

PACS_Spec_SPU_Reset_OBS
 File: H_COP_PAC_X007.xls
 Author: R. Biggins



Procedure Summary

Objectives

The objective of this procedure is to stop the buffer transmission

Based on procedure:
 PACS_Spec_SPU_Reset_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

End of Procedure

PACS in NO_PRIME (SAFE) mode

Reference File(s)

Input Command Sequences

Output Command Sequences

HCPX007

Referenced Displays

ANDs	GRDs	SLDs
ZAZ98999		
PA019420		

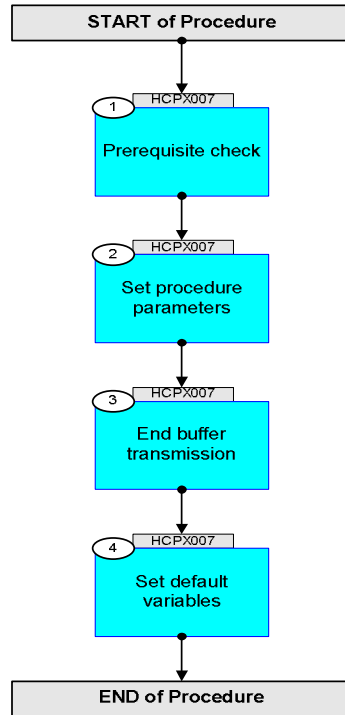
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
15/08/08		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	3	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				
<p><i>TC Seq. Name :HCPX007 (Stop Buffer Tx)</i></p> <p><i>TimeTag Type: B</i> <i>Sub Schedule ID:</i></p> <p style="text-align: center;">□</p>				
1		<i>Prerequisite check</i>		Next Step: 2
1.1		<i>HSC/ICC input</i>		□
		<p>Verify that the HSC/ICC has supplied a valid OBSID value:</p> <p>OBS_ID = 0xnnnn nnnn</p>		
2		<i>Set procedure parameters</i>		Next Step: 3
	ET=+00.00.00 UT=+00.00.00	<p>DMC_SET_OBSID</p> <p style="text-align: right;">DMC_SET_OBSID</p> <p><i>Command Parameter(s) :</i></p> <p style="text-align: right;">OBSERVATION_ID PP069420</p> <p><i>TC Control Flags :</i></p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <p><i>Subsch. ID : 90</i> <i>Det. descr. : SET OBSID IN DMC</i></p>	PC078420	
		<p>Verify Telemetry</p> <p style="text-align: right;">DM_OBSID PM028420</p> <p style="text-align: right;">OBS_ID</p>		AND=ZAZ98999
3		<i>End buffer transmission</i>		Next Step: 4
		The following commands interrupt the SPU application SW		
	ET=+00.00.01 UT=+00.00.01	<p>Send TC</p> <p style="text-align: right;">SPUS_STOP_REDUCT_COMPR</p> <p><i>TC Control Flags :</i></p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <p><i>Subsch. ID : 90</i> <i>Det. descr. : STOP THE APPLICATION PROGRAM IN SPU_SWL</i></p>	PC037400	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Send TC SPUL_STOP_REDUCT_COMPR Subsch. ID : 90 Det. descr. : STOP THE APPLICATION PROGRAM IN SPU_LWL	PC038390	
		The following commands select the number and end index of detectors from which data is collected		
	ET=+00.00.01 UT=+00.00.01	SPUS_RAW_CHAN_TRAN_MODE SPUS_RAW_CHAN_TRAN_MODE Command Parameter(s) : SPUS_OBS_MODE PP050400 SPEC SPUS_RCXNB PP051400 3 <dec> SPUS_RCX PP052400 1 <dec> Subsch. ID : 90 Det. descr. : RAW CHANNEL TRANSMISSION MODE FOR SPUS	PC035400	
	ET=+00.00.01 UT=+00.00.01	SPUL_RAW_CHAN_TRAN_MODE SPUL_RAW_CHAN_TRAN_MODE Command Parameter(s) : SPUL_OBS_MODE PP032390 SPEC SPUL_RCXNB PP033390 3 <dec> SPUL_RCX PP034390 1 <dec> Subsch. ID : 90 Det. descr. : RAW CHANNEL TRANSMISSION MODE FOR SPUL	PC036390	
		The following TC defines the SPU Transmission Mode (verified at end of step)		
	ET=+00.00.01 UT=+00.00.01	DMC_WRT_SPU_TRAN_MODE DMC_WRT_SPU_TRAN_MODE Command Parameter(s) : DMC_4_BYTES_WORDS_DATA PP067420 10 <hex> DMC_4_BYTES_WORDS_DATA PP067420 10 <hex> DMC_CHECKSUM PP066420 2755 <hex> Subsch. ID : 90 Det. descr. : WRITE THE SPU TRASMISSION MODE	PC175420	
		The following commands write the table of the photoconductors constants		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		SPUL_4_BYTES_WORDS_DATA PP037390 SPUL_4_BYTES_WORDS_DATA PP037390 SPUL_4_BYTES_WORDS_DATA PP037390 SPUL_4_BYTES_WORDS_DATA PP037390 SPUL_4_BYTES_WORDS_DATA PP037390 SPUL_4_BYTES_WORDS_DATA PP037390 SPUL_4_BYTES_WORDS_DATA PP037390 SPUL_4_BYTES_WORDS_DATA PP037390 SPUL_4_BYTES_WORDS_DATA PP037390 SPUL_4_BYTES_WORDS_DATA PP037390 SPUL_4_BYTES_WORDS_DATA PP037390 SPUL_4_BYTES_WORDS_DATA PP037390 SPUL_4_BYTES_WORDS_DATA PP037390 SPUL_4_BYTES_WORDS_DATA PP037390 SPUL_CHECKSUM PP036390	0 <hex> 0 <hex> 0 <hex> 0 <hex> 0 <hex> 0 <hex> 0 <hex> 0 <hex> 0 <hex> 0 <hex> 0 <hex> 0 <hex> 0 <hex> 0 <hex> 1285 <hex>	
		Subsch. ID : 90 Det. descr. : WRITE DETECTOR CONSTANTS FOR THE RED SPECTROMETER ARRAY		
		Verify Telemetry DM_BSPU_TR_MODE PM254420	= DEFAULT SPEC	AND=PA019420
		Verify Telemetry DM_RSPU_TR_MODE PM255420	= DEFAULT SPEC	AND=PA019420
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				