ACMS STR1 Memory Dump
File: H_COP_AOC_7156.xls
Author: lstefanov-hp

Procedure Summary

Objectives

This procedure is used to perform STR1 memory dumps during
Herschel commissioning.

The procedure covers the following memory devices:
- STR1 EEPROM
- STR1 RAM

Summary of Constraints

CDMU in Operational Mode
- ACC in Operational Mode
- STR NOT in INI Mode

Spacecraft Configuration

Start of Procedure

CDMU in Operational Mode
- ACC in Operational Mode
- STR NOT in INI Mode

End of Procedure

Same as start except:
- STR1 memory dumps executed

Reference File(s)

Input Command Sequences

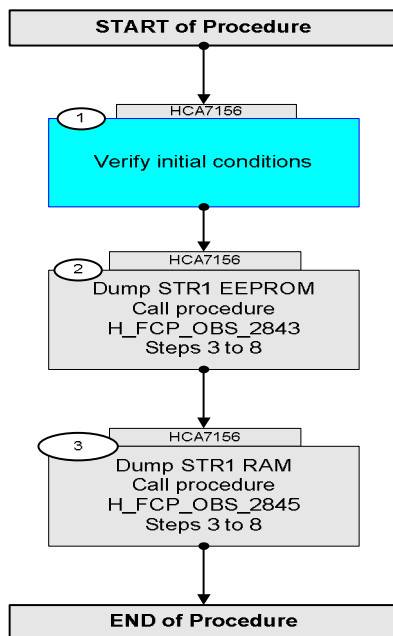**Output Command Sequences**

Referenced Displays

ANDs   GRDs   SLDs
AA01X109

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
25/03/09	2.2	1	Created	t.loureiro-hp	
08/04/09	2.3	2	1. added current step 1 for initial conditions verification 2. current step 2 updated: call to H_FCP_OBS_2810 replaced by call to H_FCP_OBS_2843	lstefanov-hp	

Status   : Version 2 - Unchanged
Last Checkin: 08/04/09

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Procedure Flowchart Overview

```
                  START of Procedure


            1           HCA7156

                  Verify initial conditions


            2           HCA7156
                  Dump STR1 EEPROM
                  Call procedure
                  H_FCP_OBS_2843
                  Steps 3 to 8


            3           HCA7156
                  Dump STR1 RAM
                  Call procedure
                  H_FCP_OBS_2845
                  Steps 3 to 8


                  END of Procedure
```

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Beginning of Procedure			
	HCA7156	*TC Seq. Name :*HCA7156 (STR1 Mem Dmp) STR1 Memory Dumps *TimeTag Type:* *Sub Schedule ID:*			
1		Verify initial conditions		Next Step: 2	
		Check: - CDMU in Operational Mode - ACC in Operational Mode - STR1 NOT in INI Mode			
		Note: In ACMS mode in which the STR data are used for attitude determination, the STR cannot be in INI mode without triggering FDIR. The procedure can, however be executed also in SAM, in which there is no constraint on the STR mode so that explicit check is necessary to make sure that the download commands will not be rejected by the STR.			
		CDMU SOE to confirm CDMU mode			
		AOCS SOE to confirm ACC and STR mode			
		Note: **STR Main** telemetry is part of the essential and mode telemetry packets. If not configured as MAIN, a diagnostic telemetry packet has to be enabled in order to verify the status of the physical unit. This is executed in calling procedure H_SVT_AOC_4S51 or H_SVT_AOC_4S52.			
		Verify Telemetry **STRM Mode AEX04001**	**<> Initialisation**	AND=AA01X109	
		OR			
		Verify Telemetry **Operating Mode AMX12074**	**<> Initialisation**	AND=AA01X109	
2		Dump STR1 EEPROM Call procedure H_FCP_OBS_2843 Steps 3 to 8 type: [Proc]		Next Step: 3	
		Execute steps 3 to 8 of procedure **H_FCP_OBS_2843** (TC Sequence OFCP284M)			
		H_FCP_OBS_2843 Update STR EEPROM ground image from memory dump			
3		Dump STR1 RAM Call procedure H_FCP_OBS_2845 Steps 3 to 8 type: [Proc]		Next Step: END	
		Execute steps 13 to 18 of procedure **H_FCP_OBS_2845** (TC Sequence OFCP284U)			

Status   : Version 2 - Unchanged
Last Checkin: 08/04/09

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		H_FCP_OBS_2845 Update STR RAM ground image from memory dump			
		End of Sequence			
		End of Procedure			