

Update ACC CROME Registers ground image from memory dump  
File: H\_FCP\_OBS\_2451.xls  
Author: lstefanov-hp



## Procedure Summary

### Objectives

This Herschel OBSM nominal procedure is used to conduct the dump of the readable ACC CROME Registers. The procedure covers both ACC CROME A and B.

The ACC CROME Registers dump is commanded using TC(6,5) and the memory locations content is received on ground in TM(6,6) packets.

To be noted that for both register read and write activities, the access has to be done at Word level (32-bit access), with 32-bit address alignment.

The procedure uses a MOIS generated command sequence and not a command stack generated by OBSM.

### Summary of Constraints

ACC in Operational Mode

- Only one 32-bit register may be accessed per dump command
- All transfers must be 32-bit transfers (N must be a multiple of 4)
- All transfers must 32-bit aligned

Memory areas are dumped through TC(6,5); this TC will be delayed when there is an ongoing:

- TC(6,2) Load Memory Using Absolute Addresses
- TC(6,5) Dump Memory Using Absolute Addresses
- TC(6,9) Check Memory Using Absolute Addresses
- TC(8,4,1,1) Copy Memory

### Spacecraft Configuration

#### Start of Procedure

ACC in Operational Mode

#### End of Procedure

Same as start, except:  
- ACC CROME Registers dump executed

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

OFCP245E  
OFCP245G

### Referenced Displays

ANDs      GRDs      SLDs

### Configuration Control Information

Status : Version 4 - Unchanged  
Last Checkin: 10/04/09

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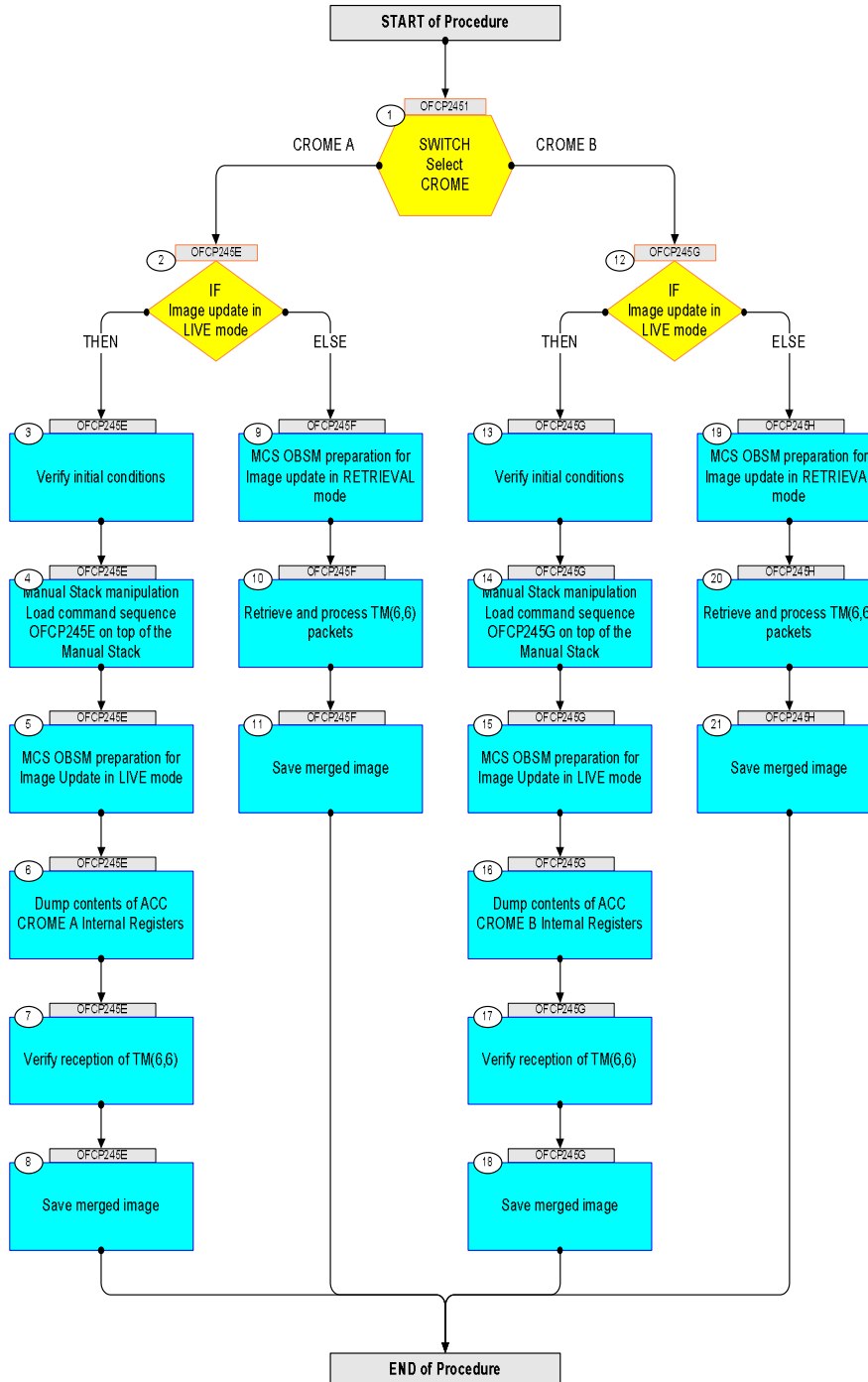


DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
13/01/09	2	1	Created	lstefanov-hp	
30/03/09		2	1. steps 7 and 17 updated in line with DB for ACMS OBS v.4.0.4	lstefanov-hp	
31/03/09		3	1. corrected typo in step 16 title: CROME A replaced by CROME B	lstefanov-hp	
10/04/09	2.3	4	1. removed 'Manual Dispatch' on all commands except the first one in each sequence	lstefanov-hp	

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## Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
<b>Beginning of Procedure</b>					
<b>OFCP2451</b> TC Seq. Name : OFCP2451 ( ACC CromeReg Dmp ) ACC CROME Registers Gnd image update via memory dump  TimeTag Type: Sub Schedule ID:  <input type="checkbox"/>					
1		SWITCH Select CROME  type: [Switch]		Next Step: CROME A 2 CROME B 12	
<b>End of Sequence</b>					
<b>OFCP245E</b> TC Seq. Name : OFCP245E ( ACC CromeAReg Dmp E ) ACC CROME A Registers Gnd image update in LIVE mode  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>					
2		IF Image update in LIVE mode  type: [If]		Next Step: THEN 3 ELSE 9	
3		Verify initial conditions		Next Step: 4	
		Check: - ACC in Operational Mode			
		ACMS SOE to confirm ACC mode			
4		Manual Stack manipulation Load command sequence OFCP245E on top of the Manual Stack		Next Step: 5	
4.1		Sequence data  FP: N/A TT: N/A			
5		MCS OBSM preparation for Image Update in LIVE mode		Next Step: 6	
		<b>Note:</b> It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS client. Starting the OBSM application is not covered by the current procedure.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
5.1		Select 'Image UPDATE' from the menu			
		Select the <b>Image</b> menu of the <i>OBSM Desktop</i> . From the Image menu, select <b>Update</b> . The 'Image Catalog' window opens.			
5.2		Select image to be updated			
		Select the image to be updated for the memory device <b>ACRMAREG</b> . The 'Image UPDATE' window opens.			
5.3		Start dump TM processing			
		In <b>LIVE</b> mode, processing of incoming real-time telemetry starts automatically after the image selection.			
6		Dump contents of ACC CROME A Internal Registers		Next Step: 7	
		<b>Uplink</b> the <b>AC063109</b> memory dump commands with <b>ARM-GO</b>			
		Note: The commands have Delta Release time. All TCs will be dispatched by <b>ARM-GO</b> .			
		For each command, a TM(6,6) packets must be received on ground.			
6.1		Clock and Reset Block Module			
		CAR Power On Reset Register [CAR_PwrOnRst]:			
		Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID            AH6M0109        00C0 <hex> Start Address        AH6M1109        0890 <hex> Length SAU            AH6M3109        4 <hex>  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
6.2		Memory Interface and Internal Bus Master Module			
		PIM Write Disable Status Register [PIM_WrDis]:			
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		PIM Scrubber Configuration Register [PIM_ScuCNFR]:			
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		PIM Scrubber Start Address [PIM_ScuSAR]:			
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		PIM Scrubber End Address [PIM_ScuEAR]:			
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		PIM Status Register [PIM_SR]:			
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
6.3		CPDM Selector Module			
		CSEL Status Register [CS_STAT]:			
	ET+= UT+=00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
6.4		Command Pulse Distribution Module			
		CPDM Status Report Register [CPDM_SRR]:			
	ET+= UT+=00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		CPDM Status Register [CPDM_SR]:			
	ET+= UT+=00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
6.5		Reconfiguration Module (RM) and RMHAB register area			
		RMH Status Register [RMH_STAT]:			
	ET+= UT+=00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Alarm Status Register [RMH_ASTAT]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Monitor Status Register [RMH_MSTAT]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Filtered Alarm Status Register [RMH_FSTAT]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH LOG Pointer Register [RMH_LOGPTR]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH AT Pointer Register [RMH_ATPTR]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH PAP Pointer Register [PAPPTR]:			



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	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH PKT Pointer Register [RMH_PKTPTR]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH PLT Pointer Register [RMH_PLTPTR]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Toggle Delay Register 0 [RMH_TGDLY0]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Toggle Delay Register 1 [RMH_TGDLY1]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Activation Delay Register [RMH_ADLY]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Retry Delay Register [RMH_RDLY]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Toggle Delay Select Register [RMH_TGSEL]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Alarm Polarity Register [RMH_APOL]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Mode Register [RMH_TM0D]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Vote Enable Register [RMH_VEN]:			

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	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Alarm Enable Set Register [RMH_AENSET]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 0 [RMH_TDLY0]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 1 [RMH_TDLY1]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 2 [RMH_TDLY2]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 3 [RMH_TDLY3]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 4 [RMH_TDLy4]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 5 [RMH_TDLy5]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 6 [RMH_TDLy6]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 7 [RMH_TDLy7]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 8 [RMH_TDLy8]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Attempt Count Register 0 [RMH_ATCNT0]:			
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Attempt Count Register 1 [RMH_ATCNT1]:			
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Attempt Count Register 2 [RMH_ATCNT2]:			
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Attempt Count Register 3 [RMH_ATCNT3]:			
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Attempt Count Register 4 [RMH_ATCNT4]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Attempt Count Register 5 [RMH_ATCNT5]:			
	ET+= UT+=00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Attempt Count Register 6 [RMH_ATCNT6]:			
	ET+= UT+=00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
6.6		Parallel IO Module			
		PIO IO Status Register [PIO_IOSR]:			
	ET+= UT+=00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
6.7		SpaceWire Module			
		SPW Link Status Register [SPW_SSR]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID           AH6M0109 Start Address       AH6M1109 Length SAU           AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
6.8		On Board Time Module			
		OBT Control Register [OBT_CTRL]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID           AH6M0109 Start Address       AH6M1109 Length SAU           AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
6.9		M1553 Module			
		M1553 Status Register [M5Stat]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID           AH6M0109 Start Address       AH6M1109 Length SAU           AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
7		Verify reception of TM(6,6)		Next Step: 8	
		<b>Note:</b> A TM(6,6) packets will be received for each memory dump command uplinked.			
		Verify Packet Reception  Memory Dump - Absolute Addresses - SAU 8 Packet Mnemonic :       MemDmpAbsAdd APID :                   512 Type :                    6 Subtype :                6 PI1 : PI2 :			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
7.1		Check OBSM dump packet processing			
		Check that the OBSM is processing the incoming memory dump packets.			
8		Save merged image		Next Step: END	
		Save merged image with <b>new ID</b> .			
End of Sequence					
<b>OFCP245F</b> <i>TC Seq. Name :OFCP245F ( ACC CromeAReg Dmp F )</i> ACC CROME A Registers Gnd image update in Retrieval mode  <i>TimeTag Type:</i> <i>Sub Schedule ID:</i>  <input type="checkbox"/>					
9		MCS OBSM preparation for Image update in RETRIEVAL mode		Next Step: 10	
		<b>Note:</b> It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS client. Starting the OBSM application is not covered by the current procedure.			
9.1		Select 'Image UPDATE' from the menu			
		Select the <b>Image</b> menu of the <b>OBSM Desktop</b> .  From the Image menu, select <b>Update</b> .  The 'Image Catalog' window opens.			
9.2		Select image to be updated			
		Select the image to be updated for the memory device <b>ACRMAREG</b> .  The 'Image UPDATE' window opens.			
9.3		Start dump TM packets processing			
		Set <b>retrieval start</b> and <b>stop time</b> and start retrieval of TM packets using the <b>PLAY</b> buttons.			



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
10		Retrieve and process TM(6,6) packets		Next Step: 11	
		Use the <b>STEP</b> button to retrieve and process the TM(6,6) packets, packet by packet and starting from the time shown in the packet time field.			
		OR			
		Use the <b>PLAY</b> button to retrieve and process the TM(6,6) packets in automated mode.  Pressing the PLAY button, the display will start to retrieve and process packets, starting from the time shown in the packet time field. This processing will stop automatically when a packet is received which creation time is greater than the one contained in the end time field.			
11		Save merged image		Next Step: END	
		Save merged image with <b>new ID</b> .			
End of Sequence					
	OFCP245G	<i>TC Seq. Name</i> : OFCP245G ( ACC CromeBReg Dmp G ) ACC CROME B Registers Gnd image update in LIVE mode  <i>TimeTag Type</i> : N <i>Sub Schedule ID</i> :  <input type="checkbox"/>			
12		IF Image update in LIVE mode  type: [If]		Next Step: THEN 13 ELSE 19	
13		Verify initial conditions		Next Step: 14	
		Check: - ACC in Operational Mode			
		ACMS SOE to confirm ACC mode			
14		Manual Stack manipulation Load command sequence OFCP245G on top of the Manual Stack		Next Step: 15	
14.1		Sequence data  FP: N/A TT: N/A			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
15		MCS OBSM preparation for Image Update in LIVE mode		Next Step: 16	
		<b>Note:</b> It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS client. Starting the OBSM application is not covered by the current procedure.			
15.1		Select 'Image UPDATE' from the menu			
		Select the <b>Image</b> menu of the <b>OBSM Desktop</b> .  From the Image menu, select <b>Update</b> .  The 'Image Catalog' window opens.			
15.2		Select image to be updated			
		Select the image to be updated for the memory device <b>ACRMBREG</b> .  The 'Image UPDATE' window opens.			
15.3		Start dump TM processing			
		In <b>LIVE</b> mode, processing of incoming real-time telemetry starts automatically after the image selection.			
16		Dump contents of ACC CROME B Internal Registers		Next Step: 17	
		<b>Uplink</b> the <b>AC063109</b> memory dump commands with <b>ARM-GO</b>			
		<b>Note:</b> The commands have Delta Release time. All TCs will be dispatched by <b>ARM-GO</b> .			
		For each command, a TM(6,6) packets must be received on ground.			
16.1		Clock and Reset Block Module			
		CAR Power On Reset Register [CAR_PwrOnRst]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">Dump Memory</p> Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
16.2		Memory Interface and Internal Bus Master Module			
		PIM Write Disable Status Register [PIM_WrDis]:			
	ET+= UT+=00.00.04	Execute Telecommand <p style="text-align: right;">Dump Memory</p> Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		PIM Scrubber Configuration Register [PIM_ScuCNFR]:			
	ET+= UT+=00.00.04	Execute Telecommand <p style="text-align: right;">Dump Memory</p> Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		PIM Scrubber Start Address [PIM_ScuSAR]:			
	ET+= UT+=00.00.04	Execute Telecommand <p style="text-align: right;">Dump Memory</p> Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		PIM Scrubber End Address [PIM_ScuEAR]:			
	ET+= UT+=00.00.04	Execute Telecommand <p style="text-align: right;">Dump Memory</p> Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		PIM Status Register [PIM_SR]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
16.3		CPDM Selector Module			
		CSEL Status Register [CS_STAT]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
16.4		Command Pulse Distribution Module			
		CPDM Status Report Register [CPDM_SRR]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		CPDM Status Register [CPDM_SR]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
16.5		Reconfiguration Module (RM) and RMHAB register area			
		RMH Status Register [RMH_STAT]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Alarm Status Register [RMH_ASTAT]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Monitor Status Register [RMH_MSTAT]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Filtered Alarm Status Register [RMH_FSTAT]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH LOG Pointer Register [RMH_LOGPTR]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH AT Pointer Register [RMH_ATPTR]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID           AH6M0109 Start Address       AH6M1109 Length SAU           AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH PAP Pointer Register [PAPPTR]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID           AH6M0109 Start Address       AH6M1109 Length SAU           AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH PKT Pointer Register [RMH_PKTPTR]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID           AH6M0109 Start Address       AH6M1109 Length SAU           AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH PLT Pointer Register [RMH_PLTPTR]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID           AH6M0109 Start Address       AH6M1109 Length SAU           AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Toggle Delay Register 0 [RMH_TGDLY0]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID           AH6M0109 Start Address       AH6M1109 Length SAU           AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Toggle Delay Register 1 [RMH_TGDLY1]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Activation Delay Register [RMH_ADLY]:			
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Retry Delay Register [RMH_RDLY]:			
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Toggle Delay Select Register [RMH_TGSEL]:			
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Alarm Polarity Register [RMH_APOL]:			
	ET=+ UT=+00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID            AH6M0109 Start Address        AH6M1109 Length SAU            AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Mode Register [RMH_TMOD]:			

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	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Vote Enable Register [RMH_VEN]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Alarm Enable Set Register [RMH_AENSET]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 0 [RMH_TDLY0]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 1 [RMH_TDLY1]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 2 [RMH_TDLY2]:			



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 3 [RMH_TDLY3]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 4 [RMH_TDLY4]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 5 [RMH_TDLY5]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 6 [RMH_TDLY6]:			
	ET+= UT+=00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 7 [RMH_TDLY7]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Temporisation Delay Register 8 [RMH_TDLY8]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Attempt Count Register 0 [RMH_ATCNT0]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Attempt Count Register 1 [RMH_ATCNT1]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Attempt Count Register 2 [RMH_ATCNT2]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Attempt Count Register 3 [RMH_ATCNT3]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Attempt Count Register 4 [RMH_ATCNT4]:			
	ET+= UT+=00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Attempt Count Register 5 [RMH_ATCNT5]:			
	ET+= UT+=00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
		RMH Attempt Count Register 6 [RMH_ATCNT6]:			
	ET+= UT+=00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
16.6		Parallel IO Module			
		PIO IO Status Register [PIO_IOSR]:			
	ET+= UT+=00.00.04	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
16.7		SpaceWire Module			
		SPW Link Status Register [SPW_SSR]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
16.8		On Board Time Module			
		OBT Control Register [OBT_CTRL]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
16.9		M1553 Module			
		M1553 Status Register [M5Stat]:			
	ET=+ UT=+00.00.04	Execute Telecommand  Dump Memory  Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109  Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
17		Verify reception of TM(6,6)		Next Step: 18	
		<b>Note:</b> A TM(6,6) packets will be received for each memory dump command uplinked.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Packet Reception  Memory Dump - Absolute Addresses - SAU 8 Packet Mnemonic : MemDmpAbsAdd APID : 512 Type : 6 Subtype : 6 PI1 : PI2 :			
17.1		Check OBSM dump packet processing			
		Check that the OBSM is processing the incoming memory dump packets.			
18		Save merged image		Next Step: END	
		Save merged image with <b>new ID</b> .			
End of Sequence					
<b>OFCP245H</b> TC Seq. Name : OFCP245H ( ACC CromeBReg Dmp H ) ACC CROME B Registers Gnd image update in Retrieval mode  TimeTag Type: Sub Schedule ID:  <input type="checkbox"/>					
19		MCS OBSM preparation for Image update in RETRIEVAL mode		Next Step: 20	
		<b>Note:</b> It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS client. Starting the OBSM application is not covered by the current procedure.			
19.1		Select 'Image UPDATE' from the menu			
		Select the <b>Image</b> menu of the <b>OBSM Desktop</b> .  From the Image menu, select <b>Update</b> .  The 'Image Catalog' window opens.			
19.2		Select image to be updated			
		Select the image to be updated for the memory device <b>ACRMBREG</b> .  The 'Image UPDATE' window opens.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
19.3		Start dump TM packets processing			
		Set <b>retrieval start</b> and <b>stop time</b> and start retrieval of TM packets using the <b>PLAY</b> buttons.			
20		Retrieve and process TM(6,6) packets		Next Step: 21	
		Use the <b>STEP</b> button to retrieve and process the TM(6,6) packets, packet by packet and starting from the time shown in the packet time field.			
		OR			
		Use the <b>PLAY</b> button to retrieve and process the TM(6,6) packets in automated mode.  Pressing the <b>PLAY</b> button, the display will start to retrieve and process packets, starting from the time shown in the packet time field. This processing will stop automatically when a packet is received which creation time is greater than the one contained in the end time field.			
21		Save merged image		Next Step: END	
		Save merged image with <b>new ID</b> .			
End of Sequence					
<b>End of Procedure</b>					