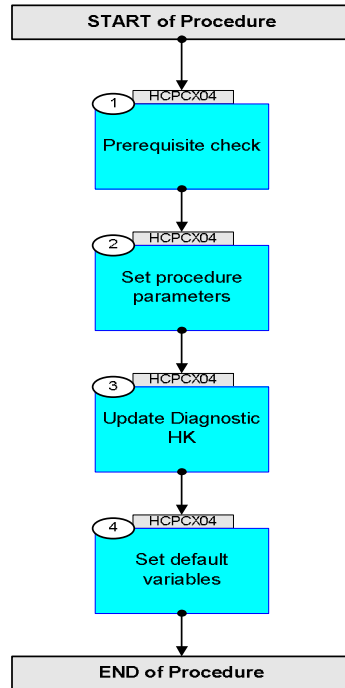
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
09/10/08		1	Created	R. Biggins	
19/11/08	2	2	Updates due to initial testing - New step (1) added for prerequisite check - Initial OBSID value changed to FP	R. Biggins	
20/04/09	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 : HCPCX04 (Update Diag HK)				
TimeTag Type: B Sub Schedule ID: <input type="checkbox"/>				
1		Prerequisite check		Next Step: 2
1.1		HSC/ICC input		<input type="checkbox"/>
		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 Command Parameter(s) : OBSERVATION_ID PP069420 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 90 Det. descr. : SET OBSID IN DMC	DMC_SET_OBSID PC078420 OBS_ID	
	ET=+00.00.00 UT=+00.00.00	DMC_SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID PP070420 Subsch. ID : 90 Det. descr. : SET BBID IN DMC	DMC_SET_BBID PC079420 41DA0001 <hex>	
		Verify Telemetry DM_OBSID PM028420	= OBS_ID	AND=ZAZ98999
		Verify Telemetry DM_BBID PM029420	= 41DA0001 <hex>	AND=ZAZ98999
3		Update Diagnostic HK		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 <i>Command Parameter(s) :</i> 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_CHECKSUM PP066420 <i>TC Control Flags :</i> GBM IL DSE --Y -- ---	PC160420	
		<i>Subsch. ID :</i> 90 <i>Det. descr. :</i> WRITE THE LIST OF DIAGNOSTIC HK INTO DMC MEMORY		
		NOTE: The verification of the update of the generation of the TM(21,3) diagnostic packets cannot be done on the MCS, but can be seen on the NCTRS (VC7)		
4		<i>Set default variables</i>		Next Step: END
	ET=+00.00.01 UT=+00.00.01	DMC_SET_OBSID DMC_SET_OBSID <i>Command Parameter(s) :</i> OBSERVATION_ID PP069420 <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID :</i> 90 <i>Det. descr. :</i> SET OBSID IN DMC	PC078420 00000000 <hex>	
	ET=+00.00.00 UT=+00.00.00	DMC_SET_BBID DMC_SET_BBID <i>Command Parameter(s) :</i> BUILDING_BLOCK_ID PP070420 <i>Subsch. ID :</i> 90 <i>Det. descr. :</i> 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				