

PACS\_Phot\_SPU\_Reset\_OBS  
 File: H\_COP\_PAC\_D306.xls  
 Author: R. Biggins



## Procedure Summary

### Objectives

The objective of this procedure is to reset the SPU after completion of the bolometer detector chain tests

Based on procedure:  
 PACS\_Phot\_SPU\_Reset\_OBS (v1)

### Summary of Constraints

This procedure should be executed as part of the Short Functional Test (HeII conditions)

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  
 - PACS is generating Science HK

#### End of Procedure

PACS in NO\_PRIME (SAFE) mode  
 - PACS is generating Photometry HK

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

HCPD306

### Referenced Displays

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

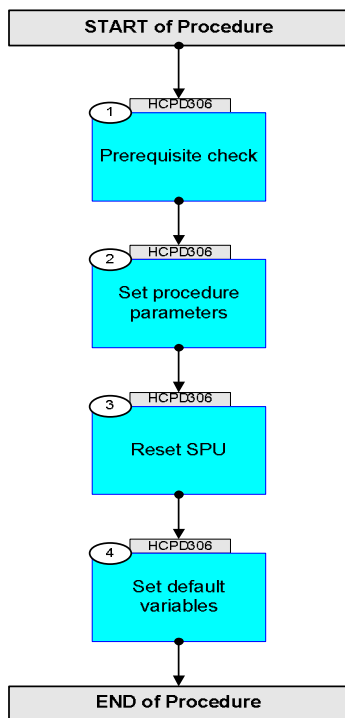
### Configuration Control Information

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	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
<b>Beginning of Procedure</b>				
<i>TC Seq. Name : HCPD306 (Reset SPU constants)</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:  <b>OBS_ID = 0xxxxx nnnn</b>		
2		<i>Set procedure parameters</i>		Next Step: 3
	ET=+00.00.00 UT=+00.00.00	<b>DMC_SET_OBSID</b>  <i>Command Parameter(s) :</i> <b>OBSERVATION_ID</b> <b>PP069420</b>  <i>TC Control Flags :</i>  <b>GBM IL DSE</b> <b>--Y -- ---</b>  <i>Subsch. ID : 90</i> <i>Det. descr. : SET OBSID IN DMC</i>	<b>PC078420</b>  <b>OBS_ID</b>	
		Verify Telemetry  <b>DM_OBSID</b> <b>PM028420</b>	<b>OBS_ID</b>	<b>AND=ZAZ98999</b>
3		<i>Reset SPU</i>		Next Step: 4
		<i>The following TCs stop the SPU ASW</i>		
	ET=+00.00.01 UT=+00.00.01	<b>SPUS_STOP_REDUCT_COMPR</b>  <i>TC Control Flags :</i>  <b>GBM IL DSE</b> <b>--Y -- ---</b>  <i>Subsch. ID : 90</i> <i>Det. descr. : STOP THE APPLICATION PROGRAM IN SPU_SWL</i>	<b>PC037400</b>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	SPUL_STOP_REDUCT_COMPR  Subsch. ID : 90 Det. descr. : STOP THE APPLICATION PROGRAM IN SPU_LWL	PC038390	
		The following TC inserts the defined words into the packet sent to the DPU and indicates the SPU transmission mode		
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand  DMC_WRT_SPU_TRAN_MODE  Command Parameter(s) : DMC_4_BYTES_WORDS_DATA PP067420 DMC_4_BYTES_WORDS_DATA PP067420 DMC_CHECKSUM PP066420  Subsch. ID : 90 Det. descr. : WRITE THE SPU TRASMISSION MODE	PC175420  0 <hex> 0 <hex> 313E <hex>	
		The following TCs selects the number and index of raw channel for the Red and Blue SPU channels		
	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 SPUS_RCXNB PP051400 SPUS_RCX PP052400  Subsch. ID : 90 Det. descr. : RAW CHANNEL TRANSMISSION MODE FOR SPUS	PC035400  PHOT 3 <dec> 1 <dec>	
	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 SPUL_RCXNB PP033390 SPUL_RCX PP034390  Subsch. ID : 90 Det. descr. : RAW CHANNEL TRANSMISSION MODE FOR SPUL	PC036390  PHOT 3 <dec> 1 <dec>	
		The following TCs are used to write the table of the photoconductors constants, which are relevant for the pre-processing step.		



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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> 5F01 <hex>	
		Subsch. ID : 90 Det. descr. : WRITE DETECTOR CONSTANTS FOR THE RED PHOTOMETER ARRAY		
		<b>NOTE:</b> The verification of the cessation of the generation of Science packets cannot be done on the MCS, but can be seen on the NCTRS (VC7)		
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
<b>End of Procedure</b>				