

Thermal loop 20 (WOV) THM2 fixed value  
File: H\_FCP\_TCS\_WOVF.xls  
Author: m.baker-hp



## Procedure Summary

### Objectives

This procedure describes the steps needed to set a fix value of 4.5 degC for the "Monitored Thermistor Parameter 2" of the thermal control loop 20 (FHWOV) in order to avoid the SPIRE DCU - HIFI WBOV thermal interaction

### Summary of Constraints

The OBCP ID 4360 is designed to write in the datapool ID 2352, the value 0x7F10 which corresponds to 4.5degC. This datapool ID 2352 is used for thermal control loop 20 (FHWOV) thermistor 2 (instead of the default datapool ID 1656 which corresponds to THM-108).

Some protection logic is applied:

- if event TM(5,1,2587) "Initialisation Completed" is issued, the new EAT is triggered which starts the OBCP ID 4360 writing fixed value to datapool ID 2352 for HIFI TCT

- if event TM(5,4,12288) "OBCP\_Evt Hifi OFF" is issued, the new EAT entry is triggered which restores the THM-108 as thermistor 2 to control the TCT control loop 20.

The Diag PKT ID 165 is defined so that it is possible from ground to verify TM DE930170 (Loop20 TH2 Tref) in CDMU datapool ID 2532

### Spacecraft Configuration

#### Start of Procedure

any

#### End of Procedure

New OBCP ID 4360 writes in datapool ID 2352, the value 0x7F10 (4.5 degC).  
TCT thermal loop 20(FHWOV)THM-2 reads fixed value (4.5 degC)

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

HFTWOVF1  
HFTWOVF2

### Referenced Displays

ANDs	GRDs	SLDs
ZAZ8I999		(None)

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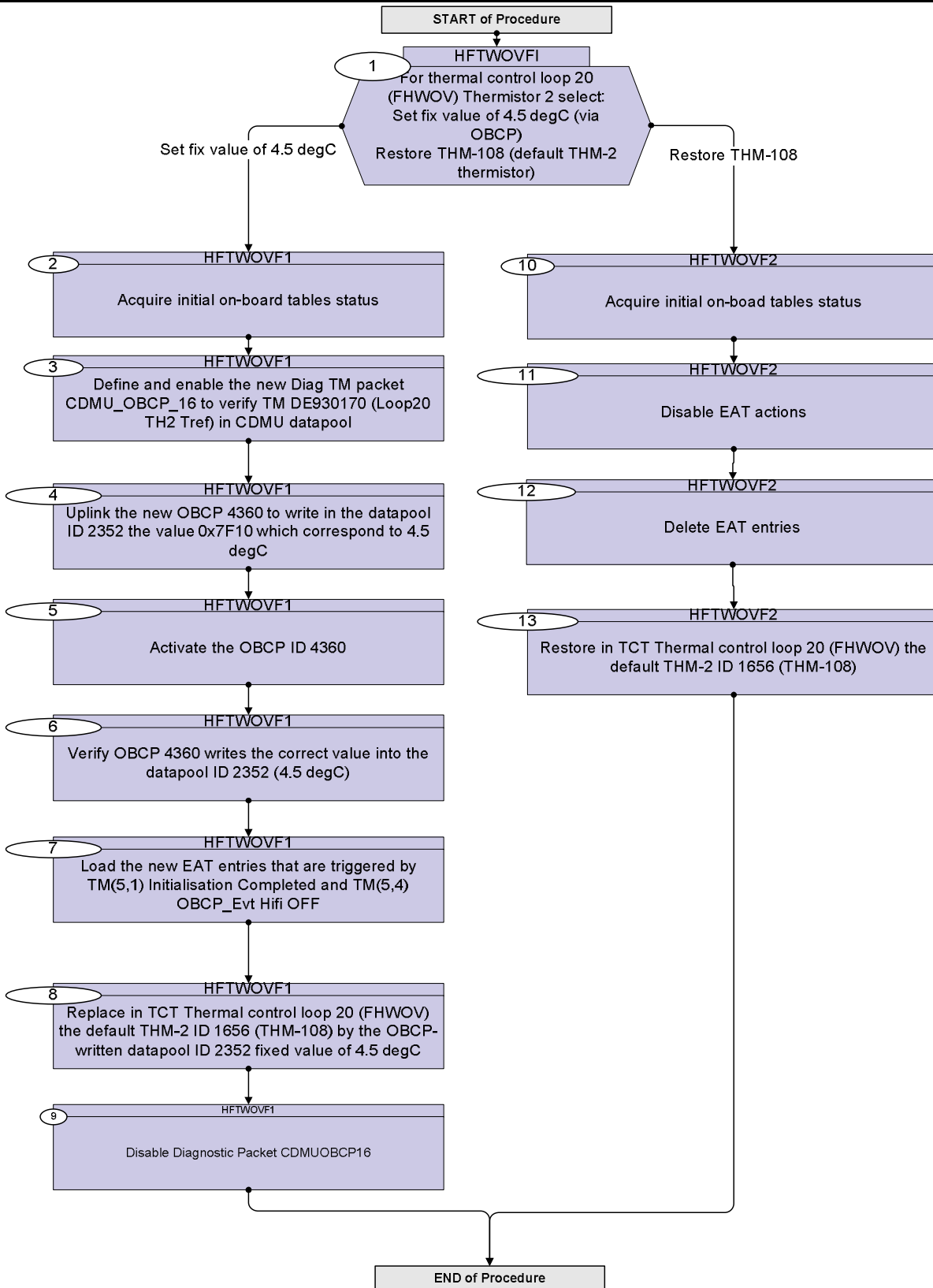
**Configuration Control Information**

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
28/01/2010		1	Created	E. Picallo	
29/01/2010		2	Modified EAT definitions using hex parameter for action TC instead than TC ID type. Added a few comments.	S. Manganelli	
08/02/2010		3	checked in to allow further editing	S. Manganelli	
16/02/2010		4	TC (Load OBCP code) and TC (Add EvtAct Entry) splitted in segments of 16 bits	E. Picallo	
09/03/2010		5	New version of EAT definition and OBCP load TC after procedure validation	S. Manganelli	
10/03/2010		6	Fixing DB problem	S. Manganelli	
10/03/2010	3	7	Fix trailing space problem in DCT89170 event ID at step 7	S. Manganelli	
22/04/2010	3.1	8	Added OBCP dump to step 4.	m.baker-hp	

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### Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>Beginning of Procedure</b>				
TC Seq. Name :HFTWOVFI (Loop20WOVfixTHM2 Ini) Thermal control loop 20 (FHWOV) Thermistor 2 fix value initial  TimeTag Type: Sub Schedule ID:  <input type="checkbox"/>				
1		For thermal control loop 20 (FHWOV) Thermistor 2 select: Set fix value of 4.5 degC (via OBCP) Restore THM-108 (default THM-2 thermistor)		Next Step: Set fix value of 4.5 degC 2 Restore THM-108 10
TC Seq. Name :HFTWOVF1 (Loop20 WO V fix THM2) Thermal control loop 20 (FHWOV) Thermistor 2 fix value  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>				
2		Acquire initial on-board tables status		Next Step: 3
		Execute Telecommand <p style="text-align: right;"><b>ReptEvtActTable</b></p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	
		Execute Telecommand <p style="text-align: right;"><b>ReportMonitList</b></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	
		Execute Telecommand <p style="text-align: right;"><b>ReptOnBoardObcps</b></p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : TEMPLATE Report list of on-board OBCPs TC(18,8)	DCT76170	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand  <b>ReportThCtrlManagSts</b>  <i>TC Control Flags :</i>  GBM IL DSE --Y -- ---  <i>Subsch. ID : 10</i> Det. descr. : Report Thermal Control Management Status, TC(8,5,114)	DCN11170	
3		<i>Define and enable the new Diag TM packet CDMU_OBCP_16 to verify TM DE930170 (Loop20 TH2 Tref) in CDMU datapool</i>		Next Step: 4
		Execute Telecommand  <b>CDMU_OBCP_16 1 of 3</b>  <i>Command Parameter(s) :</i> HK ID            XH100991 SID              XH101991 sample interval XH102991 SEGM ID        XH103991 N                XH104991  <i>TC Control Flags :</i>  GBM IL DSE --Y -- ---  <i>Subsch. ID : 30</i> Det. descr. :	XC257991  165 <dec> (Def) 31136 <dec> (Def) 1 <dec> (Def) 1 <hex> (Def) 114 <dec> (Def)	
		Execute Telecommand  <b>CDMU_OBCP_16 2 of 3</b>  <i>Command Parameter(s) :</i> HK ID            XH100991 SID              XH101991 sample interval XH102991 SEGM ID        XH103991 N                XH104991  <i>TC Control Flags :</i>  GBM IL DSE --Y -- ---  <i>Subsch. ID : 30</i> Det. descr. :	XC258991  165 <dec> (Def) 31136 <dec> (Def) 1 <dec> (Def) 2 <hex> (Def) 84 <dec> (Def)	
		Execute Telecommand  <b>CDMU_OBCP_16 3 of 3</b>  <i>Command Parameter(s) :</i> HK ID            XH100991 SID              XH101991 sample interval XH102991 SEGM ID        XH103991 N                XH104991  <i>TC Control Flags :</i>  GBM IL DSE --Y -- ---  <i>Subsch. ID : 30</i> Det. descr. :	XC259991  165 <dec> (Def) 31136 <dec> (Def) 1 <dec> (Def) FF <hex> (Def) 0 <dec> (Def)	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand  <div style="text-align: right;"><b>ReportEnabledTm</b></div> TC Control Flags :  <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report Enabled Telemetry Packets	DC904180	
		Execute Telecommand  <div style="text-align: right;"><b>EnableTmGen</b></div> Command Parameter(s) :  <div style="text-align: right;">N                   DH017180 Sub-Type           DH019180 Packet-ID         DH020180</div> TC Control Flags :  <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Enable Generation of Telemetry Packets	DC900180  1 <dec> (Def) Diag Report 165 <dec>	
		Execute Telecommand  <div style="text-align: right;"><b>ReportEnabledTm</b></div> TC Control Flags :  <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report Enabled Telemetry Packets	DC904180	
4		Uplink the new OBCP 4360 to write in the datapool ID 2352 the value 0x7F10 which correspond to 4.5 degC		Next Step: 5
4.1		Ensure OBCP management function is running.		<input type="checkbox"/>
		Verify Telemetry  <div style="text-align: right;"><b>ObcpSts           DEH36170</b></div> = Running		(None)
4.2		Upload OBCP		<input type="checkbox"/>
		Execute Telecommand  <div style="text-align: right;"><b>OBCP Code Load</b></div> TC Control Flags :  <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : OBCP Code Load inst1	XC390991	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: right;"><b>OBCP Code Load</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. : OBCP Code Load inst2</i>	XC391991	
		Execute Telecommand <p style="text-align: right;"><b>OBCP Load End Segment</b></p> <i>Command Parameter(s) :</i> <p style="text-align: right;"><b>Procedure ID                    XH274991</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. : TC(18,1) w. 0xFF Segment ID</i>	XC305991  4360 <dec>	
		Execute Telecommand <p style="text-align: right;"><b>ReptOnBoardObcps</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. : TEMPLATE Report list of on-board OBCPs TC(18,8)</i>	DCT76170	
		Execute Telecommand <p style="text-align: right;"><b>ReptObcpsStatus</b></p> <i>Command Parameter(s) :</i> <p style="text-align: right;"><b>ObcpId                            DH135170</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. : TEMPLATE Report OBCP Status and Parameters TC(18,12)</i>	DCT78170  4360 <dec>	
4.3		<i>Dump OBCP and compare against reference image</i>		□
		Start OBSM tool for comparison: - Use Monitor/Update and load reference image type PATCH for this OBCP ID - Ensure Rec button green  See procedure H_FCP_OBS_7114 for generic dump details in case of need.		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand  DumpObcp  Command Parameter(s) : ObcpId                  DH135170  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE DumpOBCP TC(18,14)	DCT79170   4360 <dec>	
		After each TC, one or a number of TM(18,15) "Dump of a copy of an OBCP" will be received.  Await all packets and ensure 0 differences.		
5		Activate the OBCP ID 4360		Next Step: 6
		Execute Telecommand  StartObcp  Command Parameter(s) : ObcpId                  DH135170 NParam32              DH138170 NParam64              DH142170  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE Start OBCP TC(18,3)	DCT71170   4360 <dec> 0 <dec> 0 <dec>	
		Execute Telecommand  ReptObcpStatus  Command Parameter(s) : ObcpId                  DH135170  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE Report OBCP Status and Parameters TC(18,12)	DCT78170   4360 <dec>	
		Note: the OBCP will run for just a couple of seconds. Verification by service 1 only, and event "OBCP started".		
6		Verify OBCP 4360 writes the correct value into the datapool ID 2352 (4.5 degC)		Next Step: 7
		Verify Telemetry Loop20 THM2 Tref                  DE930170	= 4.5 degC	(None)



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
7		Load the new EAT entries that are triggered by TM(5,1) Initialisation Completed and TM(5,4) OBCP_Evt Hifi OFF		Next Step: 8
		The action TC in hex definition below corresponds to TC XC199991, to start OBCP ID 4360		
		Execute Telecommand  <div style="text-align: right;"><b>ESOC AddEvtActEntry</b></div> TC Control Flags :  <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 30 Det. descr. : ESOC AddEvtActEntry inst1	XC392991	
		Execute Telecommand  <div style="text-align: right;"><b>ConfActFdirStsMode</b></div> Command Parameter(s) : <div style="text-align: right;">             APID_for_EAT_TC           DH236170   CDMS (Def)                                EventId           DH146170   25857 &lt;dec&gt;                                SPARE_14_BIT       GPS14000   0 &lt;dec&gt; (Def)                                AfoStatus           DH148170   Enabled                                AfsStatus           DH149170   Enabled           </div> TC Control Flags :  <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : TEMPLATE Configure Action FDIR Mode Status TC(8,4,108,3)	DCT89170	
		Execute Telecommand  <div style="text-align: right;"><b>EnableActions</b></div> Command Parameter(s) : <div style="text-align: right;">             N_Repetition            DH041170   1 &lt;dec&gt; (Def)              APID_for_EAT_TC        DH236170   CDMS (Def)                                EventId           DH146170   25857 &lt;dec&gt;           </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	
		Execute Telecommand  <div style="text-align: right;"><b>ReptEvtActTable</b></div> TC Control Flags :  <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	
		The action TC in hex definition below corresponds to TC XC198991, to Restore THM-108 (default THM-2 thermistor)		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch															
		Execute Telecommand <p style="text-align: right;"><b>ESOC AddEvtActEntry</b></p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 30 Det. descr. : ESOC AddEvtActEntry inst2	XC393991																
		Execute Telecommand <p style="text-align: right;"><b>ConfActFdirStsMode</b></p> Command Parameter(s) : <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">APID_for_EAT_TC</td> <td style="width: 30%;">DH236170</td> <td style="width: 40%;">CDMS (Def)</td> </tr> <tr> <td>EventId</td> <td>DH146170</td> <td>12288 &lt;dec&gt;</td> </tr> <tr> <td>SPARE_14_BIT</td> <td>GPS14000</td> <td>0 &lt;dec&gt; (Def)</td> </tr> <tr> <td>AfoStatus</td> <td>DH148170</td> <td>Enabled</td> </tr> <tr> <td>AfsStatus</td> <td>DH149170</td> <td>Enabled</td> </tr> </table> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : TEMPLATE Configure Action FDIR Mode Status TC(8,4,108,3)	APID_for_EAT_TC	DH236170	CDMS (Def)	EventId	DH146170	12288 <dec>	SPARE_14_BIT	GPS14000	0 <dec> (Def)	AfoStatus	DH148170	Enabled	AfsStatus	DH149170	Enabled	DCT89170	
APID_for_EAT_TC	DH236170	CDMS (Def)																	
EventId	DH146170	12288 <dec>																	
SPARE_14_BIT	GPS14000	0 <dec> (Def)																	
AfoStatus	DH148170	Enabled																	
AfsStatus	DH149170	Enabled																	
		Execute Telecommand <p style="text-align: right;"><b>EnableActions</b></p> Command Parameter(s) : <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">N_Repetition</td> <td style="width: 30%;">DH041170</td> <td style="width: 40%;">1 &lt;dec&gt; (Def)</td> </tr> <tr> <td>APID_for_EAT_TC</td> <td>DH236170</td> <td>CDMS (Def)</td> </tr> <tr> <td>EventId</td> <td>DH146170</td> <td>12288 &lt;dec&gt;</td> </tr> </table> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : TEMPLATE Enable Actions TC(19,4)	N_Repetition	DH041170	1 <dec> (Def)	APID_for_EAT_TC	DH236170	CDMS (Def)	EventId	DH146170	12288 <dec>	DCT84170							
N_Repetition	DH041170	1 <dec> (Def)																	
APID_for_EAT_TC	DH236170	CDMS (Def)																	
EventId	DH146170	12288 <dec>																	
		Execute Telecommand <p style="text-align: right;"><b>ReptEvtActTable</b></p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170																
□		Replace in TCT Thermal control loop 20 (FHWOV) the default THM-2 ID 1656 (THM-108) by the OBCP-written datapool ID 2352 fixed value of 4.5 degC		Next Step: 9															

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand  <b>ModifyTctEntry16_Templ</b>  Command Parameter(s) : <b>ThCtrlLoopIndex</b> DH069170 <b>N_Repet_8bit</b> DH070170 <b>ThCtrlParamId</b> DH071170 <b>ThCtrlParVal16</b> DH072170  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE Modify Thermal Control Table 16bit entry TC(8,4,114,16)	DCT46170  20 <dec> 1 <dec> (Def) MonThermisPar2 2352 <dec>	
		Execute Telecommand  <b>ReportThCtrlManagSts</b>  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : Report Thermal Control Management Status, TC(8,5,114)	DCN11170	
		Verify Telemetry  <b>MonThrmstPar2_20</b> DEPC6170	= 2352 <dec>	
9		Disable Diagnostic Packet CDMUOBCP16		Next Step: END
		Execute Telecommand  <b>DisableTmGen</b>  Command Parameter(s) : <b>N</b> DH017180 <b>Sub-Type</b> DH019180 <b>Packet-ID</b> DH020180  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : Disable Generation of Telemetry Packets	DC902180  1 <dec> (Def) Diag Report 165 <dec>	
		Execute Telecommand  <b>ReportEnabledTm</b>  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : Report Enabled Telemetry Packets	DC904180	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		TC Seq. Name : HFTWOVF2 (Loop20WOV unfix THM2) Thermal control loop 20 (FHWOV) Thermistor 2 unfix value  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>		
10		Acquire initial on-board tables status		Next Step: 11
		Execute Telecommand <p style="text-align: right;"><b>ReptEvtActTable</b></p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	
		Execute Telecommand <p style="text-align: right;"><b>ReportMonitList</b></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	
		Execute Telecommand <p style="text-align: right;"><b>ReptOnBoardObcps</b></p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : TEMPLATE Report list of on-board OBCPs TC(18,8)	DCT76170	
		Execute Telecommand <p style="text-align: right;"><b>ReportThCtrlManagSts</b></p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Report Thermal Control Management Status, TC(8,5,114)	DCN11170	
11		Disable EAT actions		Next Step: 12

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand  DisableActions  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 Disable Actions TC(19,5)	DCT85170  1 <dec> (Def) CDMS (Def) 25857 <dec>	
		Execute Telecommand  DisableActions  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 Disable Actions TC(19,5)	DCT85170  1 <dec> (Def) CDMS (Def) 12288 <dec>	
12		Delete EAT entries		Next Step: 13
		Execute Telecommand  DelEvtActEntry  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 Delete entry from event/action table TC(19,2)	DCT82170  1 <dec> (Def) CDMS (Def) 25857 <dec>	
		Execute Telecommand  DelEvtActEntry  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 Delete entry from event/action table TC(19,2)	DCT82170  1 <dec> (Def) CDMS (Def) 12288 <dec>	

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		Execute Telecommand  <div style="text-align: right;"><b>ReptEvtActTable</b></div> TC Control Flags :  <div style="text-align: right;">GBM IL DSE --Y -- --</div> Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	
<input type="checkbox"/>		Restore in TCT Thermal control loop 20 (FHWOV) the default THM-2 ID 1656 (THM-108)		Next Step: END
		Execute Telecommand  <div style="text-align: right;"><b>ModifyTctEntry16_Templ</b></div> Command Parameter(s) : <div style="text-align: right;">ThCtrlLoopIndex           DH069170                      N_Repet_8bit        DH070170                      ThCtrlParamId       DH071170                      ThCtrlParVal16      DH072170</div> TC Control Flags :  <div style="text-align: right;">GBM IL DSE --Y -- --</div> Subsch. ID : 10 Det. descr. : TEMPLATE Modify Thermal Control Table 16bit entry TC(8,4,114,16)	DCT46170  20 <dec> 1 <dec> (Def) MonThermisPar2 1656 <dec>	
		Execute Telecommand  <div style="text-align: right;"><b>ReportThCtrlManagSts</b></div> TC Control Flags :  <div style="text-align: right;">GBM IL DSE --Y -- --</div> Subsch. ID : 10 Det. descr. : Report Thermal Control Management Status, TC(8,5,114)	DCN11170	
		Verify Telemetry  <div style="text-align: right;"><b>MonThrmstPar2_20</b></div> DEPC6170	= TMB08601	AND=ZAZ8I999
<b>End of Procedure</b>				