

Restore Ground FCCT parameters
File: H_CRP_TCS_FCCG.xls
Author: E. Picallo



Procedure Summary

Objectives

The aim of this procedure is to restore the Ground limits in the FCCT after the launch in case of DoD (CDMU in Survival Mode) occurs during LEOP.

The FCCT thresholds to be modified on launch pad are indicated (in green) in the table annexed to the procedure.

Summary of Constraints

Some lines will reach the expected temperature quickly while other lines will need more time. This procedure shall be repeated as many times as required ONLY for the thermal control loops that have not reached the expected in-flight temperatures values in case of DoD (CDMU in Survival Mode) occurs during LEOP.

WARNING: before restoring the FCCT limits of any TCS line, make sure that the temperature is already stable within the required range.

Spacecraft Configuration

Start of Procedure

CDMU in Survival Mode (DoD scenario) during LEOP
FDIR management function running
FCCT limits restored to the default (Flight) values

End of Procedure

FDIR management function running
FCCT limits restored to the Ground values (if required)

Reference File(s)

Input Command Sequences

Output Command Sequences

HLTFCCG
HLTFCCG1
HLTFCCG2
HLTFCCG3
HLTFCCG4
HLTFCCG5
HLTFCCG6
HLTFCCG7
HLTFCCG8
HLTFCCG9
HLTFCCGA
HLTFCCGB
HLTFCCGC
HLTFCCGD
HLTFCCGE
HLTFCCGF
HLTFCCGG
HLTFCCGH
HLTFCCGI

Restore Ground FCCT parameters
File: H_CRP_TCS_FCCG.xls
Author: E. Picallo



Referenced Displays

ANDs	GRDs	SLDs
	ZGZ2B999	
	ZGZ2L999	
	ZGZ3B999	
	ZGZ2W999	
	ZGZ35999	
	ZGZ2F999	
	ZGZ2G999	
	ZGZ32999	
	ZGZ2Y999	
	ZGZ2M999	
	ZGZ2D999	
	ZGZ23999	
	ZGZ34999	
	ZGZ36999	
	ZGZ2H999	
	ZGZ2K999	
	ZGZ2P999	
	ZGZ2Q999	

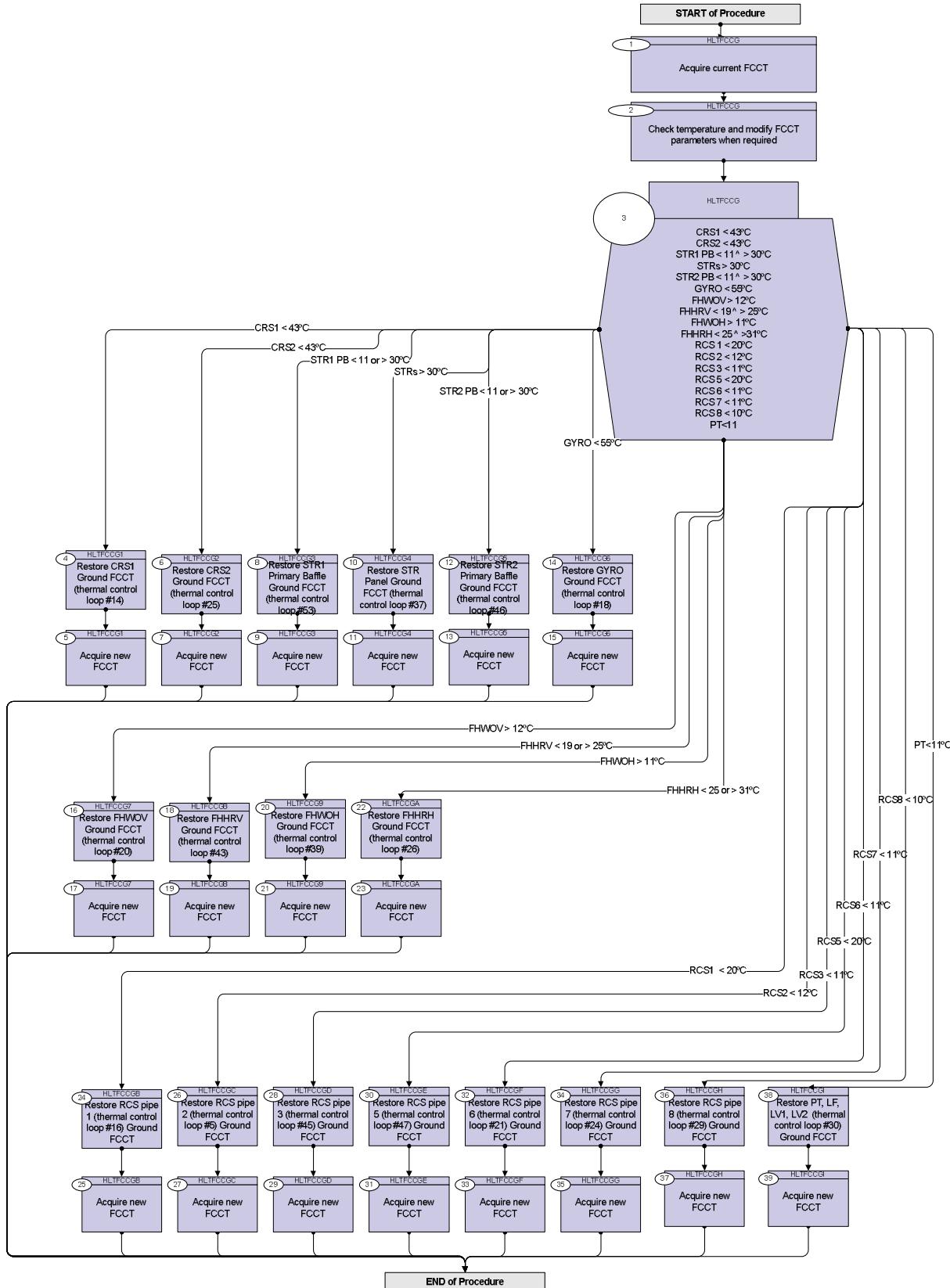
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
29/04/09	2.4	1	Created	E. Picallo	

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Procedure Flowchart Overview



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 File: H_CRP_TCS_FCCG.xls
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
<p>TC Seq. Name : HLTFCCT (Restore Ground FCCT) Restore Ground FCCT parameters Init</p> <p>TimeTag Type: N Sub Schedule ID:</p> <p style="text-align: center;">□</p>				
1		Acquire current FCCT		Next Step: 2
1.1		Send TC(8,5,116) to acquire the status of the function		□
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts TC Control Flags : GBM IL DSE --Y -- --- <i>Subsch. ID : 10</i> <i>Det. descr. : Report Fdir Management Status,</i> <i>TC(8,5,116)</i>	DCN02170	
1.2		Verify that three TM(8,6,116) have been received		□
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 PI1: 29697 PI2: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 PI1: 29698 PI2: 0	FcctRpt2	

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
2		<i>Check temperature and modify FCCT parameters when required</i>		Next Step: 3
2.1		<i>CRS 1 (thermal control loop #14)</i>		<input type="checkbox"/>
		If the parameters in the FCCT are set to the flight values: FDIR LOW_NOP = 43°C FDIR LOW_OP = 43°C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp14_CRS_1 DEA85170		GRD=ZGZ2B999
		If Taverage < 43°C, then restore the Ground limits in the FCCT		
2.2		<i>CRS 2 (thermal control loop #25)</i>		<input type="checkbox"/>
		If the parameters in the FCCT are set to the flight values: FDIR LOW_NOP = 43°C FDIR LOW_OP = 43°C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp25_CRS_2 DEA90170		GRD=ZGZ2L999
		If Taverage < 43°C, then restore the Ground limits in the FCCT		
2.3		<i>STR1 Primary Baffle (thermal control loop #53)</i>		<input type="checkbox"/>
		If the parameters in the FCCT set to the flight values: FDIR LOW_OP = 11°C FDIR HIGH_NOP = 30°C FDIR HIGH_OP = 30 °C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp53_STR1_Baf DEAAC170		GRD=ZGZ3B999
		If Taverage < 11°C or > 30°C, then restore the Ground limits in the FCCT		
2.4		<i>STR Panel (thermal control loop #37)</i>		<input type="checkbox"/>

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		If the parameters in the FCCT are set to the Flight values: FDIR HIGH_NOP = 30°C FDIR HIGH_OP = 30 °C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp37_STRs DEA9C170		GRD=ZGZ2W999
		If Taverage > 30°C, then restore the Ground limits in the FCCT		
2.5		<i>STR2 Primary Baffle (thermal control loop #46)</i>		<input type="checkbox"/>
		If the parameters in the FCCT are set to the Flight values: FDIR LOW_OP = 11°C FDIR HIGH_NOP = 30°C FDIR HIGH_OP = 30 °C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp46_STR2_Baf DEAA5170		GRD=ZGZ35999
		If Taverage < 11°C or > 30°C, then restore the Ground limits in the FCCT		
2.6		<i>GYRO (thermal control loop #18)</i>		<input type="checkbox"/>
		If the parameters in the FCCT are set to the Flight values: FDIR LOW_NOP = 55°C FDIR LOW_OP = 55°C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp18_GYRO DEA89170		GRD=ZGZ2F999
		If Taverage < 55°C, then restore the in-flight default limits in the FCCT		
2.7		<i>FHWOV (thermal control loop #20)</i>		<input type="checkbox"/>
		If the parameters in the FCCT are set to the Flight values: FDIR HIGH_NOP = 12°C FDIR HIGH_OP = 12°C Then, check if the temperature has not reached the expected value on flight yet		

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry ATemp20_FHWOV DEA8B170		GRD=ZGZ2G999
		If Taverage > 12°C, then restore the Ground limits in the FCCT		
2.8		FHHRV (thermal control loop #43)		<input type="checkbox"/>
		If the parameters in the FCCT are set to the Flight values: FDIR LOW_OP = 19°C FDIR HIGH_NOP = 25°C FDIR HIGH_OP = 25°C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp43_FHHRV DEAA2170		GRD=ZGZ32999
		If Taverage < 19°C or > 25°C, then restore the Ground limits in the FCCT		
2.9		FHWOH (thermal control loop #39)		<input type="checkbox"/>
		If the parameters in the FCCT are set to the Flight values: FDIR HIGH_NOP = 11°C FDIR HIGH_OP = 11°C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp39_FHWOH DEA9E170		GRD=ZGZ2Y999
		If Taverage > 11°C, then restore the Ground limits in the FCCT		
2.10		FHHRH (thermal control loop #26)		<input type="checkbox"/>
		If the parameters in the FCCT are set to the Flight values: FDIR LOW_OP = 25°C FDIR HIGH_NOP = 31°C FDIR HIGH_OP = 31 °C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp26_FHHRH DEA91170		GRD=ZGZ2M999
		If Taverage < 25°C or > 31°C, then restore the Ground limits in the FCCT		

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 File: H_CRP_TCS_FCCG.xls
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
2.11		RCS pipe 1 (thermal control loop #16)		<input type="checkbox"/>
		If the parameters in the FCCT are set to the Flight values: FDIR LOW_NOP = 20°C FDIR LOW_OP = 20°C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp16_RCSPipe1 DEA87170		GRD=ZGZ2D999
		If Taverage < 20°C, then restore the Ground limits in the FCCT		
2.12		RCS pipe 2 (thermal control loop #5)		<input type="checkbox"/>
		If the parameters in the FCCT are set to the Flight values: FDIR LOW_NOP = 12°C FDIR LOW_OP = 12°C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp05_RCSPipe2 DEA7C170		GRD=ZGZ23999
		If Taverage < 12°C, then restore the Ground limits in the FCCT		
2.13		RCS pipe 3 (thermal control loop #45)		<input type="checkbox"/>
		If the parameters in the FCCT are set to the Flight values: FDIR LOW_NOP = 11°C FDIR LOW_OP = 11°C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp45_RCSPipe3 DEAA4170		GRD=ZGZ34999
		If Taverage < 11°C, then restore the Ground limits in the FCCT		
2.14		RCS pipe 5 (thermal control loop #47)		<input type="checkbox"/>
		If the parameters in the FCCT are set to the Flight values: FDIR LOW_NOP = 20°C FDIR LOW_OP = 20°C Then, check if the temperature has not reached the expected value on flight yet		

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry ATemp47_RCSPipe5 DEAA6170		GRD=ZGZ36999
		If Taverage < 20°C, then restore the Ground limits in the FCCT		
2.15		RCS pipe 6 (thermal control loop #21)		<input type="checkbox"/>
		If the parameters in the FCCT are set to the Flight values: FDIR LOW_NOP = 11°C FDIR LOW_OP = 11°C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp21_RCSPipe6 DEA8C170		GRD=ZGZ2H999
		If Taverage < 11°C, then restore the Ground limits in the FCCT		
2.16		RCS pipe 7 (thermal control loop #24)		<input type="checkbox"/>
		If the parameters in the FCCT are set to the Flight values: FDIR LOW_NOP = 11°C FDIR LOW_OP = 11°C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp24_RCSPipe7 DEA8F170		GRD=ZGZ2K999
		If Taverage < 11°C, then restore the Ground limits in the FCCT		
2.17		RCS pipe 8 (thermal control loop #29)		<input type="checkbox"/>
		If the parameters in the FCCT are set to the Flight values: FDIR LOW_NOP = 10°C FDIR LOW_OP = 10°C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp29_RCSPipe8 DEA94170		GRD=ZGZ2P999
		If Taverage < 10°C, then restore the Ground limits in the FCCT		
2.18		PT, LF, LV1, LV2 (thermal control loop #30)		<input type="checkbox"/>

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		If the parameters in the FCCT are set to the Flight values: FDIR LOW_NOP = 11°C FDIR LOW_OP = 11°C Then, check if the temperature has not reached the expected value on flight yet		
		Verify Telemetry ATemp30_LV_1_2 DEA95170		GRD=ZGZ2Q999
		If Taverage < 11°C, then restore the Ground limits in the FCCT		
3		CRS1 < 43°C CRS2 < 43°C STR1 PB < 11 ^ > 30°C STRs > 30°C STR2 PB < 11 ^ > 30°C GYRO < 55°C FHWOV > 12°C FHHRV < 19 ^ > 25°C FHWOH > 11°C FHHRH < 25 ^ > 31°C RCS 1 < 20°C RCS 2 < 12°C RCS 3 < 11°C RCS 5 < 20°C	Next Step: CRS1 < 43°C 4 CRS2 < 43°C 6 STR1 PB < 11 or > 30°C 8 STRs > 30°C 10 STR2 PB < 11 or > 30°C 12 GYRO < 55°C 14 FHWOV > 12°C 16 FHHRV < 19 or > 25°C 18 FHWOH > 11°C 20 FHHRH < 25 or > 31°C 22 RCS1 < 20°C 24 RCS2 < 12°C 26 RCS3 < 11°C 28 RCS5 < 20°C 30	
		RCS 6 < 11°C RCS 7 < 11°C RCS 8 < 10°C PT<11		RCS6 < 11°C 32 RCS7 < 11°C 34 RCS8 < 10°C 36 PT<11°C 38
		TC Seq. Name :HLTFCCG1 (Restore CRS1 FCCG) Restore CRS1 Ground FCCT parameters TimeTag Type: N Sub Schedule ID: □		
4		Restore CRS1 Ground FCCT (thermal control loop #14)		Next Step: 5
		Verify Telemetry ATemp14_CRS_1 DEA85170	< 43.0 <dec>	GRD=ZGZ2B999
		If Taverage < 43°C, then restore the Ground limits in the FCCT by sending the following TC		

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand FCCT CRS 1 HPS3 HCS2	ZCC3A999	
		Command Parameter(s) : CCorrParValFlt DH134170 CCorrParValFlt DH134170 CCorrParValUInt DH133170 CCorrParValFlt DH134170 CCorrParValFlt DH134170 CCorrParValFlt DH134170	8.0 <dec> (Def) 52.0 <dec> (Def) 64800 <dec> (Def) 8.0 <dec> (Def) 8.0 <dec> (Def) 52.0 <dec> (Def)	
		TC Control Flags : GBM IL DSE --Y -- ---		
		Subsch. ID : 10		
		Det. descr. : FCCT CRS 1 HPS3 HCS2 CrCorrChkPar TC(8,4,116,17) Id=ChkId_32		
5		Acquire new FCCT		Next Step: END
5.1		Send TC(8,5,116) to acquire the status of the function		<input type="checkbox"/>
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts	DCN02170	
		TC Control Flags : GBM IL DSE --Y -- ---		
		Subsch. ID : 10 Det. descr. : Report Fdir Management Status, TC(8,5,116)		
5.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 P11: 29697 P12: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 P11: 29698 P12: 0	FcctRpt2	

TC Seq. Name :HLTFCCG2 (Restore CRS2 FCCG)
 Restore CRS2 Ground FCCT parameters

TimeTag Type: N
 Sub Schedule ID:

□

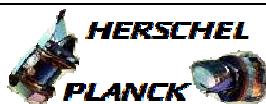
6		Restore CRS2 Ground FCCT (thermal control loop #25)		Next Step: 7
		Verify Telemetry ATemp25_CRS_2 DEA90170 < 43.0 <dec>		GRD=ZGZ2L999
		If Taverage < 43°C, then restore the Ground limits in the FCCT by sending the following TC		
		Execute Telecommand FCCT_CRS_2_HPS5_HCS1 <i>Command Parameter(s) :</i> CCorrParValFlt DH134170 8.0 <dec> (Def) CCorrParValFlt DH134170 52.0 <dec> (Def) CCorrParValUInt DH133170 64800 <dec> (Def) CCorrParValFlt DH134170 8.0 <dec> (Def) CCorrParValFlt DH134170 8.0 <dec> (Def) CCorrParValFlt DH134170 52.0 <dec> (Def) <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID :</i> 10 Det. descr. : FCCT_CRS_2_HPS5_HCS1 CrCorrChkPar TC(8,4,116,17) Id=ChkId_43	ZCC3L999	
7		Acquire new FCCT		Next Step: END
7.1		Send TC(8,5,116) to acquire the status of the function		□

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts TC Control Flags : GBM IL DSE ---Y -- --- Subsch. ID : 10 Det. descr. : Report Fdir Management Status, TC(8,5,116)	DCN02170	
7.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29697 PI2: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29698 PI2: 0	FcctRpt2	
TC Seq. Name :HLTFCCG3 (Restore STR1 PB FCCG) Restore STR1 PB Ground FCCT parameters TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
8		Restore STR1 Primary Baffle Ground FCCT (thermal control loop #53)		Next Step: 9
		Verify Telemetry ATemp53_STR1_Baf	DEAAC170	< 11.0 <dec> > 30.0 <dec>
				GRD=ZGZ3B999

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																								
		If Taverage < 11°C or > 30°C, then restore the Ground limits in the FCCT by sending the following TC																										
		Execute Telecommand FCCT_STR1_PRBF_HPS9_HCS5 <i>Command Parameter(s) :</i> <table> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>-23.5 <dec> (Def)</td></tr> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>40.0 <dec> (Def)</td></tr> <tr><td>CCorrParValUInt</td><td>DH133170</td><td>64800 <dec> (Def)</td></tr> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>-23.5 <dec> (Def)</td></tr> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>8.0 <dec> (Def)</td></tr> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>40.0 <dec> (Def)</td></tr> </table> <i>TC Control Flags :</i> <table> <tr><td>GBM</td><td>IL</td><td>DSE</td></tr> <tr><td>--Y</td><td>--</td><td>--</td></tr> </table> <i>Subsch. ID : 10</i> <i>Det. descr. : FCCT_STR1_PRBF_HPS9_HCS5 CrCorrChkPar</i> <i>TC(8,4,116,17) Id=ChkId_71</i>	CCorrParValFlt	DH134170	-23.5 <dec> (Def)	CCorrParValFlt	DH134170	40.0 <dec> (Def)	CCorrParValUInt	DH133170	64800 <dec> (Def)	CCorrParValFlt	DH134170	-23.5 <dec> (Def)	CCorrParValFlt	DH134170	8.0 <dec> (Def)	CCorrParValFlt	DH134170	40.0 <dec> (Def)	GBM	IL	DSE	--Y	--	--	ZCC4D999	
CCorrParValFlt	DH134170	-23.5 <dec> (Def)																										
CCorrParValFlt	DH134170	40.0 <dec> (Def)																										
CCorrParValUInt	DH133170	64800 <dec> (Def)																										
CCorrParValFlt	DH134170	-23.5 <dec> (Def)																										
CCorrParValFlt	DH134170	8.0 <dec> (Def)																										
CCorrParValFlt	DH134170	40.0 <dec> (Def)																										
GBM	IL	DSE																										
--Y	--	--																										
9		Acquire new FCCT		Next Step: END																								
9.1		<i>Send TC(8,5,116) to acquire the status of the function</i>		<input type="checkbox"/>																								
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".																										
		Execute Telecommand ReportFdirManagSts <i>TC Control Flags :</i> <table> <tr><td>GBM</td><td>IL</td><td>DSE</td></tr> <tr><td>--Y</td><td>--</td><td>--</td></tr> </table> <i>Subsch. ID : 10</i> <i>Det. descr. : Report Fdir Management Status,</i> <i>TC(8,5,116)</i>	GBM	IL	DSE	--Y	--	--	DCN02170																			
GBM	IL	DSE																										
--Y	--	--																										
9.2		<i>Verify that three TM(8,6,116) have been received</i>		<input type="checkbox"/>																								
		<i>Verify Packet Reception (assumed FDIR function is started)</i> TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF <i>Packet Details:</i> <table> <tr><td>APID:</td><td>16</td></tr> <tr><td>Type:</td><td>8</td></tr> <tr><td>Subtype:</td><td>6</td></tr> <tr><td>PI1:</td><td>29951</td></tr> <tr><td>PI2:</td><td>0</td></tr> </table>	APID:	16	Type:	8	Subtype:	6	PI1:	29951	PI2:	0	FdirMngRun															
APID:	16																											
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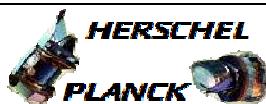
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 P11: 29697 P12: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 P11: 29698 P12: 0	FcctRpt2	
		TC Seq. Name :HLTFCCG4 (Restore STRs FCCG) Restore STRs Panel Ground FCCT parameters <i>TimeTag Type: N</i> <i>Sub Schedule ID:</i> <input type="checkbox"/>		
10		Restore STR Panel Ground FCCT (thermal control loop #37)		Next Step: 11
		Verify Telemetry ATemp37_STRs DEA9C170 > 30.0 <dec>		GRD=ZGZ2W999
		If Taverage > 30°C, then restore the Ground limits in the FCCT by sending the following TC		
		Execute Telecommand FCCT_STRs_HPS7_HCS1 ZCC3Y999 <i>Command Parameter(s) :</i> CCorrParValFlt DH134170 -10.0 <dec> (Def) CCorrParValFlt DH134170 40.0 <dec> (Def) CCorrParValUInt DH133170 64800 <dec> (Def) CCorrParValFlt DH134170 -10.0 <dec> (Def) CCorrParValFlt DH134170 -3.0 <dec> (Def) CCorrParValFlt DH134170 40.0 <dec> (Def) <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID : 10</i> <i>Det. descr. : FCCT_STRs_HPS7_HCS1 CrCorrChkPar</i> <i>TC(8,4,116,17) Id=ChkId_55</i>		
11		Acquire new FCCT		Next Step: END

Restore Ground FCCT parameters
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 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
11.1		Send TC(8,5,116) to acquire the status of the function		<input type="checkbox"/>
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts TC Control Flags : GBM IL DSE ---Y -- --- Subsch. ID : 10 Det. descr. : Report Fdir Management Status, TC(8,5,116)	DCN02170	
11.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29697 PI2: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29698 PI2: 0	FcctRpt2	
		TC Seq. Name :HLTFCCG5 (Restore STR2 PB FCCG) Restore STR2 PB Ground FCCT parameters TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>		
12		Restore STR2 Primary Baffle Ground FCCT (thermal control loop #46)		Next Step: 13

Restore Ground FCCT parameters
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry ATemp46_STR2_Baf	DEAA5170	< 11.0 <dec> > 30.0 <dec>
		If Taverage < 11°C or > 30°C, then restore the Ground limits in the FCCT by sending the following TC		
		Execute Telecommand FCCT_STR2_PRBF_HPS8_HCS4 Command Parameter(s) : CCorrParValFlt DH134170 -23.5 <dec> (Def) CCorrParValFlt DH134170 40.0 <dec> (Def) CCorrParValUInt DH133170 64800 <dec> (Def) CCorrParValFlt DH134170 -23.5 <dec> (Def) CCorrParValFlt DH134170 8.0 <dec> (Def) CCorrParValFlt DH134170 40.0 <dec> (Def) TC Control Flags : GBM IL DSE ---Y --- --- Subsch. ID : 10 Det. descr. : FCCT_STR2_PRBF_HPS8_HCS4 CrCorrChkPar TC(8,4,116,17) Id=ChkId_64	ZCC47999	
13		Acquire new FCCT		Next Step: END
13.1		Send TC(8,5,116) to acquire the status of the function		<input type="checkbox"/>
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts TC Control Flags : GBM IL DSE ---Y --- --- Subsch. ID : 10 Det. descr. : Report Fdir Management Status, TC(8,5,116)	DCN02170	
13.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>

Restore Ground FCCT parameters
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 PI1: 29697 PI2: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 PI1: 29698 PI2: 0	FcctRpt2	

TC Seq. Name :HLTFCCG6 (Restore Gyro FCCG) Restore Gyro Ground FCCT parameters TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
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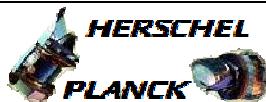
14		Restore GYRO Ground FCCT (thermal control loop #18)		Next Step: 15
		Verify Telemetry ATemp18_GYRO DEA89170	< 55.0 <dec>	GRD=ZGZ2F999
		If Taverage < 55°C, then restore the Ground limits in the FCCT by sending the following TC		
		Execute Telecommand FCCT_GYRO_HPS3_HCS6 <i>Command Parameter(s) :</i> CCorrParValFlt DH134170 8.0 <dec> (Def) CCorrParValFlt DH134170 65.0 <dec> (Def) CCorrParValUInt DH133170 64800 <dec> (Def) CCorrParValFlt DH134170 8.0 <dec> (Def) CCorrParValFlt DH134170 8.0 <dec> (Def) CCorrParValFlt DH134170 65.0 <dec> (Def) <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID : 10</i>	ZCC3E999	

Restore Ground FCCT parameters
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Det. descr. : FCCT_GYRO_HPS3_HCS6 CrCorrChkPar TC(8,4,116,17) Id=ChkId_36		
15		Acquire new FCCT		Next Step: END
15.1		Send TC(8,5,116) to acquire the status of the function		<input type="checkbox"/>
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts TC Control Flags : GBM IL DSE ---Y --- --- Subsch. ID : 10 Det. descr. : Report Fdir Management Status, TC(8,5,116)	DCN02170	
15.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29697 PI2: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29698 PI2: 0	FcctRpt2	

Restore Ground FCCT parameters
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																		
		<p>TC Seq. Name :HLTFCCG7 (Restore FHWOV FCCG) Restore FHWOV Ground FCCT parameters</p> <p>TimeTag Type: N Sub Schedule ID:</p> <p style="text-align: center;">□</p>																				
16		Restore FHWOV Ground FCCT (thermal control loop #20)		Next Step: 17																		
		<p>Verify Telemetry</p> <p style="text-align: center;">ATemp20_FHWOV DEA8B170</p> <p style="text-align: right;">> 12.0 <dec></p>		GRD=ZGZ2G999																		
		If Taverage > 12°C, then restore the Ground limits in the FCCT by sending the following TC																				
		<p>Execute Telecommand</p> <p style="text-align: center;">FCCT_FHWOV_HPS4_HCS2</p> <p><i>Command Parameter(s) :</i></p> <table> <tbody> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>-20.0 <dec> (Def)</td></tr> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>30.0 <dec> (Def)</td></tr> <tr><td>CCorrParValUInt</td><td>DH133170</td><td>64800 <dec> (Def)</td></tr> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>-20.0 <dec> (Def)</td></tr> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>2.0 <dec> (Def)</td></tr> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>30.0 <dec> (Def)</td></tr> </tbody> </table> <p><i>TC Control Flags :</i></p> <p style="text-align: center;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 10</p> <p>Det. descr. : FCCT_FHWOV_HPS4_HCS2 CrCorrChkPar TC(8,4,116,17) Id=ChkId_38</p>	CCorrParValFlt	DH134170	-20.0 <dec> (Def)	CCorrParValFlt	DH134170	30.0 <dec> (Def)	CCorrParValUInt	DH133170	64800 <dec> (Def)	CCorrParValFlt	DH134170	-20.0 <dec> (Def)	CCorrParValFlt	DH134170	2.0 <dec> (Def)	CCorrParValFlt	DH134170	30.0 <dec> (Def)		
CCorrParValFlt	DH134170	-20.0 <dec> (Def)																				
CCorrParValFlt	DH134170	30.0 <dec> (Def)																				
CCorrParValUInt	DH133170	64800 <dec> (Def)																				
CCorrParValFlt	DH134170	-20.0 <dec> (Def)																				
CCorrParValFlt	DH134170	2.0 <dec> (Def)																				
CCorrParValFlt	DH134170	30.0 <dec> (Def)																				
17		Acquire new FCCT		Next Step: END																		
17.1		Send TC(8,5,116) to acquire the status of the function		□																		
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".																				
		<p>Execute Telecommand</p> <p style="text-align: center;">ReportFdirManagSts</p> <p><i>TC Control Flags :</i></p> <p style="text-align: center;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 10</p> <p>Det. descr. : Report Fdir Management Status, TC(8,5,116)</p>	DCN02170																			

Restore Ground FCCT parameters
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 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch										
17.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>										
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF <i>Packet Details:</i> <table style="margin-left: 200px;"> <tr><td>APID:</td><td>16</td></tr> <tr><td>Type:</td><td>8</td></tr> <tr><td>Subtype:</td><td>6</td></tr> <tr><td>PI1:</td><td>29951</td></tr> <tr><td>PI2:</td><td>0</td></tr> </table>	APID:	16	Type:	8	Subtype:	6	PI1:	29951	PI2:	0	FdirMngRun	
APID:	16													
Type:	8													
Subtype:	6													
PI1:	29951													
PI2:	0													
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 <i>Packet Details:</i> <table style="margin-left: 200px;"> <tr><td>APID:</td><td>16</td></tr> <tr><td>Type:</td><td>8</td></tr> <tr><td>Subtype:</td><td>6</td></tr> <tr><td>PI1:</td><td>29697</td></tr> <tr><td>PI2:</td><td>0</td></tr> </table>	APID:	16	Type:	8	Subtype:	6	PI1:	29697	PI2:	0	FcctRpt1	
APID:	16													
Type:	8													
Subtype:	6													
PI1:	29697													
PI2:	0													
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 <i>Packet Details:</i> <table style="margin-left: 200px;"> <tr><td>APID:</td><td>16</td></tr> <tr><td>Type:</td><td>8</td></tr> <tr><td>Subtype:</td><td>6</td></tr> <tr><td>PI1:</td><td>29698</td></tr> <tr><td>PI2:</td><td>0</td></tr> </table>	APID:	16	Type:	8	Subtype:	6	PI1:	29698	PI2:	0	FcctRpt2	
APID:	16													
Type:	8													
Subtype:	6													
PI1:	29698													
PI2:	0													

TC Seq. Name :HLTFCCG8 (Restore FHHRV FCCG)
 Restore FHHRV Ground FCCT parameters

TimeTag Type: N
 Sub Schedule ID:

18		Restore FHHRV Ground FCCT (thermal control loop #43)		Next Step: 19
		Verify Telemetry ATemp43_FHHRV DEAA2170 $< 19.0 \text{ <dec>} \text{ > } 25.0 \text{ <dec>}$		GRD=ZGZ32999
		If Taverage < 19°C or > 25°C, then restore the Ground limits in the FCCT by sending the following TC		

Restore Ground FCCT parameters
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand FCCT_FHHRV_HPS8_HCS1	ZCC44999	
		Command Parameter(s) : CCorrParValFlt DH134170 -25.0 <dec> (Def) CCorrParValFlt DH134170 40.0 <dec> (Def) CCorrParValUInt DH133170 64800 <dec> (Def) CCorrParValFlt DH134170 -25.0 <dec> (Def) CCorrParValFlt DH134170 8.0 <dec> (Def) CCorrParValFlt DH134170 40.0 <dec> (Def)		
		TC Control Flags : GBM IL DSE --Y -- ---		
		Subsch. ID : 10		
		Det. descr. : FCCT_FHHRV_HPS8_HCS1 CrCorrChkPar TC(8,4,116,17) Id=ChkId_61		
19		Acquire new FCCT		Next Step: END
19.1		Send TC(8,5,116) to acquire the status of the function		<input type="checkbox"/>
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts	DCN02170	
		TC Control Flags : GBM IL DSE --Y -- ---		
		Subsch. ID : 10 Det. descr. : Report Fdir Management Status, TC(8,5,116)		
19.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
 Author: E. Picallo



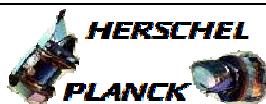
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 P11: 29697 P12: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 P11: 29698 P12: 0	FcctRpt2	
		TC Seq. Name :HLTFCCG9 (Restore FHWOH FCCG) Restore FHWOH Ground FCCT parameters <i>TimeTag Type: N</i> <i>Sub Schedule ID:</i> <input type="checkbox"/>		
20		Restore FHWOH Ground FCCT (thermal control loop #39)		Next Step: 21
		Verify Telemetry ATemp39_FHWOH DEA9E170 > 11.0 <dec>		GRD=ZGZ2Y999
		If Taverage > 11°C, then restore the Ground limits in the FCCT by sending the following TC		
		Execute Telecommand FCCT_FHWOH_HPS7_HCS3 ZCC40999 <i>Command Parameter(s) :</i> CCorrParValFlt DH134170 -15.0 <dec> (Def) CCorrParValFlt DH134170 30.0 <dec> (Def) CCorrParValUInt DH133170 64800 <dec> (Def) CCorrParValFlt DH134170 -15.0 <dec> (Def) CCorrParValFlt DH134170 1.0 <dec> (Def) CCorrParValFlt DH134170 30.0 <dec> (Def) <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID : 10</i> <i>Det. descr. : FCCT_FHWOH_HPS7_HCS3 CrCorrChkPar</i> <i>TC(8,4,116,17) Id=ChkId_57</i>		
21		Acquire new FCCT		Next Step: END

Restore Ground FCCT parameters
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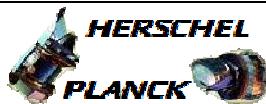
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
21.1		Send TC(8,5,116) to acquire the status of the function		<input type="checkbox"/>
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts TC Control Flags : GBM IL DSE ---Y -- --- Subsch. ID : 10 Det. descr. : Report Fdir Management Status, TC(8,5,116)	DCN02170	
21.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29697 PI2: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29698 PI2: 0	FcctRpt2	
		TC Seq. Name :HLTFCCGA (Restore FHRRH FCCG) Restore FHRRH Ground FCCT parameters TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>		
22		Restore FHRRH Ground FCCT (thermal control loop #26)		Next Step: 23

Restore Ground FCCT parameters
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry ATemp26_FHRRH	DEA91170	< 25.0 <dec> > 31.0 <dec>
		If Taverage < 25°C or > 31°C, then restore the Ground limits in the FCCT by sending the following TC		
		Execute Telecommand FCCT_FHRRH_HPS5_HCS2 Command Parameter(s) : CCorrParValFlt DH134170 CCorrParValFlt DH134170 CCorrParValUInt DH133170 CCorrParValFlt DH134170 CCorrParValFlt DH134170 CCorrParValFlt DH134170 TC Control Flags : GBM IL DSE ---Y --- --- Subsch. ID : 10 Det. descr. : FCCT_FHRRH_HPS5_HCS2 CrCorrChkPar TC(8,4,116,17) Id=ChkId_44	ZCC3M999	-22.0 <dec> (Def) 40.0 <dec> (Def) 64800 <dec> (Def) -22.0 <dec> (Def) 8.0 <dec> (Def) 40.0 <dec> (Def)
23		Acquire new FCCT		Next Step: END
23.1		Send TC(8,5,116) to acquire the status of the function		<input type="checkbox"/>
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts TC Control Flags : GBM IL DSE ---Y --- --- Subsch. ID : 10 Det. descr. : Report Fdir Management Status, TC(8,5,116)	DCN02170	
23.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>

Restore Ground FCCT parameters
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 PI1: 29697 PI2: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 PI1: 29698 PI2: 0	FcctRpt2	

*TC Seq. Name :HLTFCGGB (RestoreRCSpipe1 FCCG)
Restore RCS pipes (control loop 16) Ground FCCT
parameters*

TimeTag Type: N
Sub Schedule ID:

1

24		<i>Restore RCS pipe 1 (thermal control loop #16) Ground FCCT</i>		Next Step: 25
		Verify Telemetry ATemp16_RCSpipe1	DEA87170	< 20.0 <dec>
		If Taverage < 20°C, then restore the Ground limits in the FCCT by sending the following TC		
		Execute Telecommand FCCT_RCS_pipe1_HPS3_HCS4	ZCC3C999	
		<i>Command Parameter(s) :</i>		
		CCorrParValFlt	DH134170	8.0 <dec> (Def)
		CCorrParValFlt	DH134170	52.0 <dec> (Def)
		CCorrParValUInt	DH133170	64800 <dec> (Def)
		CCorrParValFlt	DH134170	8.0 <dec> (Def)
		CCorrParValFlt	DH134170	8.0 <dec> (Def)
		CCorrParValFlt	DH134170	52.0 <dec> (Def)
		<i>TC Control Flags :</i>		
			GBM IL DSE	
			--Y -- ---	
		<i>Subsch. ID : 10</i>		

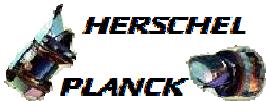
Status : Version 1 - Unchanged
Last Checkin: 29/04/09

Restore Ground FCCT parameters
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 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Det. descr. : FCCT_RCS pipel_HPS3_HCS4 CrCorrChkPar TC(8,4,116,17) Id=ChkId_34		
25		Acquire new FCCT		Next Step: END
25.1		Send TC(8,5,116) to acquire the status of the function		<input type="checkbox"/>
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Report Fdir Management Status, TC(8,5,116)	DCN02170	
25.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29697 PI2: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29698 PI2: 0	FcctRpt2	

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																						
		<p>TC Seq. Name : HLTFCGC (RestoreRCSpipe2 FCCG) Restore RCS pipes (control loop 5) Ground FCCT parameters</p> <p>TimeTag Type: N Sub Schedule ID:</p> <p style="text-align: center;">□</p>																								
26		<p>Restore RCS pipe 2 (thermal control loop #5) Ground FCCT</p>		Next Step: 27																						
		<p>Verify Telemetry</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">ATemp05_RCS Pipe2</td> <td style="width: 30%;">DEA7C170</td> <td style="width: 40%; text-align: right;">< 12.0 <dec></td> </tr> </table>	ATemp05_RCS Pipe2	DEA7C170	< 12.0 <dec>		GRD=ZGZ23999																			
ATemp05_RCS Pipe2	DEA7C170	< 12.0 <dec>																								
		<p>If Taverage < 12°C, then restore the Ground limits in the FCCT by sending the following TC</p>																								
		<p>Execute Telecommand</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">FCCT_RCS pipe2_HPS1_HCS5</td> <td style="width: 30%;">ZCC33999</td> </tr> </table> <p>Command Parameter(s) :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">CCorrParValFlt</td> <td style="width: 30%;">DH134170</td> <td>8.0 <dec> (Def)</td> </tr> <tr> <td>CCorrParValFlt</td> <td>DH134170</td> <td>52.0 <dec> (Def)</td> </tr> <tr> <td>CCorrParValUInt</td> <td>DH133170</td> <td>64800 <dec> (Def)</td> </tr> <tr> <td>CCorrParValFlt</td> <td>DH134170</td> <td>8.0 <dec> (Def)</td> </tr> <tr> <td>CCorrParValFlt</td> <td>DH134170</td> <td>8.0 <dec> (Def)</td> </tr> <tr> <td>CCorrParValFlt</td> <td>DH134170</td> <td>52.0 <dec> (Def)</td> </tr> </table> <p>TC Control Flags :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">GBM IL DSE</td> <td style="width: 30%; text-align: right;">---Y ---</td> </tr> </table> <p>Subsch. ID : 10</p> <p>Det. descr. : FCCT_RCS pipe2_HPS1_HCS5 CrCorrChkPar TC(8,4,116,17) Id=ChkId_23</p>	FCCT_RCS pipe2_HPS1_HCS5	ZCC33999	CCorrParValFlt	DH134170	8.0 <dec> (Def)	CCorrParValFlt	DH134170	52.0 <dec> (Def)	CCorrParValUInt	DH133170	64800 <dec> (Def)	CCorrParValFlt	DH134170	8.0 <dec> (Def)	CCorrParValFlt	DH134170	8.0 <dec> (Def)	CCorrParValFlt	DH134170	52.0 <dec> (Def)	GBM IL DSE	---Y ---		
FCCT_RCS pipe2_HPS1_HCS5	ZCC33999																									
CCorrParValFlt	DH134170	8.0 <dec> (Def)																								
CCorrParValFlt	DH134170	52.0 <dec> (Def)																								
CCorrParValUInt	DH133170	64800 <dec> (Def)																								
CCorrParValFlt	DH134170	8.0 <dec> (Def)																								
CCorrParValFlt	DH134170	8.0 <dec> (Def)																								
CCorrParValFlt	DH134170	52.0 <dec> (Def)																								
GBM IL DSE	---Y ---																									
27		Acquire new FCCT		Next Step: END																						
27.1		<p>Send TC(8,5,116) to acquire the status of the function</p>		□																						
		<p>Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".</p>																								
		<p>Execute Telecommand</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">ReportFdirManagSts</td> <td style="width: 30%;">DCN02170</td> </tr> </table> <p>TC Control Flags :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">GBM IL DSE</td> <td style="width: 30%; text-align: right;">---Y ---</td> </tr> </table> <p>Subsch. ID : 10</p> <p>Det. descr. : Report Fdir Management Status, TC(8,5,116)</p>	ReportFdirManagSts	DCN02170	GBM IL DSE	---Y ---																				
ReportFdirManagSts	DCN02170																									
GBM IL DSE	---Y ---																									

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch										
27.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>										
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF <i>Packet Details:</i> <table> <tr><td>APID:</td><td>16</td></tr> <tr><td>Type:</td><td>8</td></tr> <tr><td>Subtype:</td><td>6</td></tr> <tr><td>PI1:</td><td>29951</td></tr> <tr><td>PI2:</td><td>0</td></tr> </table>	APID:	16	Type:	8	Subtype:	6	PI1:	29951	PI2:	0	FdirMngRun	
APID:	16													
Type:	8													
Subtype:	6													
PI1:	29951													
PI2:	0													
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 <i>Packet Details:</i> <table> <tr><td>APID:</td><td>16</td></tr> <tr><td>Type:</td><td>8</td></tr> <tr><td>Subtype:</td><td>6</td></tr> <tr><td>PI1:</td><td>29697</td></tr> <tr><td>PI2:</td><td>0</td></tr> </table>	APID:	16	Type:	8	Subtype:	6	PI1:	29697	PI2:	0	FcctRpt1	
APID:	16													
Type:	8													
Subtype:	6													
PI1:	29697													
PI2:	0													
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 <i>Packet Details:</i> <table> <tr><td>APID:</td><td>16</td></tr> <tr><td>Type:</td><td>8</td></tr> <tr><td>Subtype:</td><td>6</td></tr> <tr><td>PI1:</td><td>29698</td></tr> <tr><td>PI2:</td><td>0</td></tr> </table>	APID:	16	Type:	8	Subtype:	6	PI1:	29698	PI2:	0	FcctRpt2	
APID:	16													
Type:	8													
Subtype:	6													
PI1:	29698													
PI2:	0													
		TC Seq. Name :HLTFCCGD (RestoreRCSpipe3 FCCG) Restore RCS pipes (control loop 45) Ground FCCT parameters <i>TimeTag Type: N</i> <i>Sub Schedule ID:</i> <input type="checkbox"/>												
28		Restore RCS pipe 3 (thermal control loop #45) Ground FCCT		Next Step: 29										
		Verify Telemetry ATemp45_RCSPipe3 DEAA4170	< 11.0 <dec>	GRD=ZGZ34999										
		If Taverage < 11°C, then restore the Ground limits in the FCCT by sending the following TC												

Restore Ground FCCT parameters
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 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand FCCT_RCS pipe3_HPS8_HCS3	ZCC46999	
		Command Parameter(s) : CCorrParValFlt DH134170 CCorrParValFlt DH134170 CCorrParValUInt DH133170 CCorrParValFlt DH134170 CCorrParValFlt DH134170 CCorrParValFlt DH134170	8.0 <dec> (Def) 52.0 <dec> (Def) 64800 <dec> (Def) 8.0 <dec> (Def) 8.0 <dec> (Def) 52.0 <dec> (Def)	
		TC Control Flags : GBM IL DSE ---Y --- ---		
		Subsch. ID : 10		
		Det. descr. : FCCT_RCS pipe3_HPS8_HCS3 CrCorrChkPar TC(8,4,116,17) Id=ChkId_63		
29		Acquire new FCCT		Next Step: END
29.1		Send TC(8,5,116) to acquire the status of the function		<input type="checkbox"/>
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts	DCN02170	
		TC Control Flags : GBM IL DSE ---Y --- ---		
		Subsch. ID : 10 Det. descr. : Report Fdir Management Status, TC(8,5,116)		
29.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 P11: 29697 P12: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 P11: 29698 P12: 0	FcctRpt2	
		TC Seq. Name :HLTFCCGE (RestoreRCSpipe5 FCCG) Restore RCS pipes (control loop 47) Ground FCCT parameters TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>		
30		Restore RCS pipe 5 (thermal control loop #47) Ground FCCT		Next Step: 31
		Verify Telemetry ATemp47_RCSPIPE5 DEAA6170	< 20.0 <dec>	GRD=ZGZ36999
		If Taverage < 20°C, then restore the Ground limits in the FCCT by sending the following TC		
		Execute Telecommand FCCT_RCS_pipe5_HPS8_HCS5 <i>Command Parameter(s) :</i> CCorrParValFlt DH134170 8.0 <dec> (Def) CCorrParValFlt DH134170 52.0 <dec> (Def) CCorrParValUInt DH133170 64800 <dec> (Def) CCorrParValFlt DH134170 8.0 <dec> (Def) CCorrParValFlt DH134170 8.0 <dec> (Def) CCorrParValFlt DH134170 52.0 <dec> (Def) <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID : 10</i> <i>Det. descr. : FCCT_RCS_pipe5_HPS8_HCS5 CrCorrChkPar</i> <i>TC(8,4,116,17) Id=ChkId_65</i>	ZCC48999	
31		Acquire new FCCT		Next Step: END

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
 Author: E. Picallo



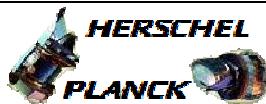
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
31.1		<i>Send TC(8,5,116) to acquire the status of the function</i>		<input type="checkbox"/>
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts TC Control Flags : GBM IL DSE ---Y -- --- Subsch. ID : 10 Det. descr. : Report Fdir Management Status, TC(8,5,116)	DCN02170	
31.2		<i>Verify that three TM(8,6,116) have been received</i>		<input type="checkbox"/>
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29697 PI2: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29698 PI2: 0	FcctRpt2	
		TC Seq. Name :HLTFCCGF (RestoreRCSpipe6 FCCG) Restore RCS pipes (control loop 21) Ground FCCT parameters TimeTag Type: N Sub Schedule ID:		
				<input type="checkbox"/>

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
32		Restore RCS pipe 6 (thermal control loop #21) Ground FCCT		Next Step: 33
		Verify Telemetry ATemp21_RCSPipe6	DEA8C170	< 11.0 <dec>
		If Taverage < 11°C, then restore the Ground limits in the FCCT by sending the following TC		
		Execute Telecommand FCCT_RCS_pipe6_HPS4_HCS3 Command Parameter(s) : CCorrParValFlt DH134170 CCorrParValFlt DH134170 CCorrParValUInt DH133170 CCorrParValFlt DH134170 CCorrParValFlt DH134170 CCorrParValFlt DH134170 TC Control Flags : GBM IL DSE ---Y --- Subsch. ID : 10 Det. descr. : FCCT_RCS_pipe6_HPS4_HCS3 CrCorrChkPar TC(8,4,116,17) Id=ChkId_39	ZCC3G999	
33		Acquire new FCCT		Next Step: END
33.1		Send TC(8,5,116) to acquire the status of the function		<input type="checkbox"/>
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts TC Control Flags : GBM IL DSE ---Y --- Subsch. ID : 10 Det. descr. : Report Fdir Management Status, TC(8,5,116)	DCN02170	
33.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>

Restore Ground FCCT parameters
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Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 PI1: 29697 PI2: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 PI1: 29698 PI2: 0	FcctRpt2	

TC Seq. Name :HLTFCCGG (RestoreRCSpipe7 FCCG)
Restore RCS pipes (control loop 24) Ground FCCT
parameters

TimeTag Type: N
Sub Schedule ID:

34	<i>Restore RCS pipe 7 (thermal control loop #24) Ground FCCT</i>			Next Step: 35
	<i>Verify Telemetry</i> ATemp24_RCSPipe7	DEA8F170	< 11.0 <dec>	GRD=ZGZ2K999
	<i>If Taverage < 11°C, then restore the Ground limits in the FCCT by sending the following TC</i>			
	<i>Execute Telecommand</i> FCCT_RCS_pipe7_HPS4_HCS6		ZCC3K999	

Status : Version 1 - Unchanged
Last Checkin: 29/04/09

Restore Ground FCCT parameters
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 Author: E. Picallo



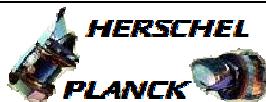
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Det. descr. : FCCT_RCS pipe7_HPS4_HCS6 CrCorrChkPar TC(8,4,116,17) Id=ChkId_42		
35		Acquire new FCCT		Next Step: END
35.1		Send TC(8,5,116) to acquire the status of the function		<input type="checkbox"/>
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts TC Control Flags : GBM IL DSE ---Y --- --- Subsch. ID : 10 Det. descr. : Report Fdir Management Status, TC(8,5,116)	DCN02170	
35.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29697 PI2: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29698 PI2: 0	FcctRpt2	

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																		
		<p>TC Seq. Name : HLTFCGH (RestoreRCSpipe8 FCCG) Restore RCS pipes (control loop 29) Ground FCCT parameters</p> <p>TimeTag Type: N Sub Schedule ID:</p> <p style="text-align: center;">□</p>																				
36		<p>Restore RCS pipe 8 (thermal control loop #29) Ground FCCT</p>		Next Step: 37																		
		<p>Verify Telemetry</p> <p style="text-align: center;">ATemp29_RCSPipe8 DEA94170</p>	< 10.0 <dec>	GRD=ZGZ2P999																		
		<p>If Taverage < 10°C, then restore the Ground limits in the FCCT by sending the following TC</p>																				
		<p>Execute Telecommand</p> <p style="text-align: center;">FCCT_RCS_pipe8_HPS5_HCS5</p> <p>Command Parameter(s) :</p> <table> <tbody> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>8.0 <dec> (Def)</td></tr> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>52.0 <dec> (Def)</td></tr> <tr><td>CCorrParValUInt</td><td>DH133170</td><td>64800 <dec> (Def)</td></tr> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>8.0 <dec> (Def)</td></tr> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>8.0 <dec> (Def)</td></tr> <tr><td>CCorrParValFlt</td><td>DH134170</td><td>52.0 <dec> (Def)</td></tr> </tbody> </table> <p>TC Control Flags :</p> <p style="text-align: center;">GBM IL DSE ---Y --- ---</p> <p>Subsch. ID : 10</p> <p>Det. descr. : FCCT_RCS_pipe8_HPS5_HCS5 CrCorrChkPar TC(8,4,116,17) Id=ChkId_47</p>	CCorrParValFlt	DH134170	8.0 <dec> (Def)	CCorrParValFlt	DH134170	52.0 <dec> (Def)	CCorrParValUInt	DH133170	64800 <dec> (Def)	CCorrParValFlt	DH134170	8.0 <dec> (Def)	CCorrParValFlt	DH134170	8.0 <dec> (Def)	CCorrParValFlt	DH134170	52.0 <dec> (Def)	ZCC3R999	
CCorrParValFlt	DH134170	8.0 <dec> (Def)																				
CCorrParValFlt	DH134170	52.0 <dec> (Def)																				
CCorrParValUInt	DH133170	64800 <dec> (Def)																				
CCorrParValFlt	DH134170	8.0 <dec> (Def)																				
CCorrParValFlt	DH134170	8.0 <dec> (Def)																				
CCorrParValFlt	DH134170	52.0 <dec> (Def)																				
37		Acquire new FCCT		Next Step: END																		
37.1		<p>Send TC(8,5,116) to acquire the status of the function</p>		□																		
		<p>Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".</p>																				
		<p>Execute Telecommand</p> <p style="text-align: center;">ReportFdirManagSts</p> <p>TC Control Flags :</p> <p style="text-align: center;">GBM IL DSE ---Y --- ---</p> <p>Subsch. ID : 10</p> <p>Det. descr. : Report Fdir Management Status, TC(8,5,116)</p>	DCN02170																			

Restore Ground FCCT parameters
 File: H_CRP_TCS_FCCG.xls
 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch										
37.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>										
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF <i>Packet Details:</i> <table> <tr><td>APID:</td><td>16</td></tr> <tr><td>Type:</td><td>8</td></tr> <tr><td>Subtype:</td><td>6</td></tr> <tr><td>PI1:</td><td>29951</td></tr> <tr><td>PI2:</td><td>0</td></tr> </table>	APID:	16	Type:	8	Subtype:	6	PI1:	29951	PI2:	0	FdirMngRun	
APID:	16													
Type:	8													
Subtype:	6													
PI1:	29951													
PI2:	0													
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 <i>Packet Details:</i> <table> <tr><td>APID:</td><td>16</td></tr> <tr><td>Type:</td><td>8</td></tr> <tr><td>Subtype:</td><td>6</td></tr> <tr><td>PI1:</td><td>29697</td></tr> <tr><td>PI2:</td><td>0</td></tr> </table>	APID:	16	Type:	8	Subtype:	6	PI1:	29697	PI2:	0	FcctRpt1	
APID:	16													
Type:	8													
Subtype:	6													
PI1:	29697													
PI2:	0													
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 <i>Packet Details:</i> <table> <tr><td>APID:</td><td>16</td></tr> <tr><td>Type:</td><td>8</td></tr> <tr><td>Subtype:</td><td>6</td></tr> <tr><td>PI1:</td><td>29698</td></tr> <tr><td>PI2:</td><td>0</td></tr> </table>	APID:	16	Type:	8	Subtype:	6	PI1:	29698	PI2:	0	FcctRpt2	
APID:	16													
Type:	8													
Subtype:	6													
PI1:	29698													
PI2:	0													

TC Seq. Name :HLTFCCGI (RestorePT_LF_LV FCCG)
 Restore PT, LF, LV1, LV2 Ground FCCT parameters

TimeTag Type: N
 Sub Schedule ID:

38		Restore PT, LF, LV1, LV2 (thermal control loop #30) Ground FCCT		Next Step: 39
		Verify Telemetry ATemp30_LV_1_2 DEA95170	< 11.0 <dec>	GRD=ZGZ2Q999
		If Taverage < 11°C, then restore the Ground limits in the FCCT by sending the following TC		

Restore Ground FCCT parameters
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 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand FCCT_PTLFLV12_HPS5_HCS6	ZCC3S999	
		Command Parameter(s) : CCorrParValFlt DH134170 CCorrParValFlt DH134170 CCorrParValUInt DH133170 CCorrParValFlt DH134170 CCorrParValFlt DH134170 CCorrParValFlt DH134170	8.0 <dec> (Def) 52.0 <dec> (Def) 64800 <dec> (Def) 8.0 <dec> (Def) 8.0 <dec> (Def) 52.0 <dec> (Def)	
		TC Control Flags : GBM IL DSE --Y -- ---		
		Subsch. ID : 10		
		Det. descr. : FCCT_PTLFLV12_HPS5_HCS6 CrCorrChkPar TC(8,4,116,17) Id=ChkId_48		
39		Acquire new FCCT		Next Step: END
39.1		Send TC(8,5,116) to acquire the status of the function		<input type="checkbox"/>
		Report FDIR Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand ReportFdirManagSts	DCN02170	
		TC Control Flags : GBM IL DSE --Y -- ---		
		Subsch. ID : 10 Det. descr. : Report Fdir Management Status, TC(8,5,116)		
39.2		Verify that three TM(8,6,116) have been received		<input type="checkbox"/>
		Verify Packet Reception (assumed FDIR function is started) TM 8-6-116 Fdir Management Status Report Running-Idle 0xFF Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29951 PI2: 0	FdirMngRun	

Restore Ground FCCT parameters
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 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Reception TM 8-6-116-1 FCCT contents report part 1 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 PI1: 29697 PI2: 0	FcctRpt1	
		Verify Packet Reception TM 8-6-116-2 FCCT contents report part 2 <i>Packet Details:</i> APID: 16 Type: 8 Subtype: 6 PI1: 29698 PI2: 0	FcctRpt2	
End of Procedure				

Restore Ground FCCT parameters

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HERSCHEL								
TCS Htr Line	HEATER location	Reference Unit	LOW FDIR Unit ON	LOW FDIR Unit OFF	HIGH FDIR Unit ON	HIGH FDIR Unit OFF	Control Loop index	FCCT CHK index
Line 01	Close to XPND1	XPND1	-12	-12	52	52		
Line 02	Close to XPND2	XPND2	-12	-12	52	52		
Line 03	Inside BATTERY	BATTERY	-2	-2	37	37		
Line 04	Tanks	TANKS	N/A	N/A	N/A	N/A		
Line 05	Close to FPSPU, FPDDPU	FPSPU	-17	-25	47	47		
Line 06	Close to FPBOLC	FPBOLC	-17	-21	47	47		
Line 07	CRS 1	CRS 1	43 -> 8	43 -> 8	52	52	14	32
Line 08	Close to FPDECMEC	FPDECMEC	-17	-22	47	47		
Line 09	On RCS pipes	RCS PIPES	20 -> 8	20 -> 8	52	52	16	34
Line 10	Close to CCU,HSDCU,HSFCU	CCU	3	3	42	42		
Line 11	On RCS pipes	RCS PIPES	12 -> 8	12 -> 8	52	52	5	23
Line 12	Close to FHWOV	FHWOV	2	-20	12 -> 30	12 -> 30	20	38
Line 13	Close to FHHRV	FHHRV	19 -> 8	-25	25 -> 40	25 -> 40	43	61
Line 14	STR1 Primary Baffle	STR 1	11 -> 8	-23	30 -> 40	30 -> 40	53	71
Line 15	Close to FHWEV, FHICU	FHWEV	-2	-22	32	32		
Line 16	Close to FHWOH	FHWOH	1	-15	11 -> 30	11 -> 30	39	57
Line 17	Close to FHWEH	FHWEH	-2	-7	32	32		
Line 18	Close to FHHRH	FHHRH	25 -> 8	-22	31 -> 40	31 -> 40	26	44
Line 19	Close to FHLCU, FHIFH	FHLCU	8	-20	42	42		
Line 20	Close to FHLSU	FHLSU	8	-13	37	37		
Line 21	RWL2	RWL2	-2	-6	57	57		
Line 22	RWL4	RWL4	-2	-6	57	57		
Line 23	RWL1	RWL1	-2	-6	57	57		
Line 24	RWL3	RWL3	-2	-6	57	57		
Line 25	TANK +Y	TANK +Y	8	8	40	40		
Line 26	TANK -Y	TANK -Y	8	8	40	40		
Line 27	Close to STR's	STR panel	-3	-10	30 -> 40	30 -> 40	37	55
Line 28	Close to FHIFV	FHIFV	-12	-12	42	42		
Line 29	FCV A1A (*)	FCV A1A	8	8	90	90		
Line 30	FCV C2A (*)	FCV C2A	8	8	90	90		
Line 31	FCV C1A (*)	FCV C1A	8	8	90	90		
Line 32	FCV A2A (*)	FCV A2A	8	8	90	90		
Line 33	FCV C4A (*)	FCV C4A	8	8	90	90		
Line 34	FCV C3A (*)	FCV C3A	8	8	90	90		
Line 35	on RCS pipes	RCS PIPES	11 -> 8	11 -> 8	52	52	45	63
Line 36	STR2 Primary Baffle	STR 2	11 -> 8	-23	30 -> 40	30 -> 40	46	64
Line 37	on RCS PIPES	RCS PIPES	20 -> 8	20 -> 8	52	52	47	65
Line 38	Close to GYRO	GYRO	55 -> 8	55 -> 8	65	65	18	36
Line 39	FCV A1B (*)	FCV A1B	8	8	90	90		
Line 40	FCV C2B (*)	FCV C2B	8	8	90	90		
Line 41	FCV C1B (*)	FCV C1B	8	8	90	90		
Line 42	FCV A2B (*)	FCV A2B	8	8	90	90		
Line 43	FCV C4B (*)	FCV C4B	8	8	90	90		
Line 44	FCV C3B (*)	FCV C3B	8	8	90	90		
Line 45	on RCS Pipes	RCS PIPES	11 -> 8	11 -> 8	52	52	21	39
Line 46	on RCS Pipes	RCS PIPES	11 -> 8	11 -> 8	52	52	24	42
Line 47	on RCS Pipes	RCS PIPES	10 -> 8	10 -> 8	52	52	29	47
Line 48	on PT, LF, LV1, LV2	LV1	11 -> 8	11 -> 8	52	52	30	48
Line 49	CRS 2	CRS 2	43 -> 8	43 -> 8	52	52	25	43