

Roll back after thermal control loop on board reconfiguration TCS
File: H_CRP_TCS_RLRB.xls
Author: E. Picallo



Procedure Summary

Objectives

This procedure describes the steps to be performed to roll back (undo) the on-board reconfiguration triggered after an on-board detection of a thermal control loop failure while on the TCS was configured on B side (Nominal heater groups [10 to 18])

Summary of Constraints

In case the Heater group included HCS dedicated to the decontamination, after the roll back it is up to Ground to resume decontamination if required.

Nominal heater groups [10 to 18]
Redundant heater groups [1 to 9]

Spacecraft Configuration

Start of Procedure

CDMU in default configuration;
Thermal Control Management function active;
One heater group set to the Redundant one and the Nominal one marked as Failed in the UIU table.

End of Procedure

CDMU in default configuration;
Thermal Control Management function active;
The heater group back to the Nominal one, the latter being marked as Not Failed in the UIU table.

Reference File(s)

Input Command Sequences

Output Command Sequences

HRTRLRB1
HRTRLRB2
HRTRLRB3
HRTRLRB4
HRTRLRB5
HRTRLRB6
HRTRLRB7
HRTRLRB8
HRTRLRB9

Referenced Displays

ANDs GRDs SLDs

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WAHT3584
 WAHT1584
 ZAZ7K999
 WAHT2584
 ZAZ7L999
 ZAZ85999

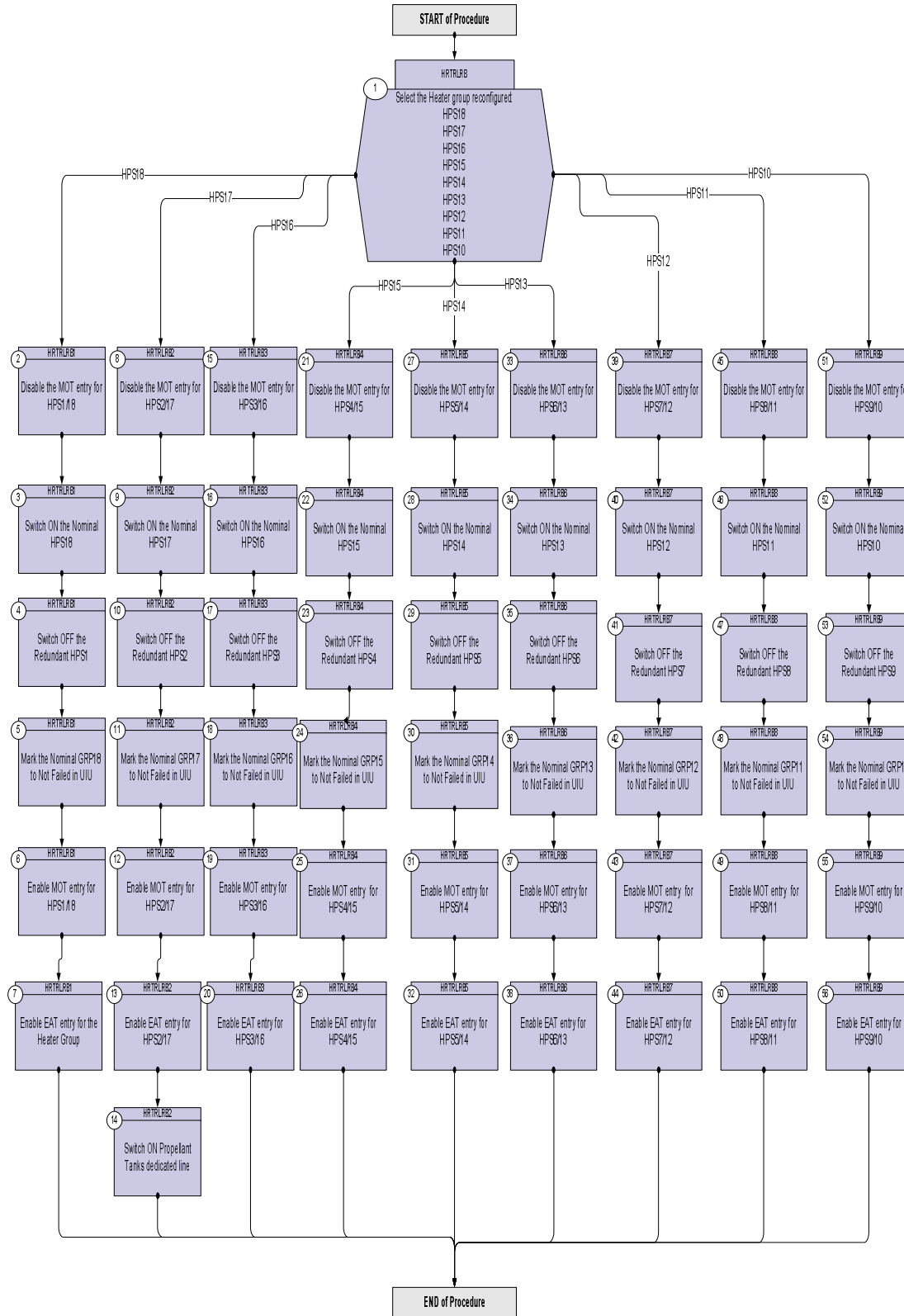
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
16/04/09	2.3	1	Created	E. Picallo	

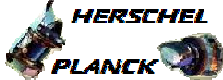

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Procedure Flowchart Overview



Roll back after thermal control loop on board reconfiguration TCS B
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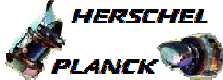

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
Beginning of Procedure					
<p>HRTRLRB</p> <p>TC Seq. Name :HRTRLRB (HPS RollbackCLreconB) Roll back after HPS related control loop on board reconfig TCS B</p> <p>TimeTag Type: N Sub Schedule ID:</p> <p style="text-align: center;">□</p>					
1		Select the Heater group reconfigured: HPS18 HPS17 HPS16 HPS15 HPS14 HPS13 HPS12 HPS11 HPS10 type: [Switch]		Next Step: HPS18 2 HPS17 8 HPS16 15 HPS15 21 HPS14 27 HPS13 33 HPS12 39 HPS11 45 HPS10 51	
End of Sequence					
<p>HRTRLRB1</p> <p>TC Seq. Name :HRTRLRB1 (HPS18RollbackCLrecon) Roll back after HPS18 related control loop on board recon TCS B</p> <p>TimeTag Type: N Sub Schedule ID:</p> <p style="text-align: center;">□</p>					
2		Disable the MOT entry for HPS1/18		Next Step: 3	
The monitoring ID / Heater Group allocation being: MonId 21 for GRP1/18					
2.1		Send TC(12,8) to acquire the current monitoring list			
<p>When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.</p>					
		Execute Telecommand <div style="text-align: right;">ReportMonitList</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
2.2		Verify that one or more TM(12,9) have been received			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
2.3		Arm Disable MOT			
		Execute Telecommand <div style="text-align: right;">ArmDisableMon</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Arm Disable On Board Monitoring, TC(8,4,106,1)	DC54F170	TC	
2.4		Send TC to disable HPS1 monitoring			
		Execute Telecommand <div style="text-align: right;">DisMonitOfParam_Templ</div> Command Parameter(s) : <div style="text-align: right;">N_Repetition DH041170 ParameterId DH042170 MonitorId DH043170</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : TEMPLATE Disable Monitoring of Parameter, TC(12,2)	DCT27170	TC	
2.5		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand <div style="text-align: right;">ReportMonitList</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
6.1		Send TC to enable HPS1/HPS18 monitoring			
		Execute Telecommand <p style="text-align: center;">EnabMonitOfParam_Templ</p> Command Parameter(s) : N_Repetition DH041170 1 <dec> (Def) ParameterId DH042170 2071 <dec> MonitorId DH043170 21 <dec> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Enable Monitoring of Parameter, TC(12,1)	DCT26170	TC	
6.2		Send TC(12,8) to acquire the current monitoring list			
		<p>When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.</p>			
		Execute Telecommand <p style="text-align: center;">ReportMonitList</p> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
6.3		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
7		Enable EAT entry for the Heater Group		Next Step: END	
		The Event ID / Heater Group allocation being: MondId 0x8013 for GRP1/18			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
7.1		Send TC to enable HPS1 EAT entry			
		Execute Telecommand <p style="text-align: right;">EnableActions</p> <p>Command Parameter(s) :</p> <p style="margin-left: 40px;">N_Repetition DH041170</p> <p style="margin-left: 40px;">APID_for_EAT_TC DH236170</p> <p style="margin-left: 40px;">EventId DH146170</p> <p>TC Control Flags :</p> <p style="margin-left: 40px;">GBM IL DSE</p> <p style="margin-left: 40px;">--Y -- ---</p> <p>Subsch. ID : 10</p> <p>Det. descr. : TEMPLATE Enable Actions TC(19,4)</p>	DCT84170	TC	
7.2		Send TC(19,6) to acquire the detection list			
		Report Event Detection List telecommand is a request for a complete detection list; when this request is received, one or more TM(19,7) are generated.			
		Execute Telecommand <p style="text-align: right;">ReptEvtActTable</p> <p>TC Control Flags :</p> <p style="margin-left: 40px;">GBM IL DSE</p> <p style="margin-left: 40px;">--Y -- ---</p> <p>Subsch. ID : 10</p> <p>Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)</p>	DCT86170	TC	
7.3		Verify that one or more TM(19,7) have been received			
		Verify Packet Reception TM 19-7 Event-Action Table Content Report Packet Mnemonic : EvtActTblRpt APID : 16 Type : 19 Subtype : 7 PI1 : PI2 :			
End of Sequence					
HRTRLRB2 TC Seq. Name : HRTRLRB2 (HPS17RollbackCLrecon) Roll back after HPS17 related control loop on board recon TCS B TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>					
8		Disable the MOT entry for HPS2/17		Next Step: 9	
The monitoring ID / Heater Group allocation being: MonId 27 for GRP2/17					

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
8.1		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand <div style="text-align: right;">ReportMonitList</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
8.2		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
8.3		Arm Disable MOT			
		Execute Telecommand <div style="text-align: right;">ArmDisableMon</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Arm Disable On Board Monitoring, TC(8,4,106,1)	DC54F170	TC	
8.4		Send TC to disable HPS2 monitoring			
		Execute Telecommand <div style="text-align: right;">DisMonitOfParam_Templ</div> Command Parameter(s) : <div style="text-align: right;">N_Repetition DH041170 1 <dec> (Def) ParameterId DH042170 2071 <dec> MonitorId DH043170 27 <dec></div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : TEMPLATE Disable Monitoring of Parameter, TC(12,2)	DCT27170	TC	

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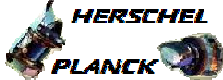

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
8.5		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand <div style="text-align: right;">ReportMonitList</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
9		Switch ON the Nominal HPS17		Next Step: 10	
		Execute Telecommand <div style="text-align: right;">PcduswOnHps17</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE -SY -- ---</div> Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On HPS 17	DCC17170	TC	
10		Switch OFF the Redundant HPS2		Next Step: 11	
		Execute Telecommand <div style="text-align: right;">PcduswOffHps2</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE -M- -- ---</div> Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off HPS 2	DCD28170	TC	
11		Mark the Nominal GRP17 to Not Failed in UIU		Next Step: 12	
		Execute Telecommand <div style="text-align: right;">MarkOKUnitB_Hps17</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE -E- -- ---</div> Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit B HPS17, TC(8,4,116,22)	DC98H170	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
11.1		Check successful modification in HK and UIU table			
		Verify Telemetry GRP17_HPS_STS WM92H565 = ON		AND=WAHT3584	
		Verify Telemetry GRP2_HPS_STS WM22G565 = OFF		AND=WAHT1584	
		Verify Telemetry Hps17FailSts DEG68170 = Not_Failed		AND=ZAZ7K999	
12		Enable MOT entry for HPS2/17		Next Step: 13	
		The monitoring ID / Heater Group allocation being: MonId 27 for GRP2/17			
12.1		Send TC to enable HPS2/HPS17 monitoring			
		Execute Telecommand EnabMonitOfParam_Templ DCT26170 Command Parameter(s) : N_Repetition DH041170 1 <dec> (Def) ParameterId DH042170 2071 <dec> MonitorId DH043170 27 <dec> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Enable Monitoring of Parameter, TC(12,1)		TC	
12.2		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand ReportMonitList DC20L170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data		TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
12.3		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
13		Enable EAT entry for HPS2/17		Next Step: 14	
		The Event ID / Heater Group allocation being: Mond 0x8023 for GRP2/17			
13.1		Send TC to enable HPS2 EAT entry			
		Execute Telecommand EnableActions Command Parameter(s) : N_Repetition DH041170 APID_for_EAT_TC DH236170 EventId DH146170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Enable Actions TC(19,4)	DCT84170	TC	
13.2		Send TC(19,6) to acquire the detection list			
		Report Event Detection List telecommand is a request for a complete detection list; when this request is received, one or more TM(19,7) are generated.			
		Execute Telecommand ReptEvtActTable TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	TC	
13.3		Verify that one or more TM(19,7) have been received			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Packet Reception TM 19-7 Event-Action Table Content Report Packet Mnemonic : EvtActTblRpt APID : 16 Type : 19 Subtype : 7 PI1 : PI2 :			
14		Switch ON Propellant Tanks dedicated line		Next Step: END	
		The HPS17HCS6 need to be switched back ON			
		Execute Telecommand SwOn_tanks_G17H6 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On Tanks Group 17 HCS 6	DCD20170	TC	
		Verify Telemetry tanks_G17H6_S WM91M565 = ON		AND=WAHT3584	
End of Sequence					
HRTRLRB3 TC Seq. Name : HRTRLRB3 (HPS16RollbackCLrecon) Roll back after HPS16 related control loop on board recon TCS B TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>					
15		Disable the MOT entry for HPS3/16		Next Step: 16	
		The monitoring ID / Heater Group allocation being: MonId 33 for GRP3/16			
15.1		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand ReportMonitList TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	

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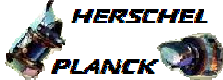

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
15.2		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
15.3		Arm Disable MOT			
		Execute Telecommand ArmDisableMon TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Arm Disable On Board Monitoring, TC(8,4,106,1)	DC54F170	TC	
15.4		Send TC to disable HPS3 monitoring			
		Execute Telecommand DisMonitOfParam_Templ Command Parameter(s) : N_Repetition DH041170 1 <dec> (Def) ParameterId DH042170 2072 <dec> MonitorId DH043170 33 <dec> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Disable Monitoring of Parameter, TC(12,2)	DCT27170	TC	
15.5		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand ReportMonitList TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
19.1		Send TC to enable HPS3/HPS16 monitoring			
		Execute Telecommand EnabMonitOfParam_Templ Command Parameter(s) : N_Repetition DH041170 1 <dec> (Def) ParameterId DH042170 2072 <dec> MonitorId DH043170 33 <dec> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Enable Monitoring of Parameter, TC(12,1)	DCT26170	TC	
19.2		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand ReportMonitList TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
19.3		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
20		Enable EAT entry for HPS3/16		Next Step: END	
		The Event ID / Heater Group allocation being: MonId 0x8033 for GRP3/16			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
20.1		Send TC to enable HPS3 EAT entry			
		Execute Telecommand <p style="text-align: right;">EnableActions</p> <p>Command Parameter(s) :</p> <p style="margin-left: 40px;">N_Repetition DH041170</p> <p style="margin-left: 40px;">APID_for_EAT_TC DH236170</p> <p style="margin-left: 40px;">EventId DH146170</p> <p>TC Control Flags :</p> <p style="margin-left: 40px;">GBM IL DSE</p> <p style="margin-left: 40px;">--Y -- ---</p> <p>Subsch. ID : 10</p> <p>Det. descr. : TEMPLATE Enable Actions TC(19,4)</p>	DCT84170	TC	
20.2		Send TC(19,6) to acquire the detection list			
		Report Event Detection List telecommand is a request for a complete detection list; when this request is received, one or more TM(19,7) are generated.			
		Execute Telecommand <p style="text-align: right;">ReptEvtActTable</p> <p>TC Control Flags :</p> <p style="margin-left: 40px;">GBM IL DSE</p> <p style="margin-left: 40px;">--Y -- ---</p> <p>Subsch. ID : 10</p> <p>Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)</p>	DCT86170	TC	
20.3		Verify that one or more TM(19,7) have been received			
		Verify Packet Reception TM 19-7 Event-Action Table Content Report Packet Mnemonic : EvtActTblRpt APID : 16 Type : 19 Subtype : 7 PI1 : PI2 :			
End of Sequence					
HRTRLRB4 TC Seq. Name : HRTRLRB4 (HPS15RollbackCLrecon) Roll back after HPS15 related control loop on board recon TCS B TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>					
21		Disable the MOT entry for HPS4/15		Next Step: 22	
The monitoring ID / Heater Group allocation being: Mondl 39 for GRP4/15					

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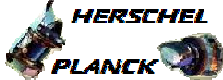
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
21.1		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand <div style="text-align: right;">ReportMonitList</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
21.2		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
21.3		Arm Disable MOT			
		Execute Telecommand <div style="text-align: right;">ArmDisableMon</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Arm Disable On Board Monitoring, TC(8,4,106,1)	DC54F170	TC	
21.4		Send TC to disable HPS4 monitoring			
		Execute Telecommand <div style="text-align: right;">DisMonitOfParam_Templ</div> Command Parameter(s) : <div style="text-align: right;">N_Repetition DH041170 1 <dec> (Def) ParameterId DH042170 2072 <dec> MonitorId DH043170 39 <dec></div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : TEMPLATE Disable Monitoring of Parameter, TC(12,2)	DCT27170	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
21.5		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand <div style="text-align: right;">ReportMonitList</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
22		Switch ON the Nominal HPS15		Next Step: 23	
		Execute Telecommand <div style="text-align: right;">PcduswOnHps15</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE -SY -- ---</div> Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On HPS 15	DCC15170	TC	
23		Switch OFF the Redundant HPS4		Next Step: 24	
		Execute Telecommand <div style="text-align: right;">PcduswOffHps4</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE -M- -- ---</div> Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off HPS 4	DCD30170	TC	
24		Mark the Nominal GRP15 to Not Failed in UIU		Next Step: 25	
		Execute Telecommand <div style="text-align: right;">MarkOKUnitB_Hps15</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE -E- -- ---</div> Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit B HPS15, TC(8,4,116,22)	DC00L170	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
24.1		Check successful modification of the UIU table			
		Verify Telemetry GRP15_HPS_STS WM82H565 = ON		AND=WAHT3584	
		Verify Telemetry GRP4_HPS_STS WM32G565 = OFF		AND=WAHT1584	
		Verify Telemetry Hps15FailSts DEG60170 = Not_Failed		AND=ZAZ7K999	
25		Enable MOT entry for HPS4/15		Next Step: 26	
		The monitoring ID / Heater Group allocation being: MonId 39 for GRP4/15			
25.1		Send TC to enable HPS4/HPS15 monitoring			
		Execute Telecommand EnabMonitOfParam_Templ DCT26170 Command Parameter(s) : N_Repetition DH041170 1 <dec> (Def) ParameterId DH042170 2072 <dec> MonitorId DH043170 39 <dec> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Enable Monitoring of Parameter, TC(12,1)		TC	
25.2		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand ReportMonitList DC20L170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data		TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
25.3		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
26		Enable EAT entry for HPS4/15		Next Step: END	
		The Event ID / Heater Group allocation being: MonId 0x8043 for GRP4/15			
26.1		Send TC to enable HPS4 EAT entry			
		Execute Telecommand EnableActions Command Parameter(s) : N_Repetition DH041170 APID_for_EAT_TC DH236170 EventId DH146170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Enable Actions TC(19,4)	DCT84170	TC	
26.2		Send TC(19,6) to acquire the detection list			
		Report Event Detection List telecommand is a request for a complete detection list; when this request is received, one or more TM(19,7) are generated.			
		Execute Telecommand ReptEvtActTable TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	TC	
26.3		Verify that one or more TM(19,7) have been received			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Packet Reception TM 19-7 Event-Action Table Content Report Packet Mnemonic : EvtActTblRpt APID : 16 Type : 19 Subtype : 7 PI1 : PI2 :			
End of Sequence					
HRTRLRB5 TC Seq. Name : HRTRLRB5 (HPS14RollbackCLrecon) Roll back after HPS14 related control loop on board recon TCS B TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>					
27		Disable the MOT entry for HPS5/14		Next Step: 28	
The monitoring ID / Heater Group allocation being: MonId 45 for GRP5/14					
27.1		Send TC(12,8) to acquire the current monitoring list			
When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.					
		Execute Telecommand ReportMonitList TC Control Flags : Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data GBM IL DSE --Y -- ---	DC20L170	TC	
27.2		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
27.3		Arm Disable MOT			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">ArmDisableMon</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Arm Disable On Board Monitoring, TC(8,4,106,1)	DC54F170	TC	
27.4		Send TC to disable HPS5 monitoring			
		Execute Telecommand <p style="text-align: right;">DisMonitOfParam_Templ</p> Command Parameter(s) : <p style="text-align: right;">N_Repetition DH041170 1 <dec> (Def) ParameterId DH042170 2073 <dec> MonitorId DH043170 45 <dec></p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : TEMPLATE Disable Monitoring of Parameter, TC(12,2)	DCT27170	TC	
27.5		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand <p style="text-align: right;">ReportMonitList</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
28		Switch ON the Nominal HPS14		Next Step: 29	
		Execute Telecommand <p style="text-align: right;">PcduswOnHps14</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE -SY -- ---</p> Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On HPS 14	DCC14170	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand EnabMonitOfParam_Templ Command Parameter(s) : N_Repetition DH041170 ParameterId DH042170 MonitorId DH043170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Enable Monitoring of Parameter, TC(12,1)	DCT26170	TC	
31.2		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand ReportMonitList TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
31.3		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
32		Enable EAT entry for HPS5/14		Next Step: END	
		The Event ID / Heater Group allocation being: Monid 0x8053 for GRP5/14			
32.1		Send TC to enable HPS5 EAT entry			

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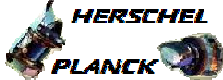

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">EnableActions</p> <i>Command Parameter(s) :</i> N_Repetition DH041170 APID_for_EAT_TC DH236170 EventId DH146170 <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Enable Actions TC(19,4)	DCT84170	TC	
32.2		Send TC(19,6) to acquire the detection list			
		Report Event Detection List telecommand is a request for a complete detection list; when this request is received, one or more TM(19,7) are generated.			
		Execute Telecommand <p style="text-align: right;">ReptEvtActTable</p> <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	TC	
32.3		Verify that one or more TM(19,7) have been received			
		Verify Packet Reception TM 19-7 Event-Action Table Content Report Packet Mnemonic : EvtActTblRpt APID : 16 Type : 19 Subtype : 7 PI1 : PI2 :			
End of Sequence					
HRTRLRB6 <i>TC Seq. Name :HRTRLRB6 (HPS13RollbackCLrecon)</i> Roll back after HPS13 related control loop on board recon TCS B <i>TimeTag Type: N</i> <i>Sub Schedule ID:</i> <input type="checkbox"/>					
33		Disable the MOT entry for HPS6/13		Next Step: 34	
The monitoring ID / Heater Group allocation being: MonId 51 for GRP6/13					
33.1		Send TC(12,8) to acquire the current monitoring list			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		<p>When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.</p>			
		<p>Execute Telecommand ReportMonitList</p> <p>TC Control Flags : GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data</p>	DC20L170	TC	
33.2		Verify that one or more TM(12,9) have been received			
		<p>Verify Packet Reception</p> <p>TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :</p>			
33.3		Arm Disable MOT			
		<p>Execute Telecommand ArmDisableMon</p> <p>TC Control Flags : GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 10 Det. descr. : Arm Disable On Board Monitoring, TC(8,4,106,1)</p>	DC54F170	TC	
33.4		Send TC to disable HPS6 monitoring			
		<p>Execute Telecommand DisMonitOfParam_Templ</p> <p>Command Parameter(s) : N_Repetition DH041170 1 <dec> (Def) ParameterId DH042170 2073 <dec> MonitorId DH043170 51 <dec></p> <p>TC Control Flags : GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 10 Det. descr. : TEMPLATE Disable Monitoring of Parameter, TC(12,2)</p>	DCT27170	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
33.5		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand <div style="text-align: right;">ReportMonitList</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
34		Switch ON the Nominal HPS13		Next Step: 35	
		Execute Telecommand <div style="text-align: right;">PcduswOnHps13</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE -SY -- ---</div> Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On HPS 13	DCC13170	TC	
35		Switch OFF the Redundant HPS6		Next Step: 36	
		Execute Telecommand <div style="text-align: right;">PcduswOffHps6</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE -M- -- ---</div> Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off HPS 6	DCD32170	TC	
36		Mark the Nominal GRP13 to Not Failed in UIU		Next Step: 37	
		Execute Telecommand <div style="text-align: right;">MarkOKUnitB_Hps13</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE -E- -- ---</div> Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit B HPS13, TC(8,4,116,22)	DC02L170	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
36.1		Check successful modification in HK and UIU table			
		Verify Telemetry GRP13_HPS_STS WM72H565 = ON		AND=WAHT3584	
		Verify Telemetry GRP6_HPS_STS WM42G565 = OFF		AND=WAHT1584	
		Verify Telemetry Hps13FailSts DEG52170 = Not_Failed		AND=ZAZ7K999	
37		Enable MOT entry for HPS6/13		Next Step: 38	
		The monitoring ID / Heater Group allocation being: MonId 51 for GRP6/13			
37.1		Send TC to enable HPS6/HPS13 monitoring			
		Execute Telecommand EnabMonitOfParam_Templ DCT26170 Command Parameter(s) : N_Repetition DH041170 1 <dec> (Def) ParameterId DH042170 2073 <dec> MonitorId DH043170 51 <dec> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Enable Monitoring of Parameter, TC(12,1)		TC	
37.2		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand ReportMonitList DC20L170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data		TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
37.3		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
38		Enable EAT entry for HPS6/13		Next Step: END	
		The Event ID / Heater Group allocation being: MonId 0x8063 for GRP6/13			
38.1		Send TC to enable HPS6 EAT entry			
		Execute Telecommand EnableActions Command Parameter(s) : N_Repetition DH041170 APID_for_EAT_TC DH236170 EventId DH146170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Enable Actions TC(19,4)	DCT84170	TC	
38.2		Send TC(19,6) to acquire the detection list			
		Report Event Detection List telecommand is a request for a complete detection list; when this request is received, one or more TM(19,7) are generated.			
		Execute Telecommand ReptEvtActTable TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	TC	
38.3		Verify that one or more TM(19,7) have been received			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Packet Reception TM 19-7 Event-Action Table Content Report Packet Mnemonic : EvtActTblRpt APID : 16 Type : 19 Subtype : 7 PI1 : PI2 :			
End of Sequence					
HRTRLRB7		TC Seq. Name : HRTRLRB7 (HPS12RollbackCLrecon) Roll back after HPS12 related control loop on board recon TCS B TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>			
39		Disable the MOT entry for HPS7/12		Next Step: 40	
		The monitoring ID / Heater Group allocation being: MonId 57 for GRP7/12			
39.1		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand <div style="text-align: center;">ReportMonitList</div> TC Control Flags : <div style="text-align: center;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
39.2		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
39.3		Arm Disable MOT			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment									
		Execute Telecommand <p style="text-align: right;">ArmDisableMon</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Arm Disable On Board Monitoring, TC(8,4,106,1)	DC54F170	TC										
39.4		Send TC to disable HPS7 monitoring												
		Execute Telecommand <p style="text-align: right;">DisMonitOfParam_Templ</p> Command Parameter(s) : <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">N_Repetition</td> <td style="width: 20%;">DH041170</td> <td style="width: 20%;">1 <dec> (Def)</td> </tr> <tr> <td>ParameterId</td> <td>DH042170</td> <td>2160 <dec></td> </tr> <tr> <td>MonitorId</td> <td>DH043170</td> <td>57 <dec></td> </tr> </table> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : TEMPLATE Disable Monitoring of Parameter, TC(12,2)	N_Repetition	DH041170	1 <dec> (Def)	ParameterId	DH042170	2160 <dec>	MonitorId	DH043170	57 <dec>	DCT27170	TC	
N_Repetition	DH041170	1 <dec> (Def)												
ParameterId	DH042170	2160 <dec>												
MonitorId	DH043170	57 <dec>												
39.5		Send TC(12,8) to acquire the current monitoring list												
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.												
		Execute Telecommand <p style="text-align: right;">ReportMonitList</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC										
40		Switch ON the Nominal HPS12		Next Step: 41										
		Execute Telecommand <p style="text-align: right;">PcduswOnHps12</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE -SY -- ---</p> Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On HPS 12	DCC12170	TC										

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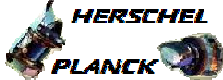
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand EnabMonitOfParam_Templ Command Parameter(s) : N_Repetition DH041170 ParameterId DH042170 MonitorId DH043170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Enable Monitoring of Parameter, TC(12,1)	DCT26170	TC	
43.2		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand ReportMonitList TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
43.3		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
44		Enable EAT entry for HPS7/12		Next Step: END	
		Enable the entry related to the HPS7			
		The Event ID / Heater Group allocation being: MonId 0x8073 for GRP7/12			
44.1		Send TC to enable HPS7 EAT entry			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">EnableActions</p> <i>Command Parameter(s) :</i> <p style="text-align: right;">N_Repetition DH041170 APID_for_EAT_TC DH236170 EventId DH146170</p> <i>TC Control Flags :</i> <p style="text-align: right;"> GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Enable Actions TC(19,4)	DCT84170	TC	
44.2		Send TC(19,6) to acquire the detection list			
		Report Event Detection List telecommand is a request for a complete detection list; when this request is received, one or more TM(19,7) are generated.			
		Execute Telecommand <p style="text-align: right;">ReptEvtActTable</p> <i>TC Control Flags :</i> <p style="text-align: right;"> GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	TC	
44.3		Verify that one or more TM(19,7) have been received			
		Verify Packet Reception TM 19-7 Event-Action Table Content Report Packet Mnemonic : EvtActTblRpt APID : 16 Type : 19 Subtype : 7 PI1 : PI2 :			
End of Sequence					
HRTRLRB8 <i>TC Seq. Name :HRTRLRB8 (HPS11RollbackCLrecon)</i> Roll back after HPS 11 related control loop on board recon TCS B <i>TimeTag Type: N</i> <i>Sub Schedule ID:</i> <input type="checkbox"/>					
45		Disable the MOT entry for HPS8/11		Next Step: 46	
The monitoring ID / Heater Group allocation being: MonId 63 for GRP8/11					
45.1		Send TC(12,8) to acquire the current monitoring list			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		<p>When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.</p>			
		<p>Execute Telecommand</p> <p style="text-align: right;">ReportMonitList</p> <p>TC Control Flags :</p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data</p>	DC20L170	TC	
45.2		Verify that one or more TM(12,9) have been received			
		<p>Verify Packet Reception</p> <p>TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :</p>			
45.3		Arm Disable MOT			
		<p>Execute Telecommand</p> <p style="text-align: right;">ArmDisableMon</p> <p>TC Control Flags :</p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 10 Det. descr. : Arm Disable On Board Monitoring, TC(8,4,106,1)</p>	DC54F170	TC	
45.4		Send TC to disable HPS8 monitoring			
		<p>Execute Telecommand</p> <p style="text-align: right;">DisMonitOfParam_Templ</p> <p>Command Parameter(s) :</p> <p style="text-align: right;">N_Repetition DH041170 1 <dec> (Def) ParameterId DH042170 2160 <dec> MonitorId DH043170 63 <dec></p> <p>TC Control Flags :</p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 10 Det. descr. : TEMPLATE Disable Monitoring of Parameter, TC(12,2)</p>	DCT27170	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
45.5		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand <div style="text-align: right;">ReportMonitList</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
46		Switch ON the Nominal HPS11		Next Step: 47	
		Execute Telecommand <div style="text-align: right;">PcduswOnHps11</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE -SY -- ---</div> Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On HPS 11	DCC11170	TC	
47		Switch OFF the Redundant HPS8		Next Step: 48	
		Execute Telecommand <div style="text-align: right;">PcduswOffHps8</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE -M- -- ---</div> Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off HPS 8	DCD34170	TC	
48		Mark the Nominal GRP11 to Not Failed in UIU		Next Step: 49	
		Execute Telecommand <div style="text-align: right;">MarkOKUnitB_Hps11</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE -E- -- ---</div> Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit B HPS11, TC(8,4,116,22)	DC04L170	TC	

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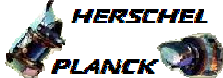

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
48.1		Check successful modification in HK and UIU table			
		Verify Telemetry GRP11_HPS_STS WM62H565 = ON		AND=WAHT2584	
		Verify Telemetry GRP8_HPS_STS WM52G565 = OFF		AND=WAHT2584	
		Verify Telemetry Hps11FailSts DEG44170 = Not_Failed		AND=ZAZ7K999	
49		Enable MOT entry for HPS8/11		Next Step: 50	
		The monitoring ID / Heater Group allocation being: MonId 63 for GRP8/11			
49.1		Send TC to enable HPS8/HPS11 monitoring			
		Execute Telecommand EnabMonitOfParam_Templ DCT26170 Command Parameter(s) : N_Repetition DH041170 1 <dec> (Def) ParameterId DH042170 2160 <dec> MonitorId DH043170 63 <dec> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Enable Monitoring of Parameter, TC(12,1)		TC	
49.2		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand ReportMonitList DC20L170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data		TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
49.3		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
50		Enable EAT entry for HPS8/11		Next Step: END	
		The Event ID / Heater Group allocation being: MonId 0x8083 for GRP8/11			
50.1		Send TC to enable HPS8 EAT entry			
		Execute Telecommand EnableActions Command Parameter(s) : N_Repetition DH041170 APID_for_EAT_TC DH236170 EventId DH146170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Enable Actions TC(19,4)	DCT84170	TC	
50.2		Send TC(19,6) to acquire the detection list			
		Report Event Detection List telecommand is a request for a complete detection list; when this request is received, one or more TM(19,7) are generated.			
		Execute Telecommand ReptEvtActTable TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	TC	
50.3		Verify that one or more TM(19,7) have been received			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Packet Reception TM 19-7 Event-Action Table Content Report Packet Mnemonic : EvtActTblRpt APID : 16 Type : 19 Subtype : 7 PI1 : PI2 :			
End of Sequence					
	HRTRLRB9	TC Seq. Name : HRTRLRB9 (HPS10RollbackCLrecon) Roll back after HPS10 related control loop on board recon TCS B TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>			
51		Disable the MOT entry for HPS9/10		Next Step: 52	
		The monitoring ID / Heater Group allocation being: MonId 69 for GRP9/10			
51.1		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand <div style="text-align: center;">ReportMonitList</div> TC Control Flags : <div style="text-align: center;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
51.2		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
51.3		Arm Disable MOT			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">ArmDisableMon</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : Arm Disable On Board Monitoring,</i> TC(8,4,106,1)	DC54F170	TC	
51.4		Send TC to disable HPS9 monitoring			
		Execute Telecommand <p style="text-align: right;">DisMonitOfParam_Templ</p> <i>Command Parameter(s) :</i> <p style="text-align: right;">N_Repetition DH041170 1 <dec> (Def) ParameterId DH042170 2074 <dec> MonitorId DH043170 69 <dec></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : TEMPLATE Disable Monitoring of</i> Parameter, TC(12,2)	DCT27170	TC	
51.5		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand <p style="text-align: right;">ReportMonitList</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : Report current monitoring list,</i> TC(12,8), no appl. data	DC20L170	TC	
52		Switch ON the Nominal HPS10		Next Step: 53	
		Execute Telecommand <p style="text-align: right;">PcduswOnHps10</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE -SY -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : PCDU:TC(8,4,112,5) switch On HPS 10</i>	DCC10170	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand EnabMonitOfParam_Templ <i>Command Parameter(s) :</i> N_Repetition DH041170 ParameterId DH042170 MonitorId DH043170 <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Enable Monitoring of Parameter, TC(12,1)	DCT26170	TC	
55.2		Send TC(12,8) to acquire the current monitoring list			
		When the CDMU ASW receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) shall be issued.			
		Execute Telecommand ReportMonitList <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID : 10</i> Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
55.3		Verify that one or more TM(12,9) have been received			
		Verify Packet Reception TM 12-9 Current Monitoring List Report Packet Mnemonic : CurMonLstRpt APID : 16 Type : 12 Subtype : 9 PI1 : PI2 :			
56		Enable EAT entry for HPS9/10		Next Step: END	
		The Event ID / Heater Group allocation being: Monid 0x8093 for GRP9/10			
56.1		Send TC to enable HPS9 EAT entry			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">EnableActions</p> <i>Command Parameter(s) :</i> <p style="text-align: right;">N_Repetition DH041170 APID_for_EAT_TC DH236170 EventId DH146170</p> <i>TC Control Flags :</i> <p style="text-align: right;"> GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Enable Actions TC(19,4)	DCT84170	TC	
56.2		Send TC(19,6) to acquire the detection list			
		Report Event Detection List telecommand is a request for a complete detection list; when this request is received, one or more TM(19,7) are generated.			
		Execute Telecommand <p style="text-align: right;">ReptEvtActTable</p> <i>TC Control Flags :</i> <p style="text-align: right;"> GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	TC	
56.3		Verify that one or more TM(19,7) have been received			
		Verify Packet Reception TM 19-7 Event-Action Table Content Report Packet Mnemonic : EvtActTblRpt APID : 16 Type : 19 Subtype : 7 PI1 : PI2 :			
		End of Sequence			
		End of Procedure			