

PACS\_Chopper\_EnDis\_Test\_NoConf\_ast300  
 File: H\_COP\_PAC\_C102.xls  
 Author: R. Biggins



## Procedure Summary

### Objectives

The objective of this procedure is to verify the stability of the PACS chopper during a 300 second time period

Based on procedure:  
 PACS\_Chopper\_EnDis\_Test\_NoConf\_ast300 (v1)

### Summary of Constraints

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

### Reference File(s)

**Input Command Sequences**

**Output Command Sequences**

HCPC102

### Referenced Displays

ANDs      GRDs      SLDs

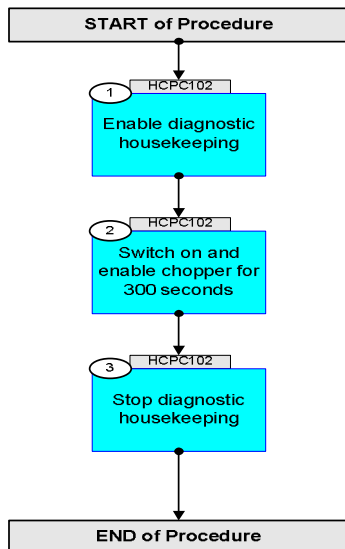
### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
26/08/08	2	1	Created	R. Biggins	
20/04/09	2.3	1.01	Validation : Final updates before flight - Summary updated - TC flags updated	R. Biggins	

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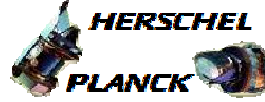


## Procedure Flowchart Overview





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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.10 UT=+00.00.10	DMC_ENABLE_CHOP_CONT  DMC_ENABLE_CHOP_CONT  Subsch. ID : 90 Det. descr. : ENABLE CHOPPER CONTROLLER	PC121420	
		After 300 seconds, disonnect chopper from amplifier and deactivate servo-loop		
	ET=+00.05.00 UT=+00.05.00	DMC_DISABLE_CHOP_CONT  DMC_DISABLE_CHOP_CONT  SSID : 90	PC122420	
	ET=+00.00.10 UT=+00.00.10	DMC_SWOF_CHOP_CONT  DMC_SWOF_CHOP_CONT  Subsch. ID : 90 Det. descr. : SWITCH OFF CHOPPER CONTROLLER	PC120420	
3		Stop diagnostic housekeeping		Next Step: END
	ET=+00.00.10 UT=+00.00.10	DMC_STOP_DIAG_HK  DMC_STOP_DIAG_HK  TC Control Flags :  GBM IL DSE --Y -- ---  Subsch. ID : 90 Det. descr. : STOP THE ACQUISITION OF THE DIAGNOSTIC HK	PC147420	
		<b>NOTE:</b> The verification of the end of generation of the <b>TM(21,3)</b> diagnostic packets cannot be done on the MCS, but can be seen on the NCTRS (VC7)		
		Offline analysis is required by the ICC to analyse the behaviour of the chopper during the time that the chopper controller is enabled		
<b>End of Procedure</b>				