

Configure Redundant Heater Group [1 to 9] Nominal after CL failure
File: H_CRP_TCS_CLN2.xls
Author: E. Picallo



Procedure Summary

Objectives

This procedure describes the steps to configure a Redundant Heater Group [1 to 9] as Nominal after a Nominal control loop failure.

This allows to re-establish the Redundancy.

Summary of Constraints

It is necessary to mark the affected Noninal HPS[10 to 18] as Not Failed and Redundant and the related previously Redundant HPS [1 to 9] as Nominal in the UIU table. Thus the status of the ASW function "FDIR Management" has to be "running".

It is necessary to reenable the entries in the Event-Action Table (EAT) through TC(19,4), thus the status of the ASW function "Event/Action Management" has to be "running".

Spacecraft Configuration

Start of Procedure

CDMU in default configuration;
Thermal Control Management function active;
A Noninal Heater Group [10 to 18] marked as Failed in the UIU table.

End of Procedure

CDMU in default configuration;
Thermal Control Management function active;
The affected Noninal Heater Group [10 to 18] marked as Not Failed and Redundant in the UIU table.
The related Redundant Heater Group [1 to 9] marked as Nominal in the UIU table.

Reference File(s)

Input Command Sequences

Output Command Sequences

HRTCLN21
HRTCLN22
HRTCLN23
HRTCLN24
HRTCLN25
HRTCLN26
HRTCLN27
HRTCLN28
HRTCLN29

Referenced Displays

ANDs GRDs SLDs

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ZAZ7K999
 ZAZ7L999

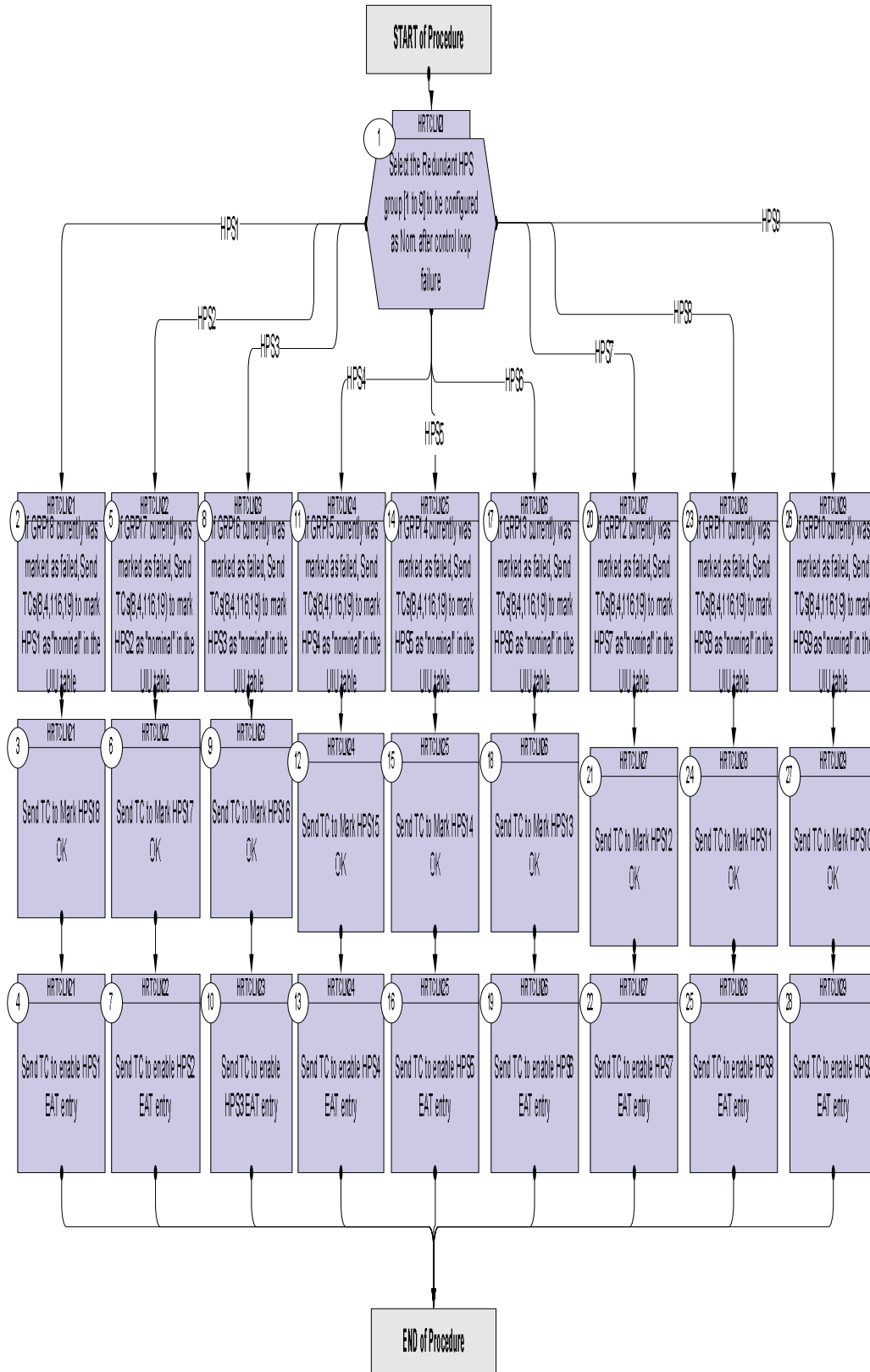
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
20/04/09		1	Created	E. Picallo	
22/04/09	2.3	1.01	Validation : summary of constrains added	E. Picallo	

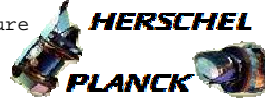
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Procedure Flowchart Overview

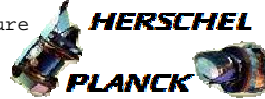


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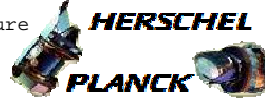
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
<p>TC Seq. Name :HRTCLN2I (Config HPS R Nominal) Configure Red. Heater Group as Nom. after control loop failure</p> <p>TimeTag Type: N Sub Schedule ID: <input type="checkbox"/></p>				
1		Select the Redundant HPS group [1 to 9] to be configured as Nom. after control loop failure		Next Step: HPS1 2 HPS2 5 HPS3 8 HPS4 11 HPS5 14 HPS6 17 HPS7 20 HPS8 23 HPS9 26
<p>TC Seq. Name :HRTCLN21 (ConfigHPS1R Nominal) Configure Red. Heater Group 1 as Nom after control loop failure</p> <p>TimeTag Type: N Sub Schedule ID: <input type="checkbox"/></p>				
2		If GRP18 currently was marked as failed, Send TCs(8,4,116,19) to mark HPS1 as "nominal" in the UIU table		Next Step: 3
		Execute Telecommand SelNomUnitA_Hps1 TC Control Flags : GBM IL DSE ---Y --- Subsch. ID : 10 Det. descr. : Fdir Select Nominal Unit A HPS1, TC(8,4,116,19)	DC15G170	
		Verify Telemetry Hps1LogSts DEG78170	= Nominal	AND=ZAZ7K999
3		Send TC to Mark HPS18 OK		Next Step: 4
		Execute Telecommand MarkOKUnitB_Hps18 TC Control Flags : GBM IL DSE ---Y --- Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit B HPS18, TC(8,4,116,22)	DC97H170	

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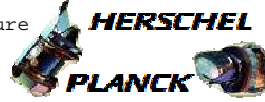
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Hps18FailSts DEG72170	= Not_Failed	AND=ZAZ7K999
4		Send TC to enable HPS1 EAT entry		Next Step: END
		Execute Telecommand EnableActions DCT84170 Command Parameter(s) : N_Repetition DH041170 1 <dec> (Def) APID_for_EAT_TC DH236170 CDMS (Def) EventId DH146170 8013 <hex> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Enable Actions TC(19,4)		
4.1		Send TC(19,6) to acquire the detection list		<input type="checkbox"/>
		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 DCT86170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)		
		Verify MonId 0x8013 is ENABLED		
<p>TC Seq. Name :HRTCLN22 (ConfigHPS2R Nominal) Configure Red. Heater Group 2 as Nom after control loop failure</p> <p>TimeTag Type: N Sub Schedule ID:</p> <p><input type="checkbox"/></p>				
5		If GRP17 currently was marked as failed, Send TCs(8,4,116,19) to mark HPS2 as "nominal" in the UIU table		Next Step: 6

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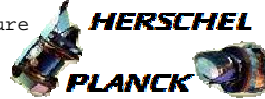
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <div style="text-align: right;">SelNomUnitA_Hps2</div> TC Control Flags : Subsch. ID : 10 Det. descr. : Fdir Select Nominal Unit A HPS2, TC(8,4,116,19) <div style="text-align: right;">GBM IL DSE --Y -- ---</div>	DC16G170	
		Verify Telemetry <div style="text-align: right;">Hps2LogSts DEG82170</div>	= Nominal	AND=ZAZ7K999
6		Send TC to Mark HPS17 OK		Next Step: 7
		Execute Telecommand <div style="text-align: right;">MarkOKUnitB_Hps17</div> TC Control Flags : Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit B HPS17, TC(8,4,116,22) <div style="text-align: right;">GBM IL DSE --Y -- ---</div>	DC98H170	
		Verify Telemetry <div style="text-align: right;">Hps17FailSts DEG68170</div>	= Not_Failed	AND=ZAZ7K999
7		Send TC to enable HPS2 EAT entry		Next Step: END
		Execute Telecommand <div style="text-align: right;">EnableActions</div> Command Parameter(s) : <div style="text-align: right;">N_Repetition DH041170</div> <div style="text-align: right;">APID_for_EAT_TC DH236170</div> <div style="text-align: right;">EventId DH146170</div> TC Control Flags : Subsch. ID : 10 Det. descr. : TEMPLATE Enable Actions TC(19,4) <div style="text-align: right;">GBM IL DSE --Y -- ---</div>	DCT84170	1 <dec> (Def) CDMS (Def) 8023 <hex>
7.1		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.		

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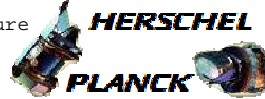
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand ReptEvtActTable <i>TC Control Flags :</i> Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	
		Verify MonId 0x8023 is ENABLED		
<p><i>TC Seq. Name : HRTCLN23 (ConfigHPS3R Nominal)</i> Configure Red. Heater Group 3 as Nom after control loop failure</p> <p><i>TimeTag Type: N</i> <i>Sub Schedule ID:</i></p> <p>□</p>				
8		<i>If GRP16 currently was marked as failed, Send TCs(8,4,116,19) to mark HPS3 as "nominal" in the UIU table</i>		Next Step: 9
		Execute Telecommand SelNomUnitA_Hps3 <i>TC Control Flags :</i> Subsch. ID : 10 Det. descr. : Fdir Select Nominal Unit A HPS3, TC(8,4,116,19)	DC17G170	
		Verify Telemetry Hps3LogSts DEG86170	= Nominal	AND=ZAZ7K999
9		<i>Send TC to Mark HPS16 OK</i>		Next Step: 10
		Execute Telecommand MarkOKUnitB_Hps16 <i>TC Control Flags :</i> Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit B HPS16, TC(8,4,116,22)	DC99H170	
		Verify Telemetry Hps16FailSts DEG64170	= Not_Failed	AND=ZAZ7K999
10		<i>Send TC to enable HPS3 EAT entry</i>		Next Step: END

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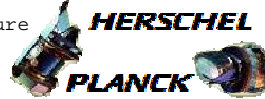
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: right;">EnableActions</p> <i>Command Parameter(s) :</i> N_Repetition DH041170 APID_for_EAT_TC DH236170 EventId DH146170 <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Enable Actions TC(19,4)	DCT84170 1 <dec> (Def) CDMS (Def) 8033 <hex>	
10.1		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	
		Verify MonId 0x8033 is ENABLED		
TC Seq. Name :HRTCLN24 (ConfigHPS4R Nominal) Configure Red. Heater Group 4 as Nom after control loop failure <i>TimeTag Type: N</i> <i>Sub Schedule ID:</i> □				
11		If GRP15 currently was marked as failed, Send TCs(8,4,116,19) to mark HPS4 as "nominal" in the UIU table		Next Step: 12
		Execute Telecommand <p style="text-align: right;">SelNomUnitA_Hps4</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : Fdir Select Nominal Unit A HPS4, TC(8,4,116,19)	DC18G170	
		Verify Telemetry <p style="text-align: right;">Hps4LogSts DEG90170</p>	= Nominal	AND=ZAZ7K999

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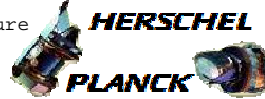
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
12		Send TC to Mark HPS15 OK		Next Step: 13
		Execute Telecommand MarkOKUnitB_Hps15 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit B HPS15, TC(8,4,116,22)	DC00L170	
		Verify Telemetry Hps15FailSts DEG60170	= Not_Failed	AND=ZAZ7K999
13		Send TC to enable HPS4 EAT entry		Next Step: END
		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	
13.1		Send TC(19,6) to acquire the detection list		<input type="checkbox"/>
		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	
		Verify MonId 0x8043 is ENABLED		

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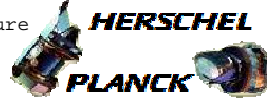
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<p><i>TC Seq. Name : HRTCLN25 (ConfigHPS5R Nominal)</i> Configure Red. Heater Group 5 as Nom after control loop failure</p> <p><i>TimeTag Type: N</i> <i>Sub Schedule ID:</i></p> <p>□</p>				
14		<p><i>If GRP14 currently was marked as failed, Send TCs(8,4,116,19) to mark HPS5 as "nominal" in the UIU table</i></p>		Next Step: 15
		<p>Execute Telecommand</p> <p style="text-align: right;">SelNomUnitA_Hps5</p> <p><i>TC Control Flags :</i></p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <p><i>Subsch. ID : 10</i> <i>Det. descr. : Fdir Select Nominal Unit A HPS5,</i> <i>TC(8,4,116,19)</i></p>	DC19G170	
		<p>Verify Telemetry</p> <p style="text-align: center;">Hps5LogSts DEG94170</p>	= Nominal	AND=ZAZ7K999
15		<p><i>Send TC to Mark HPS14 OK</i></p>		Next Step: 16
		<p>Execute Telecommand</p> <p style="text-align: right;">MarkOKUnitB_Hps14</p> <p><i>TC Control Flags :</i></p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <p><i>Subsch. ID : 10</i> <i>Det. descr. : Fdir Mark OK Unit B HPS14,</i> <i>TC(8,4,116,22)</i></p>	DC01L170	
		<p>Verify Telemetry</p> <p style="text-align: center;">Hps14FailSts DEG56170</p>	= Not_Failed	AND=ZAZ7K999
16		<p><i>Send TC to enable HPS5 EAT entry</i></p>		Next Step: END
		<p>Execute Telecommand</p> <p style="text-align: right;">EnableActions</p> <p><i>Command Parameter(s) :</i></p> <p style="text-align: right;">N_Repetition DH041170 APID_for_EAT_TC DH236170 EventId DH146170</p> <p><i>TC Control Flags :</i></p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <p><i>Subsch. ID : 10</i> <i>Det. descr. : TEMPLATE Enable Actions TC(19,4)</i></p>	DCT84170	

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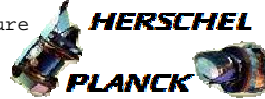
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
16.1		Send TC(19,6) to acquire the detection list		<input type="checkbox"/>
		Report Event Detection List telecommand is a request for a complete detection list; when this request is received, one or more TM(19,7) are generated.		
		Execute Telecommand 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	
		Verify MonId 0x8053 is ENABLED		
TC Seq. Name :HRTCLN26 (ConfigHPS6R Nominal) Configure Red. Heater Group 6 as Nom after control loop failure TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
17		If GRP13 currently was marked as failed, Send TCs(8,4,116,19) to mark HPS6 as "nominal" in the UIU table		Next Step: 18
		Execute Telecommand SelNomUnitA_Hps6 TC Control Flags : GBM IL DSE ---Y --- Subsch. ID : 10 Det. descr. : Fdir Select Nominal Unit A HPS6, TC(8,4,116,19)	DC20G170	
		Verify Telemetry Hps6LogSts DEG98170	= Nominal	AND=ZAZ7K999
18		Send TC to Mark HPS13 OK		Next Step: 19
		Execute Telecommand MarkOKUnitB_Hps13 TC Control Flags : GBM IL DSE ---Y --- Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit B HPS13, TC(8,4,116,22)	DC02L170	

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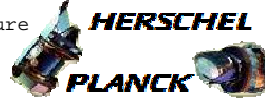
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Hps13FailSts DEG52170	= Not_Failed	AND=ZAZ7K999
19		Send TC to enable HPS6 EAT entry		Next Step: END
		Execute Telecommand EnableActions DCT84170 Command Parameter(s) : N_Repetition DH041170 1 <dec> (Def) APID_for_EAT_TC DH236170 CDMS (Def) EventId DH146170 8063 <hex> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Enable Actions TC(19,4)		
19.1		Send TC(19,6) to acquire the detection list		<input type="checkbox"/>
		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 DCT86170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)		
		Verify MonId 0x8063 is ENABLED		
TC Seq. Name :HRTCLN27 (ConfigHPS7R Nominal) Configure Red. Heater Group 7 as Nom after control loop failure TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
20		If GRP12 currently was marked as failed, Send TCs(8,4,116,19) to mark HPS7 as "nominal" in the UIU table		Next Step: 21

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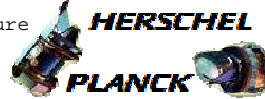
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <div style="text-align: right;">SelNomUnitA_Hps7</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Fdir Select Nominal Unit A HPS7, TC(8,4,116,19)	DC21G170	
		Verify Telemetry <div style="text-align: right;">Hps7LogSts DEH02170</div>	= Nominal	AND=ZAZ7K999
21		Send TC to Mark HPS12 OK		Next Step: 22
		Execute Telecommand <div style="text-align: right;">MarkOKUnitB_Hps12</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit B HPS12, TC(8,4,116,22)	DC03L170	
		Verify Telemetry <div style="text-align: right;">Hps12FailSts DEG48170</div>	= Not_Failed	AND=ZAZ7K999
22		Send TC to enable HPS7 EAT entry		Next Step: END
		Execute Telecommand <div style="text-align: right;">EnableActions</div> Command Parameter(s) : <div style="text-align: right;">N_Repetition DH041170 APID_for_EAT_TC DH236170 EventId DH146170</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : TEMPLATE Enable Actions TC(19,4)	DCT84170	1 <dec> (Def) CDMS (Def) 8073 <hex>
22.1		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.		

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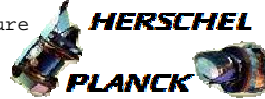
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand ReptEvtActTable TC Control Flags : Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6) GBM IL DSE --Y -- --	DCT86170	
		Verify MonId 0x8073 is ENABLED		
TC Seq. Name :HRTCLN28 (ConfigHPS8R Nominal) Configure Red. Heater Group 8 as Nom after control loop failure TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
23		If GRP11 currently was marked as failed, Send TCs(8,4,116,19) to mark HPS8 as "nominal" in the UIU table		Next Step: 24
		Execute Telecommand SelNomUnitA_Hps8 TC Control Flags : Subsch. ID : 10 Det. descr. : Fdir Select Nominal Unit A HPS8, TC(8,4,116,19) GBM IL DSE --Y -- --	DC22G170	
		Verify Telemetry Hps8LogSts DEH06170	= Nominal	AND=ZAZ7K999
24		Send TC to Mark HPS11 OK		Next Step: 25
		Execute Telecommand MarkOKUnitB_Hps11 TC Control Flags : Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit B HPS11, TC(8,4,116,22) GBM IL DSE --Y -- --	DC04L170	
		Verify Telemetry Hps11FailSts DEG44170	= Not_Failed	AND=ZAZ7K999
25		Send TC to enable HPS8 EAT entry		Next Step: END

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		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 1 <dec> (Def) CDMS (Def) 8083 <hex>	
25.1		Send TC(19,6) to acquire the detection list		<input type="checkbox"/>
		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	
		Verify MonId 0x8083 is ENABLED		
TC Seq. Name :HRTCLN29 (ConfigHPS9R Nominal) Configure Red. Heater Group 9 as Nom after control loop failure TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
26		If GRP10 currently was marked as failed, Send TCs(8,4,116,19) to mark HPS9 as "nominal" in the UIU table		Next Step: 27
		Execute Telecommand SelNomUnitA_Hps9 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Fdir Select Nominal Unit A HPS9, TC(8,4,116,19)	DC23G170	
		Verify Telemetry Hps9LogSts DEH10170	= Nominal	AND=ZAZ7L999

Configure Redundant Heater Group [1 to 9] Nominal after CL failure
 File: H_CRP_TCS_CLN2.xls
 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
27		Send TC to Mark HPS10 OK		Next Step: 28
		Execute Telecommand MarkOKUnitB_Hps10 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Fdir Mark OK Unit B HPS10, TC(8,4,116,22)	DC05L170	
		Verify Telemetry Hps10FailSts DEG40170	= Not_Failed	AND=ZAZ7L999
28		Send TC to enable HPS9 EAT entry		Next Step: END
		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	
28.1		Send TC(19,6) to acquire the detection list		<input type="checkbox"/>
		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	
		Verify MonId 0x8093 is ENABLED		
End of Procedure				