

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC procedure of ESA simulator)
File: H_GSP_AOC_2RMS.xls
Author: dsalt-hp



Procedure Summary

Objectives

This procedure is meant for the simulator developers at VEGA Darmstadt.

It provides the commands and telemetry checks for setting up the reconfiguration module (RM) PRE-LAUNCH. Note that these are adaptations to what is in the RM EEPROM image.

NOTE 1: The modified RM parameters are based upon the list given in the Dutch Space "User Manual Flight Control Procedures for the Herschel S/C" (H-P-4-DS-MA-007, Issue 2, Rev. 4, Section 2.2.1.7) within Step 6 of the related procedure [FCP-H-T-STRT].

Summary of Constraints

Spacecraft Configuration

Start of Procedure

Pre-launch
RM loaded from EEPROM image only

End of Procedure

Pre-launch
RM loaded from EEPROM image with adaptations specified by Industry

Reference File(s)

Input Command Sequences

Output Command Sequences

HGA2RMS1

Referenced Displays

ANDs	GRDs	SLDs
ZAA07999		
ZAAM0999		
ZAAM1999		
ZAAM2999		
ZAAM3999		

Configuration Control Information

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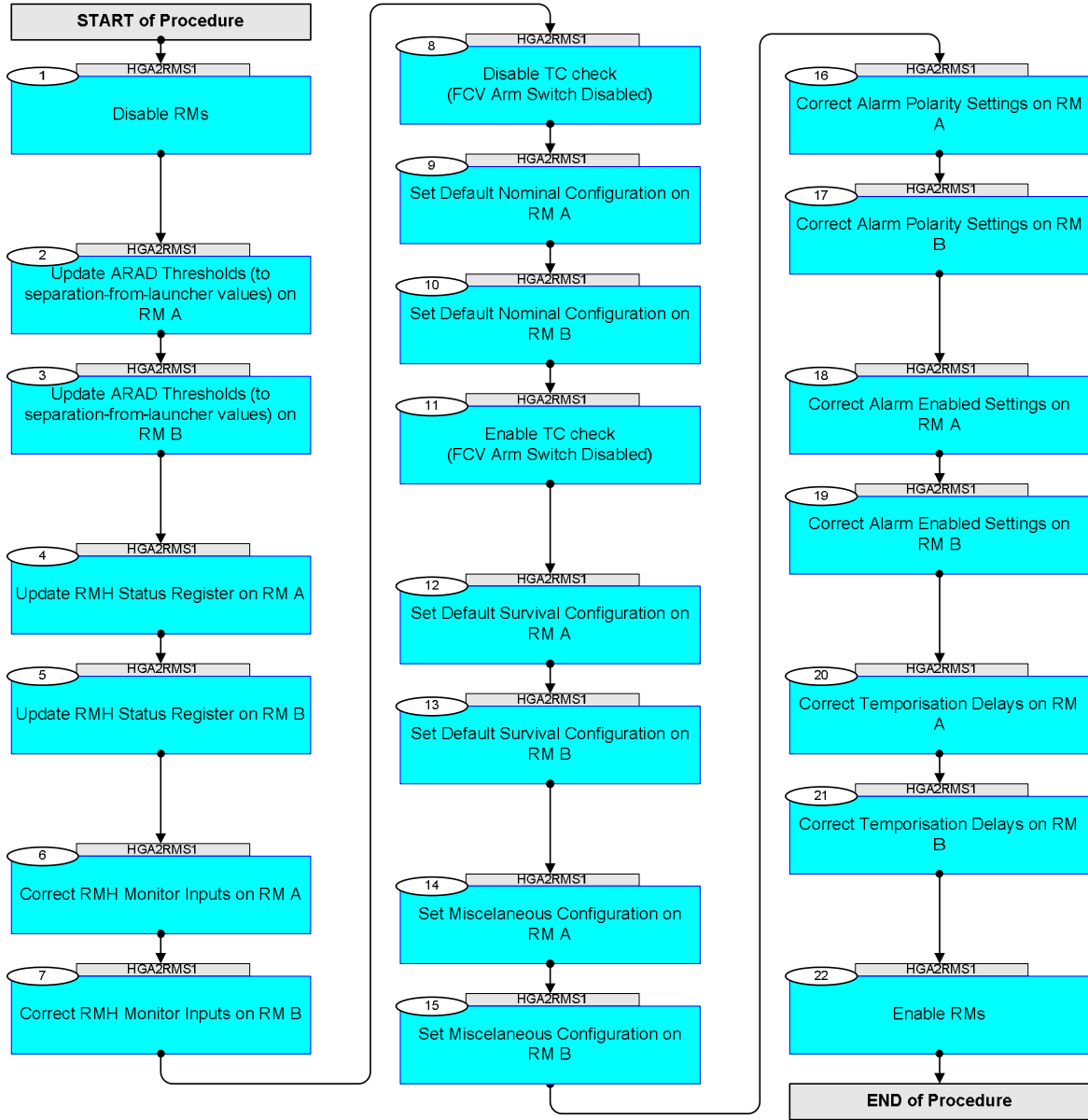


DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
23/12/08	2	1	Created	dsalt-hp	
04/02/09		2	TC values for RM parameters corrected in Step 6 & 7, Step 10 & 11, Step 16 & 17	dsalt-hp	
04/02/09		3	TC values for RM parameters re-corrected in Step 6 & 7	dsalt-hp	
06/02/09		4	TC in Step 6/7 & 10/11 updated to pre-launch values (old values were post-separation)	dsalt-hp	
23/02/09	2.1	5	Updated to bring procedure in-line with RM modifications defined in the Dutch Space "User Manual Flight Control Procedures for the Herschel S/C" (H-P-4-DS-MA-007, Issue 2, Rev. 4, Section 2.2.1.7, Step 6)	dsalt-hp	
15/04/09	2.3	6	Previously deleted steps now re-instated (Step 4-7) to correct for simulator missing functionality	dsalt-hp	

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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
TC Seq. Name : HGA2RMS1 (RmSetup)				
TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
1		Disable RMs		Next Step: 2
1.1		Uplink Commands		<input type="checkbox"/>
	ET=+ UT=+00.00.00	Execute Telecommand Get RM-A status Command Parameter(s) : RMStat DF86Cmd AH841001 RMStat DD86Cmd AH842001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-A status	ACZZ4109 Enable 86 Enable 86	
	ET=+ UT=+00.00.10	Execute Telecommand Get RM-B status Command Parameter(s) : RMStat DF86Cmd AH841001 RMStat DD86Cmd AH842001 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-B status	ACZZ5109 Enable 86 Enable 86	
	ET=+ UT=+00.00.05	Execute Telecommand Ext_ACC_RM_A_Disable Subsch. ID : 10 Det. descr. : External ACC RM A Disable - Mission Specific	DCM22170	
	ET=+ UT=+00.00.05	Execute Telecommand Ext_ACC_RM_B_Disable Subsch. ID : 10 Det. descr. : External ACC RM B Disable - Mission Specific	DCM25170	
1.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry RMA_fromTTR-RMA AEE91050	= DISABLED	AND=ZAA07999
		Verify Telemetry RMA_fromTTR-RMB AEE92050	= DISABLED	AND=ZAA07999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry RMB_fromTTR-RMA AEE93050	= DISABLED	AND=ZAA07999
		Verify Telemetry RMB_fromTTR-RMB AEE94050	= DISABLED	AND=ZAA07999
2		Update ARAD Thresholds (to separation-from-launcher values) on RM A		Next Step: 3
2.1		Uplink Commands		<input type="checkbox"/>
		CRS X-channels lower limit: $-1.300 \text{ deg/s} = -1.300 \text{ Volts}$ $\text{Int}[(-1.300 + 8.6236) / 17.2431 * 4095]$ $= 1739 \text{ <dec>} = 06CB \text{ <hex>}$ CRS X-channels upper limit: $1.300 \text{ deg/s} = 1.300 \text{ Volts}$ $\text{Int}[(1.300 + 8.6236) / 17.2431 * 4095]$ $= 2356 \text{ <dec>} = 0934 \text{ <hex>}$		
	ET=+ UT=+00.00.05	Execute Telecommand ARADupdRMA CRS1rateTh X Command Parameter(s) : AradUpd DF86Cmd AH8A1001 AradUPd DD86Cmd AH8A2001 AradUpdUppCrsX AHFA4001 AradUpdLowCrsX AHFA7001 Subsch. ID : 20 Det. descr. : TC(8,1) Update ARAD parameters - ARADupdRMA CRS1rateTh X	ACZ5E109	Enable 86 Enable 86 084B <hex> 07B3 <hex>
	ET=+ UT=+00.00.02	Execute Telecommand Fire Update ARAD param Command Parameter(s) : FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Update ARAD param	ACZ3M109	Enable 86 Enable 86

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (25/04/10) of ESOC simulator)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch												
		CRS Y/Z-channels lower limit: $-1.300 \text{ deg/s} = -1.300 \text{ Volts}$ $\text{Int}[(-1.300 + 2.0528) / 4.1046 * 4095]$ $= 751 \text{ <dec>} = \text{2EF} \text{ <hex>}$ CRS Y/Z-channels upper limit: $1.300 \text{ deg/s} = 1.300 \text{ Volts}$ $\text{Int}[(1.300 + 2.0528) / 4.1046 * 4095]$ $= 3344 \text{ <dec>} = \text{D10} \text{ <hex>}$														
	ET=+ UT=+00.00.02	Execute Telecommand ARADupdRMA CRSIrateTh Y Command Parameter(s) : <table border="0"> <tr> <td>AradUpd DF86Cmd</td> <td>AH8A1001</td> <td>Enable 86</td> </tr> <tr> <td>AradUPd DD86Cmd</td> <td>AH8A2001</td> <td>Enable 86</td> </tr> <tr> <td>AradUpdUppCrsYZ</td> <td>AHFA5001</td> <td>093D <hex></td> </tr> <tr> <td>AradUpdLowCrsYZ</td> <td>AHFA8001</td> <td>06C1 <hex></td> </tr> </table> Subsch. ID : 20 Det. descr. : TC(8,1) Update ARAD parameters - ARADupdRMA CRSIrateTh Y	AradUpd DF86Cmd	AH8A1001	Enable 86	AradUPd DD86Cmd	AH8A2001	Enable 86	AradUpdUppCrsYZ	AHFA5001	093D <hex>	AradUpdLowCrsYZ	AHFA8001	06C1 <hex>	ACZ6E109	
AradUpd DF86Cmd	AH8A1001	Enable 86														
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AradUpdUppCrsYZ	AHFA5001	093D <hex>														
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	ET=+ UT=+00.00.02	Execute Telecommand ARADupdRMA CRSIrateTh Z Command Parameter(s) : <table border="0"> <tr> <td>AradUpd DF86Cmd</td> <td>AH8A1001</td> <td>Enable 86</td> </tr> <tr> <td>AradUPd DD86Cmd</td> <td>AH8A2001</td> <td>Enable 86</td> </tr> <tr> <td>AradUpdUppCrsYZ</td> <td>AHFA5001</td> <td>093D <hex></td> </tr> <tr> <td>AradUpdLowCrsYZ</td> <td>AHFA8001</td> <td>06C1 <hex></td> </tr> </table> Subsch. ID : 20 Det. descr. : TC(8,1) Update ARAD parameters - ARADupdRMA CRSIrateTh Z	AradUpd DF86Cmd	AH8A1001	Enable 86	AradUPd DD86Cmd	AH8A2001	Enable 86	AradUpdUppCrsYZ	AHFA5001	093D <hex>	AradUpdLowCrsYZ	AHFA8001	06C1 <hex>	ACZ7E109	
AradUpd DF86Cmd	AH8A1001	Enable 86														
AradUPd DD86Cmd	AH8A2001	Enable 86														
AradUpdUppCrsYZ	AHFA5001	093D <hex>														
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		<p>CRS X-channels lower limit:</p> <p>-1.300 deg/s = -1.300 Volts $Int[(-1.300 + 8.6236) / 17.2431 * 4095]$ = 1739 <dec> = 06CB <hex></p> <p>CRS X-channels upper limit:</p> <p>1.300 deg/s = 1.300 Volts $Int[(1.300 + 8.6236) / 17.2431 * 4095]$ = 2356 <dec> = 0934 <hex></p>														
	ET=+ UT=+00.00.02	<p>Execute Telecommand</p> <p style="text-align: center;">ARADupdRMA CRS2rateTh X</p> <p>Command Parameter(s) :</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">AradUpd DF86Cmd</td> <td style="width: 30%;">AH8A1001</td> <td style="width: 40%;">Enable 86</td> </tr> <tr> <td>AradUPd DD86Cmd</td> <td>AH8A2001</td> <td>Enable 86</td> </tr> <tr> <td>AradUpdUppCrsX</td> <td>AHFA4001</td> <td>084B <hex></td> </tr> <tr> <td>AradUpdLowCrsX</td> <td>AHFA7001</td> <td>07B3 <hex></td> </tr> </table> <p>Subsch. ID : 20 Det. descr. : TC(8,1) Update ARAD parameters - ARADupdRMA CRS2rateTh X</p>	AradUpd DF86Cmd	AH8A1001	Enable 86	AradUPd DD86Cmd	AH8A2001	Enable 86	AradUpdUppCrsX	AHFA4001	084B <hex>	AradUpdLowCrsX	AHFA7001	07B3 <hex>	ACZ8E109	
AradUpd DF86Cmd	AH8A1001	Enable 86														
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AradUpdUppCrsX	AHFA4001	084B <hex>														
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	ET=+ UT=+00.00.02	<p>Execute Telecommand</p> <p style="text-align: center;">Fire Update ARAD param</p> <p>Command Parameter(s) :</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">FireFun DF86Cmd</td> <td style="width: 30%;">AH8F1001</td> <td style="width: 40%;">Enable 86</td> </tr> <tr> <td>FireFun DD86Cmd</td> <td>AH8F2001</td> <td>Enable 86</td> </tr> </table> <p>Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Update ARAD param</p>	FireFun DF86Cmd	AH8F1001	Enable 86	FireFun DD86Cmd	AH8F2001	Enable 86	ACZ3M109							
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		<p>CRS Y/Z-channels lower limit:</p> <p>-1.300 deg/s = -1.300 Volts $Int[(-1.300 + 2.0528) / 4.1046 * 4095]$ = 751 <dec> = 2EF <hex></p> <p>CRS Y/Z-channels upper limit:</p> <p>1.300 deg/s = 1.300 Volts $Int[(1.300 + 2.0528) / 4.1046 * 4095]$ = 3344 <dec> = D10 <hex></p>														

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand ARADupdRMA CRS2rateTh Y <i>Command Parameter(s) :</i> AradUpd DF86Cmd AH8A1001 Enable 86 AradUPd DD86Cmd AH8A2001 Enable 86 AradUpdUppCrsYZ AHFA5001 093D <hex> AradUpdLowCrsYZ AHFA8001 06C1 <hex> <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) Update ARAD parameters - ARADupdRMA CRS2rateTh Y	ACZ9E109	
	ET=+ UT=+00.00.02	Execute Telecommand Fire Update ARAD param <i>Command Parameter(s) :</i> FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Update ARAD param	ACZ3M109	
	ET=+ UT=+00.00.02	Execute Telecommand ARADupdRMA CRS2rateTh Z <i>Command Parameter(s) :</i> AradUpd DF86Cmd AH8A1001 Enable 86 AradUPd DD86Cmd AH8A2001 Enable 86 AradUpdUppCrsYZ AHFA5001 093D <hex> AradUpdLowCrsYZ AHFA8001 06C1 <hex> <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) Update ARAD parameters - ARADupdRMA CRS2rateTh Z	ACZ1F109	
	ET=+ UT=+00.00.02	Execute Telecommand Fire Update ARAD param <i>Command Parameter(s) :</i> FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Update ARAD param	ACZ3M109	
		AAD limit = 124.88169 μ A AAD limit conversion for command input = = 2048 + int[124.88169 / 605.765 μ A * 2047] = 2469 <dec> = 9A5 <hex>		

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (25/04/10) of ESOC (Simulator))
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand ARADupd RMA AAD1curr th <i>Command Parameter(s) :</i> AradUpd DF86Cmd AH8A1001 AradUPd DD86Cmd AH8A2001 AradUpd AAD AHFA6001 <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) Update ARAD parameters - ARADupd RMA AAD1curr th	ACZ5G109 Enable 86 Enable 86 0995 <hex>	
	ET=+ UT=+00.00.02	Execute Telecommand Fire Update ARAD param <i>Command Parameter(s) :</i> FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Update ARAD param	ACZ3M109 Enable 86 Enable 86	
	ET=+ UT=+00.00.02	Execute Telecommand ARADupdRMA AAD2curr th <i>Command Parameter(s) :</i> AradUpd DF86Cmd AH8A1001 AradUPd DD86Cmd AH8A2001 AradUpd AAD AHFA6001 <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) Update ARAD parameters - ARADupdRMA AAD2curr th	ACZ6G109 Enable 86 Enable 86 0995 <hex>	
	ET=+ UT=+00.00.02	Execute Telecommand Fire Update ARAD param <i>Command Parameter(s) :</i> FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Update ARAD param	ACZ3M109 Enable 86 Enable 86	
	ET=+ UT=+00.00.05	Execute Telecommand Get RM-A status <i>Command Parameter(s) :</i> RMStat DF86Cmd AH841001 RMStat DD86Cmd AH842001 <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) - Get RM-A status	ACZZ4109 Enable 86 Enable 86	
2.2		Verify Status		□

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (2500 Hz) of ESOC (Simulator)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry CRS1-XUpLimit AEW3A109	= 0.31993 V	AND=ZAAM0999
		Verify Telemetry CRS1-XLowLimit AEW3B109	= -0.3201 V	AND=ZAAM0999
		Verify Telemetry CRS1-YUpLimit AEW3C109	= 0.31864 V	AND=ZAAM0999
		Verify Telemetry CRS1-YLowLimit AEW3D109	= -0.31882 V	AND=ZAAM0999
		Verify Telemetry CRS1-ZUpLimit AEW3E109	= 0.31864 V	AND=ZAAM0999
		Verify Telemetry CRS1-ZLowLimit AEW3F109	= -0.31882 V	AND=ZAAM0999
		Verify Telemetry CRS2-XUpLimit AEW3G109	= 0.31993 V	AND=ZAAM0999
		Verify Telemetry CRS2-XLowLimit AEW3H109	= -0.3201 V	AND=ZAAM0999
		Verify Telemetry CRS2-YUpLimit AEW3J109	= 0.31864 V	AND=ZAAM0999
		Verify Telemetry CRS2-YLowLimit AEW3K109	= -0.31882 V	AND=ZAAM0999
		Verify Telemetry CRS2-ZUpLimit AEW3L109	= 0.31864 V	AND=ZAAM0999
		Verify Telemetry CRS2-ZLowLimit AEW3M109	= -0.31882 V	AND=ZAAM0999
		Verify Telemetry AAD1 limit AEW3V109	= 120.14684 uA	AND=ZAAM0999
		Verify Telemetry AAD2 limit AEW3W109	= 120.14684 uA	AND=ZAAM0999
3		Update ARAD Thresholds (to separation-from-launcher values) on RM B		Next Step: 4
3.1		Uplink Commands		<input type="checkbox"/>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch												
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	ET=+ UT=+00.00.05	<p>Execute Telecommand</p> <p style="text-align: center;">ARADupdRMB CRSrateTh X</p> <p>Command Parameter(s) :</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">AradUpd DF86Cmd</td> <td style="width: 30%;">AH8A1001</td> <td style="width: 40%;">Enable 86</td> </tr> <tr> <td>AradUPd DD86Cmd</td> <td>AH8A2001</td> <td>Enable 86</td> </tr> <tr> <td>AradUpdUppCrsX</td> <td>AHFA4001</td> <td>084B <hex></td> </tr> <tr> <td>AradUpdLowCrsX</td> <td>AHFA7001</td> <td>07B3 <hex></td> </tr> </table> <p>Subsch. ID : 20 Det. descr. : TC(8,1) Update ARAD parameters - ARADupdRMB CRSrateTh X</p>	AradUpd DF86Cmd	AH8A1001	Enable 86	AradUPd DD86Cmd	AH8A2001	Enable 86	AradUpdUppCrsX	AHFA4001	084B <hex>	AradUpdLowCrsX	AHFA7001	07B3 <hex>	ACZ5F109	
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand ARADupdRMB CRSIrateTh Y <i>Command Parameter(s) :</i> AradUpd DF86Cmd AH8A1001 AradUPd DD86Cmd AH8A2001 AradUpdUppCrsYZ AHFA5001 AradUpdLowCrsYZ AHFA8001 <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) Update ARAD parameters - ARADupdRMB CRSIrateTh Y	ACZ6F109 Enable 86 Enable 86 093D <hex> 06C1 <hex>	
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand ARADupdRMB CRS2rateTh X <i>Command Parameter(s) :</i> AradUpd DF86Cmd AH8A1001 Enable 86 AradUPd DD86Cmd AH8A2001 Enable 86 AradUpdUppCrsX AHFA4001 084B <hex> AradUpdLowCrsX AHFA7001 07B3 <hex> <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) Update ARAD parameters - ARADupdRMB CRS2rateTh X	ACZ8F109	
	ET=+ UT=+00.00.02	Execute Telecommand Fire Update ARAD param <i>Command Parameter(s) :</i> FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Update ARAD param	ACZ3M109	
		CRS Y/Z-channels lower limit: $-1.300 \text{ deg/s} = -1.300 \text{ Volts}$ $\text{Int}[(-1.300 + 2.0528) / 4.1046 * 4095]$ $= 751 \text{ <dec>} = \mathbf{2EF \text{ <hex>}}$ CRS Y/Z-channels upper limit: $1.300 \text{ deg/s} = 1.300 \text{ Volts}$ $\text{Int}[(1.300 + 2.0528) / 4.1046 * 4095]$ $= 3344 \text{ <dec>} = \mathbf{D10 \text{ <hex>}}$		
	ET=+ UT=+00.00.02	Execute Telecommand ARADupdRMB CRS2rateTh Y <i>Command Parameter(s) :</i> AradUpd DF86Cmd AH8A1001 Enable 86 AradUPd DD86Cmd AH8A2001 Enable 86 AradUpdUppCrsYZ AHFA5001 093D <hex> AradUpdLowCrsYZ AHFA8001 06C1 <hex> <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) Update ARAD parameters - ARADupdRMB CRS2rateTh Y	ACZ9F109	
	ET=+ UT=+00.00.02	Execute Telecommand Fire Update ARAD param <i>Command Parameter(s) :</i> FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Update ARAD param	ACZ3M109	

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (25/04/10) of ESOC simulator)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand ARADupdRMB CRS2rateTh Z <i>Command Parameter(s) :</i> AradUpd DF86Cmd AH8A1001 Enable 86 AradUPd DD86Cmd AH8A2001 Enable 86 AradUpdUppCrsYZ AHFA5001 093D <hex> AradUpdLowCrsYZ AHFA8001 06C1 <hex> <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) Update ARAD parameters - ARADupdRMB CRS2rateTh Z	ACZ1G109	
	ET=+ UT=+00.00.02	Execute Telecommand Fire Update ARAD param <i>Command Parameter(s) :</i> FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Update ARAD param	ACZ3M109	
		AAD limit = 124.88169 μA AAD limit conversion for command input = = 2048 + int[124.88169 / 605.765 μA * 2047] = 2469 <dec> = 9A5 <hex>		
	ET=+ UT=+00.00.02	Execute Telecommand ARADupdRMB AAD1curr th <i>Command Parameter(s) :</i> AradUpd DF86Cmd AH8A1001 Enable 86 AradUPd DD86Cmd AH8A2001 Enable 86 AradUpd AAD AHFA6001 0995 <hex> <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) Update ARAD parameters - ARADupdRMB AAD1curr th	ACZ7G109	
	ET=+ UT=+00.00.02	Execute Telecommand Fire Update ARAD param <i>Command Parameter(s) :</i> FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Update ARAD param	ACZ3M109	

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (ESOC Simulator)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand ARADupdRMB AAD2curr th Command Parameter(s) : AradUpd DF86Cmd AH8A1001 AradUPd DD86Cmd AH8A2001 AradUpd AAD AHFA6001 Subsch. ID : 20 Det. descr. : TC(8,1) Update ARAD parameters - ARADupdRMB AAD2curr th	ACZ8G109 Enable 86 Enable 86 0995 <hex>	
	ET=+ UT=+00.00.02	Execute Telecommand Fire Update ARAD param Command Parameter(s) : FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Update ARAD param	ACZ3M109 Enable 86 Enable 86	
	ET=+ UT=+00.00.10	Execute Telecommand Get RM-B status Command Parameter(s) : RMStat DF86Cmd AH841001 RMStat DD86Cmd AH842001 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-B status	ACZZ5109 Enable 86 Enable 86	
3.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry CRS1-XUpLimit AEW3A109	= 0.31993 V	AND=ZAAM0999
		Verify Telemetry CRS1-XLowLimit AEW3B109	= -0.3201 V	AND=ZAAM0999
		Verify Telemetry CRS1-YUpLimit AEW3C109	= 0.31864 V	AND=ZAAM0999
		Verify Telemetry CRS1-YLowLimit AEW3D109	= -0.31882 V	AND=ZAAM0999
		Verify Telemetry CRS1-ZUpLimit AEW3E109	= 0.31864 V	AND=ZAAM0999
		Verify Telemetry CRS1-ZLowLimit AEW3F109	= -0.31882 V	AND=ZAAM0999
		Verify Telemetry CRS2-XUpLimit AEW3G109	= 0.31993 V	AND=ZAAM0999
		Verify Telemetry CRS2-XLowLimit AEW3H109	= 0.3201 V	AND=ZAAM0999

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (25/04/10) of ESOC (Simulator))
 File: H_GSP_AOC_2RMS.xls
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry LCT Enable AEW02109	= DISABLED	AND=ZAAM1999
		Verify Telemetry SW Enable AEW03109	= ENABLED	AND=ZAAM1999
5		Update RMH Status Register on RM B		Next Step: 6
5.1		Uplink Commands		<input type="checkbox"/>
	ET=+ UT=+00.00.05	Execute Telecommand Load Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M2109 Memory Data 32 AH6M6109 Memory Checksum AH6M7109 Subsch. ID : 20 Det. descr. : TC(6,2) Load Memory Using Absolute Addresses	AC062109 00F0 <hex> 5840 <hex> 4 <dec> (Def) 00000005 <hex> D465 <hex>	
	ET=+ UT=+00.00.05	Execute Telecommand Get RM-B status Command Parameter(s) : RMStat DF86Cmd AH841001 RMStat DD86Cmd AH842001 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-B status	ACZZ5109 Enable 86 Enable 86	
5.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry RMH_STAT AEW00109	= 5 <hex>	AND=ZAAM1999
		Verify Telemetry RMH Enable AEW01109	= ENABLED	AND=ZAAM1999
		Verify Telemetry LCT Enable AEW02109	= DISABLED	AND=ZAAM1999
		Verify Telemetry SW Enable AEW03109	= ENABLED	AND=ZAAM1999
6		Correct RMH Monitor Inputs on RM A		Next Step: 7
6.1		Uplink Commands		<input type="checkbox"/>

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (ESOC Simulator)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.05	Execute Telecommand Load Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M2109 Memory Data 32 AH6M6109 Memory Checksum AH6M7109 Subsch. ID : 20 Det. descr. : TC(6,2) Load Memory Using Absolute Addresses	AC062109 00C0 <hex> 58F4 <hex> 4 <dec> (Def) 0000A8F4 <hex> BF8C <hex>	
	ET=+ UT=+00.00.05	Execute Telecommand Get RM-A status Command Parameter(s) : RMStat DF86Cmd AH841001 RMStat DD86Cmd AH842001 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-A status	ACZZ4109 Enable 86 Enable 86	
6.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry RMH_MSTAT AEW04109	= 0000A8F4 <hex>	AND=ZAAM1999
		Verify Telemetry Cont save inter AEW05109	= Inactive	AND=ZAAM1999
		Verify Telemetry RMA WD toggle AEW06109	= 1 <dec>	AND=ZAAM1999
		Verify Telemetry PMA Bit 0 sts AEW07109	= RESET	AND=ZAAM1999
		Verify Telemetry ColdConvBpwrSts AEW08109	= OFF	AND=ZAAM1999
		Verify Telemetry ColdConvApwrSts AEW09109	= ON	AND=ZAAM1999
		Verify Telemetry MM2 Pwr Status AEW0A109	= OFF	AND=ZAAM1999
		Verify Telemetry MM1 Pwr Status AEW0B109	= OFF	AND=ZAAM1999
		Verify Telemetry PMA Bit 1 sts AEW0C109	= SET	AND=ZAAM1999
		Verify Telemetry RMB Undervoltag AEW0D109	= NoUVD	AND=ZAAM1999
		Verify Telemetry RMB Enable AEW0E109	= ENABLED	AND=ZAAM1999

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on of ESOC Simulator)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry RMA Enable AEW0F109	= ENABLED	AND=ZAAM1999
		Verify Telemetry WD A Enable AEW0G109	= ENABLED	AND=ZAAM1999
		Verify Telemetry Select PM AEW0H109	= A	AND=ZAAM1999
7		Correct RMH Monitor Inputs on RM B		Next Step: 8
7.1		Uplink Commands		<input type="checkbox"/>
	ET=+ UT=+00.00.05	Execute Telecommand Load Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M2109 Memory Data 32 AH6M6109 Memory Checksum AH6M7109 Subsch. ID : 20 Det. descr. : TC(6,2) Load Memory Using Absolute Addresses	AC062109 00F0 <hex> 58F4 <hex> 4 <dec> (Def) 000088F0 <hex> F9EE <hex>	
	ET=+ UT=+00.00.05	Execute Telecommand Get RM-B status Command Parameter(s) : RMStat DF86Cmd AH841001 RMStat DD86Cmd AH842001 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-B status	ACZZ5109 Enable 86 Enable 86	
7.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry RMH_MSTAT AEW04109	= 0000A8F4 <hex>	AND=ZAAM1999
		Verify Telemetry Cont save inter AEW05109	= Inactive	AND=ZAAM1999
		Verify Telemetry RMA WD toggle AEW06109	= 1 <dec>	AND=ZAAM1999
		Verify Telemetry PMA Bit 0 sts AEW07109	= SET	AND=ZAAM1999
		Verify Telemetry ColdConvBpwrSts AEW08109	= OFF	AND=ZAAM1999

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on of the ESOC Simulator)
 File: H_GSP_AOC_2RMS.xls
 Author: dsalt-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry ColdConvApwrSts	AEW09109 = ON	AND=ZAAM1999
		Verify Telemetry MM2 Pwr Status	AEW0A109 = OFF	AND=ZAAM1999
		Verify Telemetry MM1 Pwr Status	AEW0B109 = OFF	AND=ZAAM1999
		Verify Telemetry PMA Bit 1 sts	AEW0C109 = SET	AND=ZAAM1999
		Verify Telemetry RMB Undervoltag	AEW0D109 = NoUVD	AND=ZAAM1999
		Verify Telemetry RMB Enable	AEW0E109 = ENABLED	AND=ZAAM1999
		Verify Telemetry RMA Enable	AEW0F109 = ENABLED	AND=ZAAM1999
		Verify Telemetry WD A Enable	AEW0G109 = ENABLED	AND=ZAAM1999
		Verify Telemetry Select PM	AEW0H109 = A	AND=ZAAM1999
8		Disable TC check (FCV Arm Switch Disabled)		Next Step: 9
		Execute Telecommand DisChkFCV armed FID 141 Command Parameter(s) : DisChk DF86Cmd AH8C1001 DisChk DD86Cmd AH8C2001 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 20 Det. descr. : TC(8,1)- Disable Command check- DisChkFCV armed FID 141	ACZAZ109 Enable 86 Enable 86	
		Execute Telecommand Fire Disable Check Command Parameter(s) : FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Disable Check	ACZ7M109 Enable 86 Enable 86	

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (Herschel ESOC Simulator)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
9		Set Default Nominal Configuration on RM A		Next Step: 10
9.1		Uplink Commands		<input type="checkbox"/>
		Execute Telecommand RMA_SAS1N-2N_CRSx_RCSA	ACY60109	
		Command Parameter(s) : NomConf DF86Cmd AH8N1001 Enable 86 NomConf DD86Cmd AH8N2001 Enable 86		
		TC Control Flags : GBM IL DSE --Y -- --		
		Subsch. ID : 20 Det. descr. : TC(8,1) Mod Nom Conf - RMA_SAS1N-2N_CRSx_RCSA		
	ET=+ UT=+00.00.05	Execute Telecommand Get RM-A status	ACZZ4109	
		Command Parameter(s) : RMStat DF86Cmd AH841001 Enable 86 RMStat DD86Cmd AH842001 Enable 86		
		Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-A status		
9.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry NOM CONF USE AEW2L109	= 2 <dec>	AND=ZAAM0999
		Verify Telemetry Nom Conf Parity AEW2N109	= 0 <dec>	AND=ZAAM0999
		Verify Telemetry Nom Conf SAS AEW2P109	= 0 <dec>	AND=ZAAM0999
		Verify Telemetry Nom Conf SAS1 AEW2R109	= NOMINAL	AND=ZAAM0999
		Verify Telemetry Nom Conf SAS2 AEW2S109	= NOMINAL	AND=ZAAM0999
		Verify Telemetry Nom Conf Reserv AEW2T109	= 0 <dec>	AND=ZAAM0999
		Verify Telemetry Nom Conf RCS AEW2U109	= RCS-A	AND=ZAAM0999
10		Set Default Nominal Configuration on RM B		Next Step: 11

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (ESOC Simulator)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
10.1		Uplink Commands		<input type="checkbox"/>
		Execute Telecommand RMB_SAS1N-2N_CRSx_RCSA Command Parameter(s) : NomConf DF86Cmd AH8N1001 NomConf DD86Cmd AH8N2001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,1) Mod Nom Conf - RMB_SAS1N-2N_CRSx_RCSA	ACY68109 Enable 86 Enable 86	
	ET=+ UT=+00.00.05	Execute Telecommand Get RM-B status Command Parameter(s) : RMStat DF86Cmd AH841001 RMStat DD86Cmd AH842001 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-B status	ACZZ5109 Enable 86 Enable 86	
10.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry NOM CONF USE AEW2L109	= 2 <dec>	AND=ZAAM0999
		Verify Telemetry Nom Conf Parity AEW2N109	= 0 <dec>	AND=ZAAM0999
		Verify Telemetry Nom Conf SAS AEW2P109	= 0 <dec>	AND=ZAAM0999
		Verify Telemetry Nom Conf SAS1 AEW2R109	= NOMINAL	AND=ZAAM0999
		Verify Telemetry Nom Conf SAS2 AEW2S109	= NOMINAL	AND=ZAAM0999
		Verify Telemetry Nom Conf Reserv AEW2T109	= 0 <dec>	AND=ZAAM0999
		Verify Telemetry Nom Conf RCS AEW2U109	= RCS-A	AND=ZAAM0999
11		Enable TC check (FCV Arm Switch Disabled)		Next Step: 12

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on of the instrument ESOC simulator)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand EnaChkFCV armed FID 141 Command Parameter(s) : EnaChck DF86Cmd AH8F3001 EnaChck DD86Cmd AH8F4001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,1) - Enable Command check - EnaChkFCV armed FID 141	ACZFW109 Enable 86 Enable 86	
12		Set Default Survival Configuration on RM A		Next Step: 13
12.1		Uplink Commands		<input type="checkbox"/>
		Execute Telecommand SAS-RR CRS2 RCSB 3 RMA Command Parameter(s) : SMConf DF86 Cmd AH8S1001 SMConf DD86 Cmd AH8S2001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,1) modify SM conf THR Level 3 - SAS RR CRS2 RCSB 3 RMA	ACYWH109 Enable 86 Enable 86	
	ET=+ UT=+00.00.05	Execute Telecommand Get RM-A status Command Parameter(s) : RMStat DF86Cmd AH841001 RMStat DD86Cmd AH842001 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-A status	ACZZ4109 Enable 86 Enable 86	
12.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry SURV CONF USE AEW33109	= 233 <dec>	AND=ZAAM0999
		Verify Telemetry Surv Conf Parity AEW39109	= 1 <dec>	AND=ZAAM0999
		Verify Telemetry Surv Conf SAS AEW34109	= 3 <dec>	AND=ZAAM0999
		Verify Telemetry Surv Conf SAS1 AEW35109	= REDUNDANT	AND=ZAAM0999

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on of the Herschel ESOC Simulator)
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 Author: dsalt-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Surv Conf SAS2 AEW36109	= REDUNDANT	AND=ZAAM0999
		Verify Telemetry Surv Conf CRS AEW37109	= CRS-2	AND=ZAAM0999
		Verify Telemetry Surv Conf RCS AEW38109	= RCS-B	AND=ZAAM0999
13		Set Default Survival Configuration on RM B		Next Step: 14
13.1		Uplink Commands		☐
		Execute Telecommand SAS-RR CRS2 RCSB 3 RMB Command Parameter(s) : SMConf DF86 Cmd AH8S1001 Enable 86 SMConf DD86 Cmd AH8S2001 Enable 86 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 20 Det. descr. : TC(8,1) modify SM conf THR Level 3 - SAS RR CRS2 RCSB 3 RMB	ACYXJ109	
	ET=+ UT=+00.00.05	Execute Telecommand Get RM-B status Command Parameter(s) : RMStat DF86Cmd AH841001 Enable 86 RMStat DD86Cmd AH842001 Enable 86 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-B status	ACZZ5109	
13.2		Verify Status		☐
		Verify Telemetry SURV CONF USE AEW33109	= 233 <dec>	AND=ZAAM0999
		Verify Telemetry Surv Conf Parity AEW39109	= 1 <dec>	AND=ZAAM0999
		Verify Telemetry Surv Conf SAS AEW34109	= 3 <dec>	AND=ZAAM0999
		Verify Telemetry Surv Conf SAS1 AEW35109	= REDUNDANT	AND=ZAAM0999
		Verify Telemetry Surv Conf SAS2 AEW36109	= REDUNDANT	AND=ZAAM0999

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on of the ESOC Simulator)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry MiscCfg SepOver AEW32109	= No_Override	AND=ZAAM0999
15		Set Miscelaneous Configuration on RM B		Next Step: 16
15.1		Uplink Commands		□
		Execute Telecommand Use both SGM RM-B Command Parameter(s) : ACCCnf DF86 Cmd AH831001 ACCCnf DD86 Cmd AH832001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,1) - SELECT ACC - Use both SGM RM-B	ACYLX109 Enable 86 Enable 86	
	ET=+ UT=+00.00.05	Execute Telecommand Get RM-B status Command Parameter(s) : RMStat DF86Cmd AH841001 RMStat DD86Cmd AH842001 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-B status	ACZZ5109 Enable 86 Enable 86	
15.2		Verify Status		□
		Verify Telemetry MISC CONFIG AEW2V109	= 28700 <dec>	AND=ZAAM0999
		Verify Telemetry MiscCfg ThrstLev AEW2W109	= 3 <dec>	AND=ZAAM0999
		Verify Telemetry MiscCfg Parity AEW2X109	= 1 <dec>	AND=ZAAM0999
		Verify Telemetry MiscCfg Test DW AEW2Z109	= Suppressed	AND=ZAAM0999
		Verify Telemetry MiscCfg SGM use AEW30109	= SGMA+SGMB	AND=ZAAM0999
		Verify Telemetry MiscCfg Reserv AEW31109	= 0 <dec>	AND=ZAAM0999
		Verify Telemetry MiscCfg SepOver AEW32109	= No_Override	AND=ZAAM0999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
16		Correct Alarm Polarity Settings on RM A		Next Step: 17
16.1		Uplink Commands		<input type="checkbox"/>
	ET=+ UT=+00.00.05	Execute Telecommand <p style="text-align: center;">SetAlarmPolarity RMA</p> Command Parameter(s) : AlarmPolF86Cmd AH8H3001 Enable 86 AlarmPolDD86Cmd AH8H4001 Enable 86 AlmPol WD Togg AHF81001 0 <dec> AlarmPol CRS1 AHF82001 1 <dec> AlarmPol CRS2 AHF83001 1 <dec> AlarmPol CRS3 AHF84001 1 <dec> AlarmPol AAD1 AHF85001 0 <dec> AlarmPol AAD2 AHF86001 0 <dec> AlmPol SepStr1 AHF87001 0 <dec> AlmPol SepStr2 AHF88001 0 <dec> AlmPol Extrnl7 AHG8A001 0 <dec> AlmPol PMASyEr AHG8B001 1 <dec> AlmPol PMAA1A1 AHG8C001 0 <dec> AlarmPol PMAUnV AHG8D001 1 <dec> AlmPol PMASwA1 AHG8E001 0 <dec> AlmPol PMBSyEr AHG8F001 1 <dec> AlmPol PMBALA1 AHG8G001 0 <dec> AlarmPol PMBUnV AHG8H001 1 <dec> AlmPol PMBSwA1 AHH81001 0 <dec> AlarmPol Sel PM AHH82001 0 <dec> AlmPol NotUse1 AHH83001 0 <dec> AlmPol NotUse2 AHH84001 0 <dec> AlmPol NotUse3 AHH85001 0 <dec> AlarmPol WD Ena AHH86001 0 <dec> Subsch. ID : 20 Det. descr. : TC(8,1) SET ALRM - SetAlarmPolarity RMA	ACZWA109	
	ET=+ UT=+00.00.02	Execute Telecommand <p style="text-align: center;">Fire SetRMAlarmPolarity</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire SetRMAlarmPolarity	ACZ3N109	
	ET=+ UT=+00.00.05	Execute Telecommand <p style="text-align: center;">Get RM-A status</p> Command Parameter(s) : RMStat DF86Cmd AH841001 Enable 86 RMStat DD86Cmd AH842001 Enable 86 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-A status	ACZZ4109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
16.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry APOL WD AEW4G109	= High	AND=ZAAM2999
		Verify Telemetry APOL CRS1 AEW4H109	= Low	AND=ZAAM2999
		Verify Telemetry APOL CRS2 AEW4J109	= Low	AND=ZAAM2999
		Verify Telemetry APOL CRS3 AEW4K109	= Low	AND=ZAAM2999
		Verify Telemetry APOL AAD1 AEW4L109	= High	AND=ZAAM2999
		Verify Telemetry APOL AAD2 AEW4M109	= High	AND=ZAAM2999
		Verify Telemetry APOL Strap1 AEW4N109	= High	AND=ZAAM2999
		Verify Telemetry APOL Strap2 AEW4P109	= High	AND=ZAAM2999
		Verify Telemetry APOL Ext8 AEW4R109	= High	AND=ZAAM2999
		Verify Telemetry APOL PMA CPU AEW4S109	= Low	AND=ZAAM2999
		Verify Telemetry APOL PMA COCOS AEW4T109	= High	AND=ZAAM2999
		Verify Telemetry APOL PMA UVD AEW4U109	= Low	AND=ZAAM2999
		Verify Telemetry APOL PMA SW AEW4V109	= High	AND=ZAAM2999
		Verify Telemetry APOL PMB CPU AEW4W109	= Low	AND=ZAAM2999
		Verify Telemetry APOL PMB COCOS AEW4X109	= High	AND=ZAAM2999
		Verify Telemetry APOL PMB UVD AEW4Y109	= Low	AND=ZAAM2999
		Verify Telemetry APOL PMB SW AEW4Z109	= High	AND=ZAAM2999
		Verify Telemetry APOL PM Select AEW50109	= High	AND=ZAAM2999
		Verify Telemetry APOL WD Enable AEW51109	= High	AND=ZAAM2999

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on the ESOC simulator)
 File: H_GSP_AOC_2RMS.xls
 Author: dsalt-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
17		Correct Alarm Polarity Settings on RM B		Next Step: 18
17.1		Uplink Commands		<input type="checkbox"/>
	ET=+ UT=+00.00.05	Execute Telecommand SetAlarmPolarity RMB Command Parameter(s) : AlarmPolF86Cmd AH8H3001 Enable 86 AlarmPolDD86Cmd AH8H4001 Enable 86 AlmPol WD Togg AHF81001 0 <dec> AlarmPol CRS1 AHF82001 1 <dec> AlarmPol CRS2 AHF83001 1 <dec> AlarmPol CRS3 AHF84001 1 <dec> AlarmPol AAD1 AHF85001 0 <dec> AlarmPol AAD2 AHF86001 0 <dec> AlmPol SepStr1 AHF87001 0 <dec> AlmPol SepStr2 AHF88001 0 <dec> AlmPol Extrnl7 AHG8A001 0 <dec> AlmPol PMASyEr AHG8B001 1 <dec> AlmPol PMAA1A1 AHG8C001 0 <dec> AlarmPol PMAUnV AHG8D001 1 <dec> AlmPol PMASwAl AHG8E001 0 <dec> AlmPol PMBSyEr AHG8F001 1 <dec> AlmPol PMBALA1 AHG8G001 0 <dec> AlarmPol PMBUnV AHG8H001 1 <dec> AlmPol PMBSwAl AHH81001 0 <dec> AlarmPol Sel PM AHH82001 0 <dec> AlmPol NotUse1 AHH83001 0 <dec> AlmPol NotUse2 AHH84001 0 <dec> AlmPol NotUse3 AHH85001 0 <dec> AlarmPol WD Ena AHH86001 0 <dec> Subsch. ID : 20 Det. descr. : TC(8,1) SET ALRM - SetAlarmPolarity RMB	ACZWB109	
	ET=+ UT=+00.00.02	Execute Telecommand Fire SetRMAlarmPolarity Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire SetRMAlarmPolarity	ACZ3N109	
	ET=+ UT=+00.00.05	Execute Telecommand Get RM-B status Command Parameter(s) : RMStat DF86Cmd AH841001 Enable 86 RMStat DD86Cmd AH842001 Enable 86 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-B status	ACZZ5109	

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on of ESOC simulator)
 File: H_GSP_AOC_2RMS.xls
 Author: dsalt-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
17.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry APOL WD AEW4G109	= High	AND=ZAAM2999
		Verify Telemetry APOL CRS1 AEW4H109	= Low	AND=ZAAM2999
		Verify Telemetry APOL CRS2 AEW4J109	= Low	AND=ZAAM2999
		Verify Telemetry APOL CRS3 AEW4K109	= Low	AND=ZAAM2999
		Verify Telemetry APOL AAD1 AEW4L109	= High	AND=ZAAM2999
		Verify Telemetry APOL AAD2 AEW4M109	= High	AND=ZAAM2999
		Verify Telemetry APOL Strap1 AEW4N109	= High	AND=ZAAM2999
		Verify Telemetry APOL Strap2 AEW4P109	= High	AND=ZAAM2999
		Verify Telemetry APOL Ext8 AEW4R109	= High	AND=ZAAM2999
		Verify Telemetry APOL PMA CPU AEW4S109	= Low	AND=ZAAM2999
		Verify Telemetry APOL PMA COCOS AEW4T109	= High	AND=ZAAM2999
		Verify Telemetry APOL PMA UVD AEW4U109	= Low	AND=ZAAM2999
		Verify Telemetry APOL PMA SW AEW4V109	= High	AND=ZAAM2999
		Verify Telemetry APOL PMB CPU AEW4W109	= Low	AND=ZAAM2999
		Verify Telemetry APOL PMB COCOS AEW4X109	= High	AND=ZAAM2999
		Verify Telemetry APOL PMB UVD AEW4Y109	= Low	AND=ZAAM2999
		Verify Telemetry APOL PMB SW AEW4Z109	= High	AND=ZAAM2999
		Verify Telemetry APOL PM Select AEW50109	= High	AND=ZAAM2999
		Verify Telemetry APOL WD Enable AEW51109	= High	AND=ZAAM2999

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (2nd cycle of ESOC Simulator)
 File: H_GSP_AOC_2RMS.xls
 Author: dsalt-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
18		Correct Alarm Enabled Settings on RM A		Next Step: 19
18.1		Uplink Commands		<input type="checkbox"/>
	ET=+ UT=+00.00.05	Execute Telecommand <p style="text-align: center;">Set RMA Alarms</p> Command Parameter(s) : SetAlm DF86Cmd AH8G3001 Enable 86 SetAlm DD86Cmd AH8G4001 Enable 86 SetAlm WD Togg AHJ81001 1 <dec> SetAlarm CRS1 AHJ82001 1 <dec> SetAlarm CRS2 AHJ83001 0 <dec> SetAlarm CRS3 AHJ84001 0 <dec> SetAlarm AAD1 AHJ85001 1 <dec> SetAlarm AAD2 AHJ86001 1 <dec> SetAlm SepStr1 AHJ87001 1 <dec> SetAlm SepStr2 AHJ88001 1 <dec> SetAlm Extrnl7 AHG81001 1 <dec> SetAlm PMASyEr AHG82001 1 <dec> SetAlm PMAALAl AHG83001 1 <dec> SetAlarm PMAUnV AHG84001 1 <dec> SetAlm PMASwAl AHG85001 1 <dec> SetAlm PMBSyEr AHG86001 1 <dec> SetAlm PMBALAl AHG87001 1 <dec> SetAlarm PMBUnV AHG88001 1 <dec> SetAlm PMBSwAl AHL81001 1 <dec> SetAlarm Sel PM AHL82001 1 <dec> SetAlm NotUse1 AHL83001 1 <dec> SetAlm NotUse2 AHL84001 1 <dec> SetAlm NotUse3 AHL85001 1 <dec> SetAlarm WD Ena AHL86001 1 <dec> Subsch. ID : 20 Det. descr. : TC(8,1) SET RM ALARM - Set RMA Alarms	ACZWL109	
	ET=+ UT=+00.00.02	Execute Telecommand <p style="text-align: center;">Fire Set RM Alarm</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Set RM Alarm	ACZ5N109	
	ET=+ UT=+00.00.05	Execute Telecommand <p style="text-align: center;">Get RM-A status</p> Command Parameter(s) : RMStat DF86Cmd AH841001 Enable 86 RMStat DD86Cmd AH842001 Enable 86 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-A status	ACZZ4109	

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (Herschel ESOC Simulator)
 File: H_GSP_AOC_2RMS.xls
 Author: dsalt-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
18.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry AENSET WD AEW5A109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET CRS1 AEW5B109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET CRS2 AEW5C109	= DISABLED	AND=ZAAM2999
		Verify Telemetry AENSET CRS3 AEW5D109	= DISABLED	AND=ZAAM2999
		Verify Telemetry AENSET AAD1 AEW5E109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET AAD2 AEW5F109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET Strap1 AEW5G109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET Strap2 AEW5H109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET Ext8 AEW5J109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMA CPU AEW5K109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMACOCOS AEW5L109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMA UVD AEW5M109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMA SW AEW5N109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMB CPU AEW5P109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMBCOCOS AEW5R109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMB UVD AEW5S109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMB SW AEW5T109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMSelect AEW5U109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET WDEnable AEW5V109	= ENABLED	AND=ZAAM2999

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (2nd cycle of ESOC Simulator)
 File: H_GSP_AOC_2RMS.xls
 Author: dsalt-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
19		Correct Alarm Enabled Settings on RM B		Next Step: 20
19.1		Uplink Commands		<input type="checkbox"/>
	ET=+ UT=+00.00.05	Execute Telecommand <p style="text-align: center;">Set RMB Alarms</p> Command Parameter(s) : SetAlm DF86Cmd AH8G3001 Enable 86 SetAlm DD86Cmd AH8G4001 Enable 86 SetAlm WD Togg AHJ81001 1 <dec> SetAlarm CRS1 AHJ82001 1 <dec> SetAlarm CRS2 AHJ83001 0 <dec> SetAlarm CRS3 AHJ84001 0 <dec> SetAlarm AAD1 AHJ85001 1 <dec> SetAlarm AAD2 AHJ86001 1 <dec> SetAlm SepStr1 AHJ87001 1 <dec> SetAlm SepStr2 AHJ88001 1 <dec> SetAlm Extrnl7 AHG81001 1 <dec> SetAlm PMASyEr AHG82001 1 <dec> SetAlm PMAALAl AHG83001 1 <dec> SetAlarm PMAUnV AHG84001 1 <dec> SetAlm PMASwAl AHG85001 1 <dec> SetAlm PMBSyEr AHG86001 1 <dec> SetAlm PMBALAl AHG87001 1 <dec> SetAlarm PMBUnV AHG88001 1 <dec> SetAlm PMBSwAl AHL81001 1 <dec> SetAlarm Sel PM AHL82001 1 <dec> SetAlm NotUse1 AHL83001 1 <dec> SetAlm NotUse2 AHL84001 1 <dec> SetAlm NotUse3 AHL85001 1 <dec> SetAlarm WD Ena AHL86001 1 <dec> Subsch. ID : 20 Det. descr. : TC(8,1) SET RM ALARM - Set RMB Alarms	ACZWT109	
	ET=+ UT=+00.00.02	Execute Telecommand <p style="text-align: center;">Fire Set RM Alarm</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Set RM Alarm	ACZ5N109	
	ET=+ UT=+00.00.05	Execute Telecommand <p style="text-align: center;">Get RM-B status</p> Command Parameter(s) : RMStat DF86Cmd AH841001 Enable 86 RMStat DD86Cmd AH842001 Enable 86 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-B status	ACZZ5109	

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (Herschel ESOC Simulator)
 File: H_GSP_AOC_2RMS.xls
 Author: dsalt-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
19.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry AENSET WD AEW5A109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET CRS1 AEW5B109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET CRS2 AEW5C109	= DISABLED	AND=ZAAM2999
		Verify Telemetry AENSET CRS3 AEW5D109	= DISABLED	AND=ZAAM2999
		Verify Telemetry AENSET AAD1 AEW5E109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET AAD2 AEW5F109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET Strap1 AEW5G109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET Strap2 AEW5H109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET Ext8 AEW5J109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMA CPU AEW5K109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMACOCOS AEW5L109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMA UVD AEW5M109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMA SW AEW5N109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMB CPU AEW5P109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMBCOCOS AEW5R109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMB UVD AEW5S109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMB SW AEW5T109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET PMSelect AEW5U109	= ENABLED	AND=ZAAM2999
		Verify Telemetry AENSET WDEnable AEW5V109	= ENABLED	AND=ZAAM2999

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (ACMS) of ESOC (Emulator))
 File: H_GSP_AOC_2RMS.xls
 Author: dsalt-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
20		Correct Temporisation Delays on RM A		Next Step: 21
20.1		Uplink Commands		<input type="checkbox"/>
	ET=+ UT=+00.00.05	Execute Telecommand Load Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M2109 Memory Data 32 AH6M6109 Memory Checksum AH6M7109 Subsch. ID : 20 Det. descr. : TC(6,2) Load Memory Using Absolute Addresses	AC062109 00C0 <hex> 5918 <hex> 4 <dec> (Def) 0000F40A <hex> FA8F <hex>	
	ET=+ UT=+00.00.02	Execute Telecommand Load Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M2109 Memory Data 32 AH6M6109 Memory Checksum AH6M7109 Subsch. ID : 20 Det. descr. : TC(6,2) Load Memory Using Absolute Addresses	AC062109 00C0 <hex> 591C <hex> 4 <dec> (Def) 0000B70D <hex> D2F7 <hex>	
	ET=+ UT=+00.00.05	Execute Telecommand Get RM-A status Command Parameter(s) : RMStat DF86Cmd AH841001 RMStat DD86Cmd AH842001 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-A status	ACZZ4109 Enable 86 Enable 86	
20.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry RMH_TDLY6 AD010109	= 24985.7 <dec>	AND=ZAAM3999
		Verify Telemetry RMH_TDLY6_MSB AEXUL109	= 244 <dec>	AND=ZAAM3999
		Verify Telemetry RMH_TDLY6_LSB AEXUM109	= 10 <dec>	AND=ZAAM3999
		Verify Telemetry RMH_TDLY7 AD011109	= 149914.0 <dec>	AND=ZAAM3999

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (25.04.10) of ESOC (Emulator))
 File: H_GSP_AOC_2RMS.xls
 Author: dsalt-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry RMH_TDLY7_MSB AEXUN109	= 183 <dec>	AND=ZAAM3999
		Verify Telemetry RMH_TDLY7_LSB AEXUP109	= 13 <dec>	AND=ZAAM3999
21		Correct Temporisation Delays on RM B		Next Step: 22
21.1		Uplink Commands		<input type="checkbox"/>
	ET=+ UT=+00.00.05	Execute Telecommand Load Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M2109 Memory Data 32 AH6M6109 Memory Checksum AH6M7109 Subsch. ID : 20 Det. descr. : TC(6,2) Load Memory Using Absolute Addresses	AC062109 00F0 <hex> 5918 <hex> 4 <dec> (Def) 0000F40A <hex> FA8F <hex>	
	ET=+ UT=+00.00.02	Execute Telecommand Load Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M2109 Memory Data 32 AH6M6109 Memory Checksum AH6M7109 Subsch. ID : 20 Det. descr. : TC(6,2) Load Memory Using Absolute Addresses	AC062109 00F0 <hex> 591C <hex> 4 <dec> (Def) 0000B70D <hex> D2F7 <hex>	
	ET=+ UT=+00.00.05	Execute Telecommand Get RM-B status Command Parameter(s) : RMStat DF86Cmd AH841001 RMStat DD86Cmd AH842001 Subsch. ID : 20 Det. descr. : TC(8,1) - Get RM-B status	ACZZ5109 Enable 86 Enable 86	
21.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry RMH_TDLY6 AD010109	= 24985.7 <dec>	AND=ZAAM3999
		Verify Telemetry RMH_TDLY6_MSB AEXUL109	= 244 <dec>	AND=ZAAM3999

Herschel ACMS : Reconfiguration Module Setup (to be part of ACC power on (Herschel ESOC Simulator))
 File: H_GSP_AOC_2RMS.xls
 Author: dsalt-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry RMH_TDLY6_LSB AEXUM109	= 10 <dec>	AND=ZAAM3999
		Verify Telemetry RMH_TDLY7 AD011109	= 149914.0 <dec>	AND=ZAAM3999
		Verify Telemetry RMH_TDLY7_MSB AEXUN109	= 183 <dec>	AND=ZAAM3999
		Verify Telemetry RMH_TDLY7_LSB AEXUP109	= 13 <dec>	AND=ZAAM3999
22		Enable RMs		Next Step: END
22.1		Uplink Commands		<input type="checkbox"/>
	ET=+ UT=+00.00.05	Execute Telecommand Ext_ACC_RM_A_Enable Subsch. ID : 10 Det. descr. : External ACC RM A Enable - Mission Specific	DCM21170	
	ET=+ UT=+00.00.05	Execute Telecommand Ext_ACC_RM_B_Enable Subsch. ID : 10 Det. descr. : External ACC RM B Enable - Mission Specific	DCM24170	
22.2		Verify Status		<input type="checkbox"/>
		Verify Telemetry RMA_fromTTR-RMA AEE91050	= ENABLED	AND=ZAA07999
		Verify Telemetry RMA_fromTTR-RMB AEE92050	= ENABLED	AND=ZAA07999
		Verify Telemetry RMB_fromTTR-RMA AEE93050	= ENABLED	AND=ZAA07999
		Verify Telemetry RMB_fromTTR-RMB AEE94050	= ENABLED	AND=ZAA07999
End of Procedure				