

Roll back after thermal control loop on board reconfiguration  
File: H\_CRP\_TCS\_CLRB.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 the TCS was configured on A-side (Nominal heater groups [1 to 9]).

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

### 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

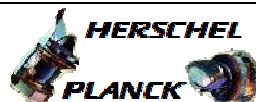
#### Output Command Sequences

HRTCLRB1  
HRTCLRB2  
HRTCLRB3  
HRTCLRB4  
HRTCLRB5  
HRTCLRB6  
HRTCLRB7  
HRTCLRB8  
HRTCLRB9

### Referenced Displays

ANDs      GRDs      SLDs

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WAHT1584  
 WAHT3584  
 ZAZ7K999  
 WAHT2584  
 ZAZ7L999

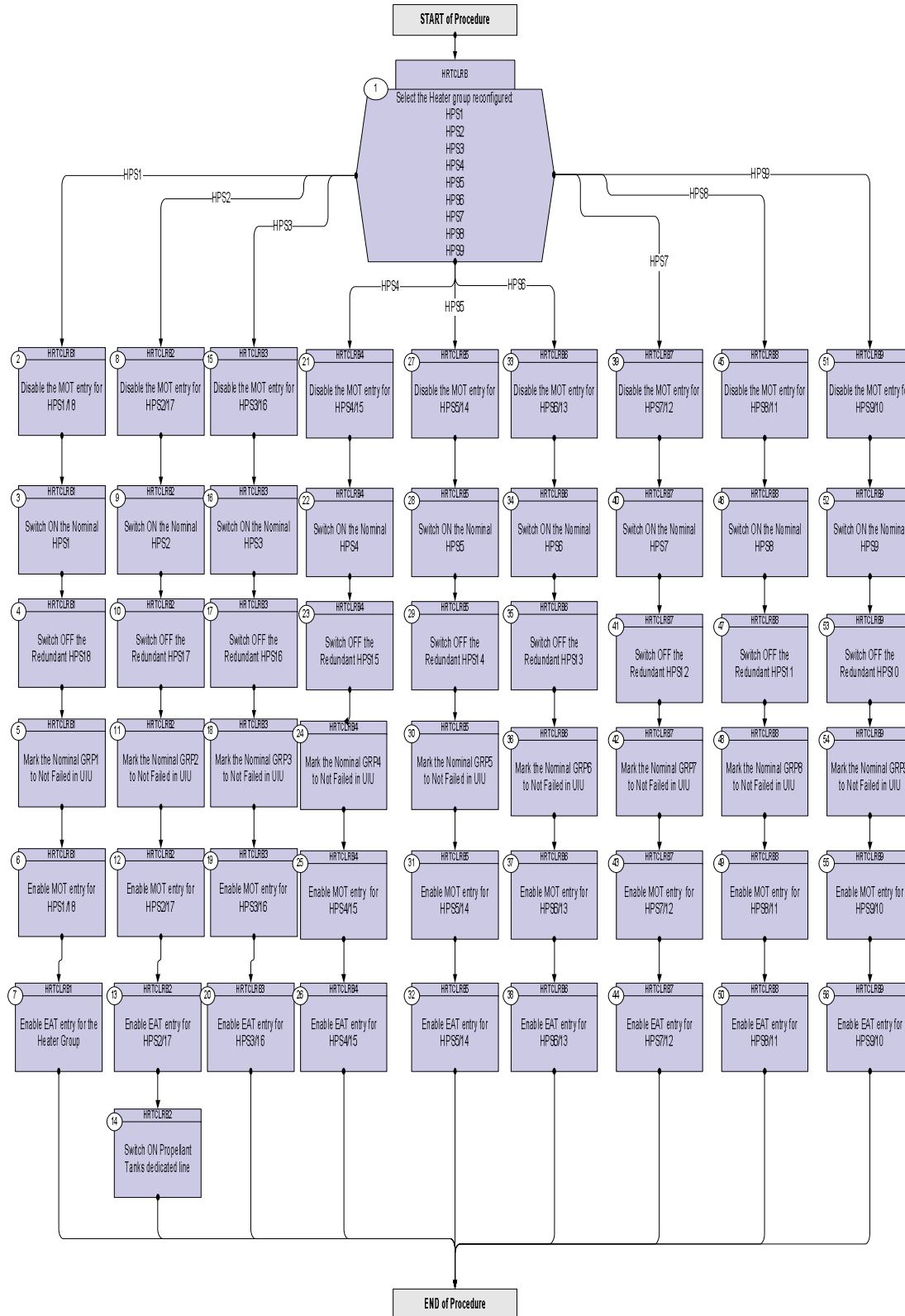
**Configuration Control Information**

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
28/07/08	1	1	Created	E. Picallo	
10/12/08		2	Call to decontamination CRP deleted	E. Picallo	
09/01/09	2	3	CDMU ASW V3.8 and BSW V2.4 alignment	E. Picallo	
13/02/09		4	Procedure actions updated based Sim 17 inputs (no disable/re-enable control loops action during roll-back First swich ON nom HPS then switch OFF red HPS and then mark OK nom HPS; all TCs blocked in a single TC)	E. Picallo	
26/02/09	2.1	5	correction: TC to re-enable MOT related to HPS3 was missing	E. Picallo	
16/04/09	2.3	6	clarification to use the procedure in case TCS is configured on A-side (Nominal heater groups [1 to 9]) added	E. Picallo	

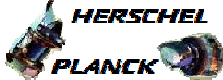

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### Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
<b>Beginning of Procedure</b>					
<p><b>HRTCLRB</b></p> <p>TC Seq. Name :HRTCLRB ( HPS RollbackCLrecon )            Roll back after HPS related control loop on board reconfig</p> <p>TimeTag Type: N            Sub Schedule ID:</p> <p style="text-align: center;">□</p>					
1		Select the Heater group reconfigured: HPS1 HPS2 HPS3 HPS4 HPS5 HPS6 HPS7 HPS8 HPS9  type: [Switch]		Next Step: HPS1 2 HPS2 8 HPS3 15 HPS4 21 HPS5 27 HPS6 33 HPS7 39 HPS8 45 HPS9 51	
End of Sequence					
<p><b>HRTCLRB1</b></p> <p>TC Seq. Name :HRTCLRB1 ( HPS1 RollbackCLrecon )            Roll back after HPS1 related control loop on board reconfig</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	
<b>The monitoring ID / Heater Group allocation being: MonId 21 for GRP1/18</b>					
2.1		Send TC(12,8) to acquire the current monitoring list			
<p><b>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.</b></p>					
		Execute Telecommand <div style="text-align: right;"><b>ReportMonitList</b></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  ArmDisableMon  TC Control Flags :  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  DisMonitOfParam_Templ  Command Parameter(s) : N_Repetition DH041170 ParameterId DH042170 MonitorId DH043170  TC Control Flags :  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			
		<b>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.</b>			
		Execute Telecommand  ReportMonitList  TC Control Flags :  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;"><b>EnabMonitOfParam_Templ</b></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><b>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)).</b>  <b>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.</b></p>			
		Execute Telecommand <p style="text-align: center;"><b>ReportMonitList</b></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	
		<b>The Event ID / Heater Group allocation being: MonId 0x8013 for GRP1/18</b>			

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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;"><b>EnableActions</b></p> <p><b>DCT84170</b></p> <i>Command Parameter(s) :</i> <b>N_Repetition</b> DH041170    1 <dec> (Def) <b>APID_for_EAT_TC</b> DH236170    CDMS (Def) <b>EventId</b> DH146170    8013 <hex>		TC	
		<i>TC Control Flags :</i> <p style="text-align: right;"><b>GBM IL DSE</b></p> <p style="text-align: right;">--Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Enable Actions TC(19,4)			
7.2		Send TC(19,6) to acquire the detection list			
		<b>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.</b>			
		Execute Telecommand <p style="text-align: right;"><b>ReptEvtActTable</b></p> <p><b>DCT86170</b></p> <i>TC Control Flags :</i> <p style="text-align: right;"><b>GBM IL DSE</b></p> <p style="text-align: right;">--Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)		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					
<b>HRTCLRB2</b> <i>TC Seq. Name : HRTCLRB2 ( HPS2 RollbackCLrecon )</i> Roll back after HPS2 related control loop on board reconfig  <i>TimeTag Type: N</i> <i>Sub Schedule ID:</i>  <input type="checkbox"/>					
8		Disable the MOT entry for HPS2/17		Next Step: 9	
<b>The monitoring ID / Heater Group allocation being: MonId 27 for GRP2/17</b>					




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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			
		<b>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.</b>			
		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 &lt;dec&gt; (Def)            ParameterId DH042170 2071 &lt;dec&gt;            MonitorId DH043170 27 &lt;dec&gt;</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			
		<b>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.</b>			
		Execute Telecommand <p style="text-align: center;"><b>ReportMonitList</b></p> <i>TC Control Flags :</i> <p style="text-align: center;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : Report current monitoring list, TC(12,8), no appl. data</i>	DC20L170	TC	
9		Switch ON the Nominal HPS2		Next Step: 10	
		Execute Telecommand <p style="text-align: center;"><b>PcdSwOnHps2</b></p> <i>TC Control Flags :</i> <p style="text-align: center;">GBM IL DSE -SY -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : PCDU:TC(8,4,112,5) switch On HPS 2</i>	DCC02170	TC	
10		Switch OFF the Redundant HPS17		Next Step: 11	
		Execute Telecommand <p style="text-align: center;"><b>PcdSwOffHps17</b></p> <i>TC Control Flags :</i> <p style="text-align: center;">GBM IL DSE -M- -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : PCDU:TC(8,4,112,3) switch Off HPS 17</i>	DCD43170	TC	
11		Mark the Nominal GRP2 to Not Failed in UIU		Next Step: 12	
		Execute Telecommand <p style="text-align: center;"><b>MarkOKUnitA_Hps2</b></p> <i>TC Control Flags :</i> <p style="text-align: center;">GBM IL DSE -E- -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : Fdir Mark OK Unit A HPS2, TC(8,4,116,22)</i>	DC72H170	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 GRP2_HPS_STS WM22G565 = ON		AND=WAHT1584	
		Verify Telemetry GRP17_HPS_STS WM92H565 = OFF		AND=WAHT3584	
		Verify Telemetry Hps2FailSts DEG80170 = Not_Failed		AND=ZAZ7K999	
12		Enable MOT entry for HPS2/17		Next Step: 13	
		<b>The monitoring ID / Heater Group allocation being: MonId 27 for GRP2/17</b>			
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			
		<b>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.</b>			
		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	
		<b>The Event ID / Heater Group allocation being: MonId 0x8023 for GRP2/17</b>			
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			
		<b>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.</b>			
		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	
		<b>The HPS2HCS6 need to be switched back ON</b>			
		Execute Telecommand  SwOn_Tanks_G2H6  TC Control Flags :  GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On Tanks Group 2 HCS 6	DCC30170	TC	
		Verify Telemetry  tanks_G2H6_S WM21F565 = ON		AND=WAHT1584	
End of Sequence					
<b>HRTCLRB3</b> TC Seq. Name : HRTCLRB3 ( HPS3 RollbackCLrecon ) Roll back after HPS3 related control loop on board reconfig  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>					
15		Disable the MOT entry for HPS3/16		Next Step: 16	
		<b>The monitoring ID / Heater Group allocation being: MonId 33 for GRP3/16</b>			
15.1		Send TC(12,8) to acquire the current monitoring list			
		<b>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.</b>			
		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			
		<b>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.</b>			
		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 <b>EnabMonitOfParam_Templ</b> 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			
		<b>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)).</b> <b>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.</b>			
		Execute Telecommand <b>ReportMonitList</b> 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	
		<b>The Event ID / Heater Group allocation being: MonId 0x8033 for GRP3/16</b>			




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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;"><b>EnableActions</b></p> <p><b>DCT84170</b></p> <i>Command Parameter(s) :</i> <b>N_Repetition</b> DH041170    1 <dec> (Def) <b>APID_for_EAT_TC</b> DH236170    CDMS (Def) <b>EventId</b> DH146170    8033 <hex>		TC	
		<i>TC Control Flags :</i> <p style="text-align: right;"><b>GBM IL DSE</b></p> <p style="text-align: right;">--Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Enable Actions TC(19,4)			
20.2		Send TC(19,6) to acquire the detection list			
		<b>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.</b>			
		Execute Telecommand <p style="text-align: right;"><b>ReptEvtActTable</b></p> <p><b>DCT86170</b></p> <i>TC Control Flags :</i> <p style="text-align: right;"><b>GBM IL DSE</b></p> <p style="text-align: right;">--Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)		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					
<b>HRTCLRB4</b> <i>TC Seq. Name : HRTCLRB4 ( HPS4 RollbackCLrecon )</i> Roll back after HPS4 related control loop on board reconfig  <i>TimeTag Type: N</i> <i>Sub Schedule ID:</i>  <input type="checkbox"/>					
21		Disable the MOT entry for HPS4/15		Next Step: 22	
<b>The monitoring ID / Heater Group allocation being: Mond1 39 for GRP4/15</b>					

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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			
		<b>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.</b>			
		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 &lt;dec&gt; (Def)            ParameterId DH042170 2072 &lt;dec&gt;            MonitorId DH043170 39 &lt;dec&gt;</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			
		<b>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.</b>			
		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 HPS4		Next Step: 23	
		Execute Telecommand  <div style="text-align: right;">PcdSwOnHps4</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 4	DCC04170	TC	
23		Switch OFF the Redundant HPS15		Next Step: 24	
		Execute Telecommand  <div style="text-align: right;">PcdSwOffHps15</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 15	DCD41170	TC	
24		Mark the Nominal GRP4 to Not Failed in UIU		Next Step: 25	
		Execute Telecommand  <div style="text-align: right;">MarkOKUnitA_Hps4</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE -E- -- ---</div> Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit A HPS4, TC(8,4,116,22)	DC74H170	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 GRP4_HPS_STS WM32G565 = ON		AND=WAHT1584	
		Verify Telemetry GRP15_HPS_STS WM82H565 = OFF		AND=WAHT3584	
		Verify Telemetry Hps4FailSts DEG88170 = Not_Failed		AND=ZAZ7K999	
25		Enable MOT entry for HPS4/15		Next Step: 26	
		<b>The monitoring ID / Heater Group allocation being: MonId 39 for GRP4/15</b>			
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			
		<b>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.</b>			
		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	
		<b>The Event ID / Heater Group allocation being: MonId 0x8043 for GRP4/15</b>			
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			
		<b>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.</b>			
		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					
<b>HRTCLRB5</b> TC Seq. Name : HRTCLRB5 ( HPS5 RollbackCLrecon ) Roll back after HPS5 related control loop on board reconfig  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>					
27		Disable the MOT entry for HPS5/14		Next Step: 28	
<b>The monitoring ID / Heater Group allocation being: MonId 45 for GRP5/14</b>					
27.1		Send TC(12,8) to acquire the current monitoring list			
<b>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.</b>					
		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> <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	
27.4		Send TC to disable HPS5 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 &lt;dec&gt; (Def)            ParameterId           DH042170     2073 &lt;dec&gt;            MonitorId             DH043170     45 &lt;dec&gt;</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	
27.5		Send TC(12,8) to acquire the current monitoring list			
		<b>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.</b>			
		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	
28		Switch ON the Nominal HPS5		Next Step: 29	
		Execute Telecommand <p style="text-align: right;">PcduSwOnHps5</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 5</i>	DCC05170	TC	


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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
29		Switch OFF the Redundant HPS14		Next Step: 30	
		Execute Telecommand <b>PcduswOffHps14</b>  TC Control Flags : <b>GEM IL DSE</b> <b>-M- -- ---</b> Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off HPS 14	<b>DCD40170</b>	<b>TC</b>	
30		Mark the Nominal GRP5 to Not Failed in UIU		Next Step: 31	
		Execute Telecommand <b>MarkOKUnitA_Hps5</b>  TC Control Flags : <b>GEM IL DSE</b> <b>-E- -- ---</b> Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit A HPS5, TC(8,4,116,22)	<b>DC75H170</b>	<b>TC</b>	
30.1		Check successful modification in HK and UIU table			
		Verify Telemetry <b>GRP5_HPS_STS</b> <b>WM32H565</b> = <b>ON</b>		<b>AND=WAHT1584</b>	
		Verify Telemetry <b>GRP14_HPS_STS</b> <b>WM82G565</b> = <b>OFF</b>		<b>AND=WAHT3584</b>	
		Verify Telemetry <b>Hps5FailSts</b> <b>DEG92170</b> = <b>Not_Failed</b>		<b>AND=ZAZ7K999</b>	
31		Enable MOT entry for HPS5/14		Next Step: 32	
		<b>The monitoring ID / Heater Group allocation being: Mond1 45 for GRP5/14</b>			
31.1		Send TC to enable HPS5/HPS14 monitoring			




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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <b>EnabMonitOfParam_Templ</b> 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			
		<b>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.</b>			
		Execute Telecommand <b>ReportMonitList</b> 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	
		<b>The Event ID / Heater Group allocation being:            Monid 0x8053 for GRP5/14</b>			
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;"><b>EnableActions</b></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	
32.2		Send TC(19,6) to acquire the detection list			
		<b>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.</b>			
		Execute Telecommand <p style="text-align: right;"><b>ReptEvtActTable</b></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	
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					
<b>HRTCLRB6</b> <i>TC Seq. Name :HRTCLRB6 ( HPS6 RollbackCLrecon )</i> Roll back after HPS6 related control loop on board reconfig  <i>TimeTag Type: N</i> <i>Sub Schedule ID:</i>  <input type="checkbox"/>					
33		Disable the MOT entry for HPS6/13		Next Step: 34	
<b>The monitoring ID / Heater Group allocation being: MonId 51 for GRP6/13</b>					
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  <b>ReportMonitList</b></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  <b>ArmDisableMon</b></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  <b>DisMonitOfParam_Templ</b></p> <p>Command Parameter(s) :            N_Repetition DH041170 1 &lt;dec&gt; (Def)            ParameterId DH042170 2073 &lt;dec&gt;            MonitorId DH043170 51 &lt;dec&gt;</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			
		<b>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.</b>			
		Execute Telecommand  <p style="text-align: right;"><b>ReportMonitList</b></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, TC(12,8), no appl. data</i>	DC20L170	TC	
34		Switch ON the Nominal HPS6		Next Step: 35	
		Execute Telecommand  <p style="text-align: right;"><b>PcduSwOnHps6</b></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 6</i>	DCC06170	TC	
35		Switch OFF the Redundant HPS13		Next Step: 36	
		Execute Telecommand  <p style="text-align: right;"><b>PcduSwOffHps13</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE -M- -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : PCDU:TC(8,4,112,3) switch Off HPS 13</i>	DCD39170	TC	
36		Mark the Nominal GRP6 to Not Failed in UIU		Next Step: 37	
		Execute Telecommand  <p style="text-align: right;"><b>MarkOKUnitA_Hps6</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE -E- -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : Fdir Mark OK Unit A HPS6, TC(8,4,116,22)</i>	DC76H170	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 GRP6_HPS_STS WM42G565 = ON		AND=WAHT1584	
		Verify Telemetry GRP13_HPS_STS WM72H565 = OFF		AND=WAHT3584	
		Verify Telemetry Hps6FailSts DEG96170 = Not_Failed		AND=ZAZ7K999	
37		Enable MOT entry for HPS6/13		Next Step: 38	
		<b>The monitoring ID / Heater Group allocation being: MonId 51 for GRP6/13</b>			
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			
		<b>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.</b>			
		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	
		<b>The Event ID / Heater Group allocation being: MonId 0x8063 for GRP6/13</b>			
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			
		<b>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.</b>			
		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					
<b>HRTCLRB7</b> TC Seq. Name : HRTCLRB7 ( HPS7 RollbackCLrecon ) Roll back after HPS7 related control loop on board reconfig  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>					
39		Disable the MOT entry for HPS7/12		Next Step: 40	
<b>The monitoring ID / Heater Group allocation being: MonId 57 for GRP7/12</b>					
39.1		Send TC(12,8) to acquire the current monitoring list			
<b>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.</b>					
		Execute Telecommand  <div style="text-align: center;"><b>ReportMonitList</b></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 &lt;dec&gt; (Def)</td> <td style="width: 30%;"></td> </tr> <tr> <td>ParameterId</td> <td>DH042170</td> <td>2160 &lt;dec&gt;</td> <td></td> </tr> <tr> <td>MonitorId</td> <td>DH043170</td> <td>57 &lt;dec&gt;</td> <td></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															
		<b>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.</b>															
		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 HPS7		Next Step: 41													
		Execute Telecommand <p style="text-align: right;">PcduSwOnHps7</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 7	DCC07170	TC													



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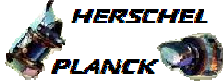

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
41		Switch OFF the Redundant HPS12		Next Step: 42	
		Execute Telecommand <b>PcduswOffHps12</b>  TC Control Flags : <b>GEM IL DSE</b> <b>-M- -- ---</b> Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off HPS 12	<b>DCD38170</b>	TC	
42		Mark the Nominal GRP7 to Not Failed in UIU		Next Step: 43	
		Execute Telecommand <b>MarkOKUnitA_Hps7</b>  TC Control Flags : <b>GEM IL DSE</b> <b>-E- -- ---</b> Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit A HPS7, TC(8,4,116,22)	<b>DC77H170</b>	TC	
42.1		Check successful modification in HK and UIU table			
		Verify Telemetry <b>GRP7_HPS_STS</b> <b>WM42H565</b> = ON		AND=WAHT2584	
		Verify Telemetry <b>GRP12_HPS_STS</b> <b>WM72G565</b> = OFF		AND=WAHT2584	
		Verify Telemetry <b>Hps7FailSts</b> <b>DEH00170</b> = Not_Failed		AND=ZAZ7K999	
43		Enable MOT entry for HPS7/12		Next Step: 44	
		<b>The monitoring ID / Heater Group allocation being: Mond1 57 for GRP7/12</b>			
43.1		Send TC to enable HPS7/HPS12 monitoring			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <b>EnabMonitOfParam_Templ</b>  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			
		<b>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.</b>			
		Execute Telecommand <b>ReportMonitList</b>  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	
		<b>Enable the entry related to the HPS7</b>			
		<b>The Event ID / Heater Group allocation being:            MonId 0x8073 for GRP7/12</b>			
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;"><b>EnableActions</b></p> <i>Command Parameter(s) :</i> <b>N_Repetition</b> DH041170 <b>APID_for_EAT_TC</b> DH236170 <b>EventId</b> DH146170  <i>TC Control Flags :</i> <b>GBM IL DSE</b> --Y -- ---  <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			
		<b>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.</b>			
		Execute Telecommand <p style="text-align: right;"><b>ReptEvtActTable</b></p> <i>TC Control Flags :</i> <b>GBM IL DSE</b> --Y -- ---  <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					
<b>HRTCLRB8</b> <i>TC Seq. Name : HRTCLRB8 ( HPS8 RollbackCLrecon )</i> Roll back after HPS8 related control loop on board reconfig  <i>TimeTag Type: N</i> <i>Sub Schedule ID:</i>  <input type="checkbox"/>					
45		Disable the MOT entry for HPS8/11		Next Step: 46	
<b>The monitoring ID / Heater Group allocation being: MonId 63 for GRP8/11</b>					
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  <b>ReportMonitList</b></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	
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  <b>ArmDisableMon</b></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	
45.4		Send TC to disable HPS8 monitoring			
		<p>Execute Telecommand  <b>DisMonitOfParam_Templ</b></p> <p>Command Parameter(s) :            N_Repetition DH041170 1 &lt;dec&gt; (Def)            ParameterId DH042170 2160 &lt;dec&gt;            MonitorId DH043170 63 &lt;dec&gt;</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
45.5		Send TC(12,8) to acquire the current monitoring list			
		<b>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.</b>			
		Execute Telecommand  <p style="text-align: right;"><b>ReportMonitList</b></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, TC(12,8), no appl. data</i>	DC20L170	TC	
46		Switch ON the Nominal HPS8		Next Step: 47	
		Execute Telecommand  <p style="text-align: right;"><b>PcduSwOnHps8</b></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 8</i>	DCC08170	TC	
47		Switch OFF the Redundant HPS11		Next Step: 48	
		Execute Telecommand  <p style="text-align: right;"><b>PcduSwOffHps11</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE -M- -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : PCDU:TC(8,4,112,3) switch Off HPS 11</i>	DCD37170	TC	
48		Mark the Nominal GRP8 to Not Failed in UIU		Next Step: 49	
		Execute Telecommand  <p style="text-align: right;"><b>MarkOKUnitA_Hps8</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE -E- -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : Fdir Mark OK Unit A HPS8, TC(8,4,116,22)</i>	DC78H170	TC	

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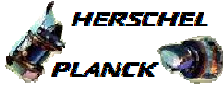

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
48.1		Check successful modification in HK and UIU table			
		Verify Telemetry GRP8_HPS_STS WM52G565 = ON		AND=WAHT2584	
		Verify Telemetry GRP11_HPS_STS WM62H565 = OFF		AND=WAHT2584	
		Verify Telemetry Hps8FailSts DEH04170 = Not_Failed		AND=ZAZ7K999	
49		Enable MOT entry for HPS8/11		Next Step: 50	
		<b>The monitoring ID / Heater Group allocation being: MonId 63 for GRP8/11</b>			
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			
		<b>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.</b>			
		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	
		<b>The Event ID / Heater Group allocation being: MonId 0x8083 for GRP8/11</b>			
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			
		<b>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.</b>			
		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					
<b>HRTCLRB9</b> TC Seq. Name : HRTCLRB9 ( HPS9 RollbackCLrecon ) Roll back after HPS9 related control loop on board reconfig  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>					
51		Disable the MOT entry for HPS9/10		Next Step: 52	
<b>The monitoring ID / Heater Group allocation being: MonId 69 for GRP9/10</b>					
51.1		Send TC(12,8) to acquire the current monitoring list			
<b>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.</b>					
		Execute Telecommand  <div style="text-align: center;"><b>ReportMonitList</b></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> 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	
51.4		Send TC to disable HPS9 monitoring			
		Execute Telecommand <p style="text-align: right;">DisMonitOfParam_Templ</p> Command Parameter(s) : N_Repetition DH041170 ParameterId DH042170 MonitorId DH043170 1 <dec> (Def) 2074 <dec> 69 <dec>	DCT27170	TC	
51.5		Send TC(12,8) to acquire the current monitoring list			
		<b>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.</b>			
		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	
52		Switch ON the Nominal HPS9		Next Step: 53	
		Execute Telecommand <p style="text-align: right;">PcduSwOnHps9</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 9	DCC09170	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
53		Switch OFF the Redundant HPS10		Next Step: 54	
		Execute Telecommand <b>PcduswOffHps10</b>  TC Control Flags : <b>GEM IL DSE</b> <b>-M- -- ---</b> Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off HPS 10	<b>DCD36170</b>	<b>TC</b>	
54		Mark the Nominal GRP9 to Not Failed in UIU		Next Step: 55	
		Execute Telecommand <b>MarkOKUnitA_Hps9</b>  TC Control Flags : <b>GEM IL DSE</b> <b>-E- -- ---</b> Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit A HPS9, TC(8,4,116,22)	<b>DC79H170</b>	<b>TC</b>	
54.1		Check successful modification in HK and UIU table			
		Verify Telemetry <b>GRP9_HPS_STS</b> <b>WM52H565</b> = <b>ON</b>		<b>AND=WAHT2584</b>	
		Verify Telemetry <b>GRP10_HPS_STS</b> <b>WM62G565</b> = <b>OFF</b>		<b>AND=WAHT2584</b>	
		Verify Telemetry <b>Hps9FailSts</b> <b>DEH08170</b> = <b>Not_Failed</b>		<b>AND=ZAZ7L999</b>	
55		Enable MOT entry for HPS9/10		Next Step: 56	
		<b>The monitoring ID / Heater Group allocation being: Mond1 69 for GRP9/10</b>			
55.1		Send TC to enable HPS9/HPS10 monitoring			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <b>EnabMonitOfParam_Templ</b>  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	
55.2		Send TC(12,8) to acquire the current monitoring list			
		<b>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.</b>			
		Execute Telecommand <b>ReportMonitList</b>  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 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	
		<b>The Event ID / Heater Group allocation being:            Monid 0x8093 for GRP9/10</b>			
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> 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	
56.2		Send TC(19,6) to acquire the detection list			
		<b>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.</b>			
		Execute Telecommand <p style="text-align: right;">ReptEvtActTable</p> 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	
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					
<b>End of Procedure</b>					