

ACMS SCM Fine Pointing Functional Check (LGA)  
 File: H\_COP\_AOC\_0650.xls  
 Author: dsalt-hp



## Procedure Summary

### Objectives

The objective of this Herschel ACMS commissioning procedure is to perform the ACMS Fine Pointing functional check slews in SCM, which requires use of the LGA.

The procedure involves the following activities:

- define/enable the necessary DTM packets, if necessary (calls H\_FCP\_AOC\_D3FD)
- perform 9 calibration slews to the following attitudes (calls H\_FCP\_AOC\_3S01)
  - SAA=62deg, roll=0 and Interlacing OFF
  - pointing exactly as previous, but Interlacing ON
  - SAA=118deg, roll=0
  - SAA=90deg, roll=0
  - SAA=90deg, roll=+2
  - SAA=90deg, roll=-2
  - SAA=90deg, roll=0
  - SAA=90deg, roll=0, +120deg slew round sun vector
  - SAA=90deg, roll=0, +120deg slew round sun vector
  - SAA=90deg, roll=0, +120deg slew round sun vector
- disable/delete DTM (calls H\_FCP\_AOC\_D3FD)

### Summary of Constraints

To be executed in accordance with the Herschel commissioning plan and associated timeline

### Spacecraft Configuration

**Start of Procedure**

S/C in SCM

**End of Procedure**

S/C in SCM

### Reference File(s)

**Input Command Sequences**

**Output Command Sequences**

### Referenced Displays

ANDs      GRDs      SLDs

### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
22/04/09	2.3	1	Created	dsalt-hp	

Status : Version 2 - Unchanged  
 Last Checkin: 05/05/09

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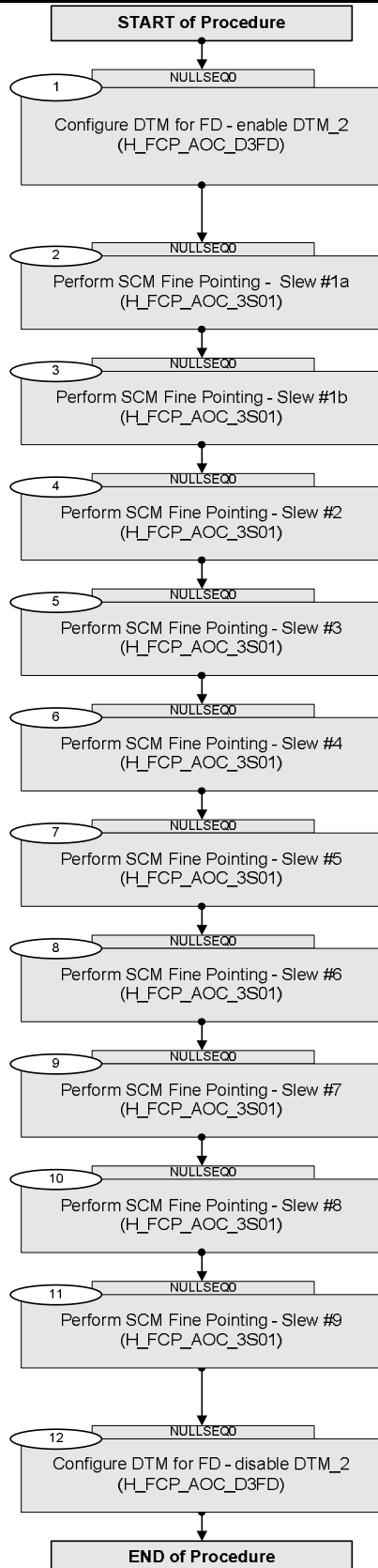


05/05/09	2.4	2	Slew #1 split into 2 parts and new Slew #5 added for roll=-2	dsalt-hp	
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### Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>Beginning of Procedure</b>				
TC Seq. Name :NULLSEQ0 ( )  TimeTag Type: Sub Schedule ID:  <input type="checkbox"/>				
1		Configure DTM for FD - enable DTM_2 (H_FCP_AOC_D3FD)		Next Step: 2
		Execute procedure H_FCP_AOC_D3FD (Configure DTM for FD) to define and enable selected DTM packets, as necessary  Use DTM_2 (Step 4) to define and enable diagnostic packet with STRM 18 stars data (SPID=18025109)		
		Execute Procedure: H_FCP_AOC_D3FD Configure DTM for FD		
2		Perform SCM Fine Pointing - Slew #1a (H_FCP_AOC_3S01)		Next Step: 3
		Execute procedure H_FCP_AOC_3S01 (Perform SCM Fine Pointing) using the specific instance of TPF=SFP generated by FD to command a Slew #1: - target at SAA=62 deg, roll=0 (select star field where interlacing is possible) and Interlacing OFF		
		Execute Procedure: H_FCP_AOC_3S01 Perform SCM Fine Pointing		
3		Perform SCM Fine Pointing - Slew #1b (H_FCP_AOC_3S01)		Next Step: 4
		Execute procedure H_FCP_AOC_3S01 (Perform SCM Fine Pointing) using the specific instance of TPF=SFP generated by FD to command Slew #2: - pointing exactly as previous, but Interlacing ON		
		Execute Procedure: H_FCP_AOC_3S01 Perform SCM Fine Pointing		
4		Perform SCM Fine Pointing - Slew #2 (H_FCP_AOC_3S01)		Next Step: 5

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<i>Execute procedure H_FCP_AOC_3S01 (Perform SCM Fine Pointing) using the specific instance of TPF=SFP generated by FD to command Slew #3: - target at SAA=118 deg, roll=0</i>		
		Execute Procedure: H_FCP_AOC_3S01 Perform SCM Fine Pointing		
5		Perform SCM Fine Pointing - Slew #3 (H_FCP_AOC_3S01)		Next Step: 6
		<i>Execute procedure H_FCP_AOC_3S01 (Perform SCM Fine Pointing) using the specific instance of TPF=SFP generated by FD to command Slews #4: - target at SAA=90 deg, roll=0</i>		
		Execute Procedure: H_FCP_AOC_3S01 Perform SCM Fine Pointing		
6		Perform SCM Fine Pointing - Slew #4 (H_FCP_AOC_3S01)		Next Step: 7
		<i>Execute procedure H_FCP_AOC_3S01 (Perform SCM Fine Pointing) using the specific instance of TPF=SFP generated by FD to command Slews #5: - target at SAA=90 deg, roll=+2</i>		
		Execute Procedure: H_FCP_AOC_3S01 Perform SCM Fine Pointing		
7		Perform SCM Fine Pointing - Slew #5 (H_FCP_AOC_3S01)		Next Step: 8
		<i>Execute procedure H_FCP_AOC_3S01 (Perform SCM Fine Pointing) using the specific instance of TPF=SFP generated by FD to command Slews #5: - target at SAA=90 deg, roll=-2</i>		
		Execute Procedure: H_FCP_AOC_3S01 Perform SCM Fine Pointing		
8		Perform SCM Fine Pointing - Slew #6 (H_FCP_AOC_3S01)		Next Step: 9

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<i>Execute procedure H_FCP_AOC_3S01 (Perform SCM Fine Pointing) using the specific instance of TPF=SFP generated by FD to command Slew #6: - target at SAA=90 deg, roll=0</i>		
		Execute Procedure: H_FCP_AOC_3S01 Perform SCM Fine Pointing		
9		Perform SCM Fine Pointing - Slew #7 (H_FCP_AOC_3S01)		Next Step: 10
		<i>Execute procedure H_FCP_AOC_3S01 (Perform SCM Fine Pointing) using the specific instance of TPF=SFP generated by FD to command Slew #7: - target at SAA=90 deg, roll=0, +120 deg slew around sun vector</i>		
		Execute Procedure: H_FCP_AOC_3S01 Perform SCM Fine Pointing		
10		Perform SCM Fine Pointing - Slew #8 (H_FCP_AOC_3S01)		Next Step: 11
		<i>Execute procedure H_FCP_AOC_3S01 (Perform SCM Fine Pointing) using the specific instance of TPF=SFP generated by FD to command Slew #8: - target at SAA=90 deg, roll=0, +120 deg slew around sun vector</i>		
		Execute Procedure: H_FCP_AOC_3S01 Perform SCM Fine Pointing		
11		Perform SCM Fine Pointing - Slew #9 (H_FCP_AOC_3S01)		Next Step: 12
		<i>Execute procedure H_FCP_AOC_3S01 (Perform SCM Fine Pointing) using the specific instance of TPF=SFP generated by FD to command Slew #9: - target at SAA=90 deg, roll=0, +120 deg slew around sun vector</i>		
		Execute Procedure: H_FCP_AOC_3S01 Perform SCM Fine Pointing		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
12		Configure DTM for FD - disable DTM_2 (H_FCP_AOC_D3FD)		Next Step: END
		Execute procedure H_FCP_AOC_D3FD (Configure DTM for FD) to define and enable selected DTM packets, as necessary  Use DTM_2 (Step 5) to disable and delete diagnostic packet with STRM 18 stars data (SPID=18025109)		
		Execute Procedure: H_FCP_AOC_D3FD Configure DTM for FD		
<b>End of Procedure</b>				