

Setup OBCP MOT EAT for SPIRE FDIR  
File: H\_FCP\_DHS\_1037.xls  
Author: S. Manganelli



## Procedure Summary

### Objectives

Definition and activation of  
new SPIRE FDIR OBCP 11FF  
new HKID 200  
MOT and EAT related entries  
Routing of SPIRE HK to CDMU slot 0

The OBCP is designed so that it reads some SPIRE HK values from the packet stored in slot 0 and makes them available to the CDMS datapool. Some protection logic is applied to the written SPIRE Tm value for current : it is written in its original value only if the SPIRE circuit is powered, otherwise a default nominal value is written.

The MOT and EAT entries are designed to monitor the temperature and current values copied in the CDMS datapool, and trigger another OBCP (SPIRE standby) in case the thresholds are violated.

The HKID 200 is defined so that it is possible from ground to cross-check the values of SPIRE TM written by the OBCP to the CDMU datapool.

In case of a problem in the acquisition of SPIRE TM or in writing to the CDMS datapool, the BSW will return an error to the OBCP and the OBCP will issue an event 5,4,16384 and the last acquired value(s) shall not change on

### Summary of Constraints

SPIRE must be on. HK 200 must not be already defined on board. If the values of the SPIRE TM are not available to the datapool when the EAT is enabled, the MOT/EAT will trigger! Follow the execution order of the procedure.

### Spacecraft Configuration

#### Start of Procedure

Any

#### End of Procedure

New OBCP-based SPIRE FDIR loaded and active

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

HFD1037  
HFD1037B

### Referenced Displays

ANDs      GRDs      SLDs

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ZA0999

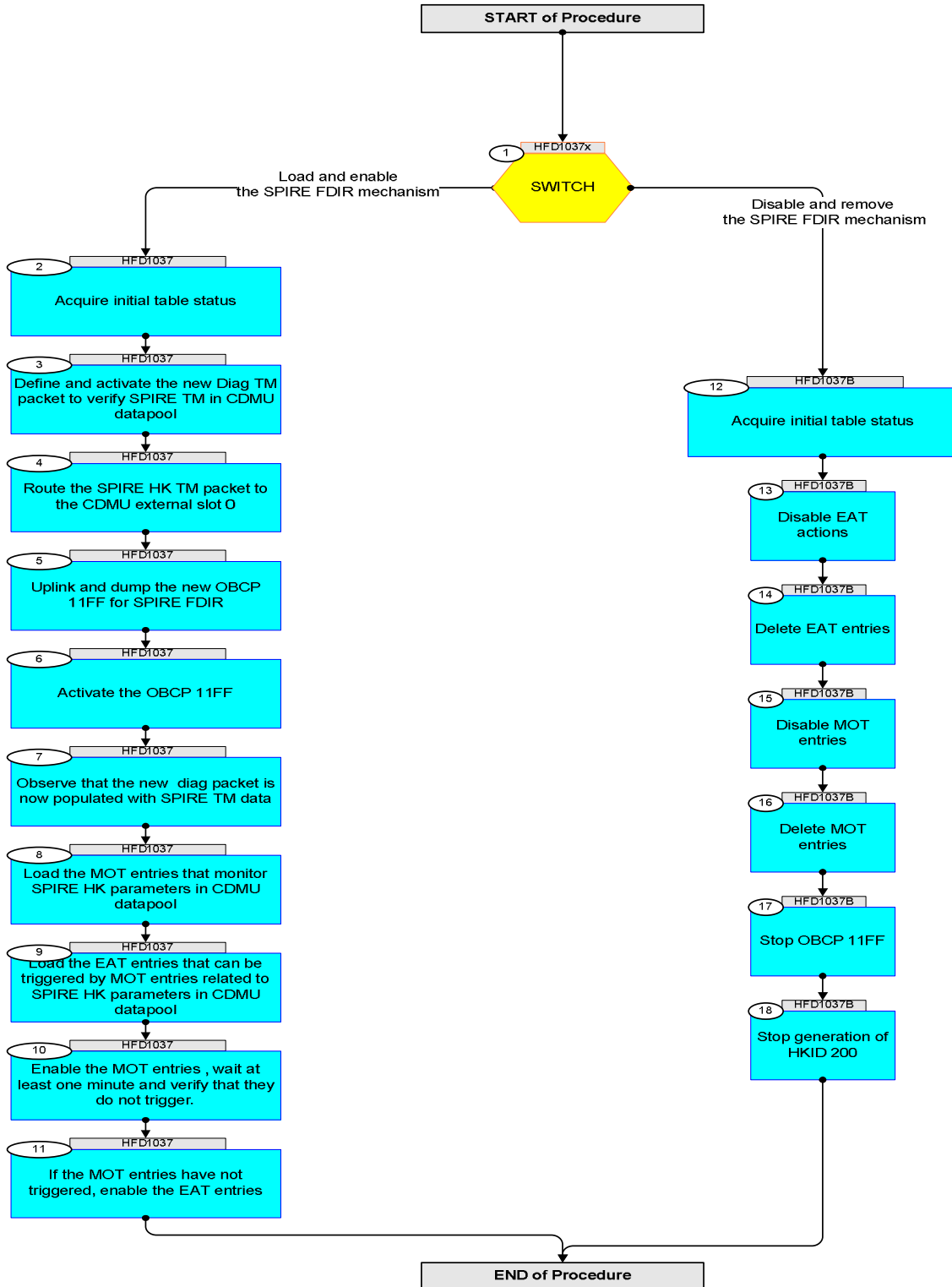
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
24/08/09		1	Created	S. Manganelli	
26/08/09	2.5	2	Added branch to remove mechanism	S. Manganelli	

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## Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
<b>Beginning of Procedure</b>					
HFD1037x <i>TC Seq. Name : HFD1037x ( Dummy )</i>  <i>TimeTag Type:</i> <i>Sub Schedule ID:</i>  <input type="checkbox"/>					
1		SWITCH  type: [Switch]		Next Step: Load and enable the SPIRE FDIR mechanism 2 Disable and remove the SPIRE FDIR mechanism 12	
End of Sequence <i>TC Seq. Name : HFD1037 ( SPIRE_FDIR_LOAD )</i>  <i>TimeTag Type: N</i> <i>Sub Schedule ID:</i>  <input type="checkbox"/>					
2		Acquire initial table status		Next Step: 3	
		Execute Telecommand  <div style="text-align: right;"><b>ReptEvtActTable</b></div> <i>TC Control Flags :</i>  <div style="text-align: right;"><b>GBM IL DSE</b></div> <div style="text-align: right;">--Y -- ---</div> <i>Subsch. ID : 10</i> <i>Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)</i>	<b>DCT86170</b>	TC	
		Execute Telecommand  <div style="text-align: right;"><b>ReportMonitList</b></div> <i>TC Control Flags :</i>  <div style="text-align: right;"><b>GBM IL DSE</b></div> <div style="text-align: right;">--Y -- ---</div> <i>Subsch. ID : 10</i> <i>Det. descr. : Report current monitoring list, TC(12,8), no appl. data</i>	<b>DC20L170</b>	TC	
		Execute Telecommand  <div style="text-align: right;"><b>ReptOnBoardObcps</b></div> <i>TC Control Flags :</i>  <div style="text-align: right;"><b>GBM IL DSE</b></div> <div style="text-align: right;">--Y -- ---</div> <i>Subsch. ID : 10</i> <i>Det. descr. : TEMPLATE Report list of on-board OBCPs TC(18,8)</i>	<b>DCT76170</b>	TC	
3		Define and activate the new Diag TM packet to verify SPIRE TM in CDMU datapool		Next Step: 4	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment																											
		Execute Telecommand <p style="text-align: right;"><b>ReportEnabledTm</b></p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Report Enabled Telemetry Packets	DC904180	TC																												
		Execute Telecommand <p style="text-align: right;"><b>SpireOBCPDiagPkt</b></p> Command Parameter(s) : <table style="width:100%; border: none;"> <tr><td style="padding-left: 20px;">HK_Packet_ID</td><td style="padding-left: 20px;">ZH000999</td><td style="padding-left: 20px;">200 &lt;dec&gt; (Def)</td></tr> <tr><td style="padding-left: 20px;">SID</td><td style="padding-left: 20px;">ZH001999</td><td style="padding-left: 20px;">20200 &lt;dec&gt; (Def)</td></tr> <tr><td style="padding-left: 20px;">Sampling_Interv</td><td style="padding-left: 20px;">ZH002999</td><td style="padding-left: 20px;">1 &lt;dec&gt; (Def)</td></tr> <tr><td style="padding-left: 20px;">Segment-ID</td><td style="padding-left: 20px;">ZH003999</td><td style="padding-left: 20px;">0 &lt;dec&gt; (Def)</td></tr> <tr><td style="padding-left: 20px;">N</td><td style="padding-left: 20px;">ZH004999</td><td style="padding-left: 20px;">4 &lt;dec&gt; (Def)</td></tr> <tr><td style="padding-left: 20px;">Parameter_ID</td><td style="padding-left: 20px;">XH376991</td><td style="padding-left: 20px;">2348 &lt;dec&gt; (Def)</td></tr> <tr><td style="padding-left: 20px;">Parameter_ID</td><td style="padding-left: 20px;">XH376991</td><td style="padding-left: 20px;">2349 &lt;dec&gt; (Def)</td></tr> <tr><td style="padding-left: 20px;">Parameter_ID</td><td style="padding-left: 20px;">XH376991</td><td style="padding-left: 20px;">2350 &lt;dec&gt; (Def)</td></tr> <tr><td style="padding-left: 20px;">Parameter_ID</td><td style="padding-left: 20px;">XH376991</td><td style="padding-left: 20px;">2351 &lt;dec&gt; (Def)</td></tr> </table> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : 4 SPIRE TM par from HK slot to datapool via OBCP	HK_Packet_ID	ZH000999	200 <dec> (Def)	SID	ZH001999	20200 <dec> (Def)	Sampling_Interv	ZH002999	1 <dec> (Def)	Segment-ID	ZH003999	0 <dec> (Def)	N	ZH004999	4 <dec> (Def)	Parameter_ID	XH376991	2348 <dec> (Def)	Parameter_ID	XH376991	2349 <dec> (Def)	Parameter_ID	XH376991	2350 <dec> (Def)	Parameter_ID	XH376991	2351 <dec> (Def)	XC389991	TC	
HK_Packet_ID	ZH000999	200 <dec> (Def)																														
SID	ZH001999	20200 <dec> (Def)																														
Sampling_Interv	ZH002999	1 <dec> (Def)																														
Segment-ID	ZH003999	0 <dec> (Def)																														
N	ZH004999	4 <dec> (Def)																														
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Parameter_ID	XH376991	2350 <dec> (Def)																														
Parameter_ID	XH376991	2351 <dec> (Def)																														
		Execute Telecommand <p style="text-align: right;"><b>ReportDiagPackDef</b></p> Command Parameter(s) : <table style="width:100%; border: none;"> <tr><td style="padding-left: 20px;">N</td><td style="padding-left: 20px;">DH030180</td><td style="padding-left: 20px;">1 &lt;dec&gt; (Def)</td></tr> <tr><td style="padding-left: 20px;">HK_PKT_ID</td><td style="padding-left: 20px;">DH031180</td><td style="padding-left: 20px;">200 &lt;dec&gt;</td></tr> </table> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Report Diagnostic Packet Definitions	N	DH030180	1 <dec> (Def)	HK_PKT_ID	DH031180	200 <dec>	DC303180	TC																						
N	DH030180	1 <dec> (Def)																														
HK_PKT_ID	DH031180	200 <dec>																														
		Execute Telecommand <p style="text-align: right;"><b>EnableTmGen</b></p> Command Parameter(s) : <table style="width:100%; border: none;"> <tr><td style="padding-left: 20px;">N</td><td style="padding-left: 20px;">DH017180</td><td style="padding-left: 20px;">1 &lt;dec&gt; (Def)</td></tr> <tr><td style="padding-left: 20px;">Sub-Type</td><td style="padding-left: 20px;">DH019180</td><td style="padding-left: 20px;">Diag Report</td></tr> <tr><td style="padding-left: 20px;">Packet-ID</td><td style="padding-left: 20px;">DH020180</td><td style="padding-left: 20px;">200 &lt;dec&gt;</td></tr> </table> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Enable Generation of Telemetry Packets	N	DH017180	1 <dec> (Def)	Sub-Type	DH019180	Diag Report	Packet-ID	DH020180	200 <dec>	DC900180	TC																			
N	DH017180	1 <dec> (Def)																														
Sub-Type	DH019180	Diag Report																														
Packet-ID	DH020180	200 <dec>																														
		Execute Telecommand <p style="text-align: right;"><b>ReportEnabledTm</b></p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Report Enabled Telemetry Packets	DC904180	TC																												
4		Route the SPIRE HK TM packet to the CDMU external slot 0		Next Step: 5																												

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>SaveHKTMPackets</b></div> Command Parameter(s) : <div style="margin-left: 40px;">             HK_APID           DH046161              HK_SID            DH047161              SLOT             DH049161           </div> TC Control Flags : <div style="margin-left: 40px;">             GBM IL DSE              --Y -- ---           </div> Subsch. ID : 10 Det. descr. : Saving of HK TM Packets	DC008161	TC	
5		Uplink and dump the new OBCP 11FF for SPIRE FDIR		Next Step: 6	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>ObcP_4607_SPI_01</b></div> TC Control Flags : <div style="margin-left: 40px;">             GBM IL DSE              --Y -- ---           </div> Subsch. ID : 10 Det. descr. : DB_OBCP_H_SPIRE_SPECTRO_MON Load 1 of 9	XC352991	TC	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>ObcP_4607_SPI_02</b></div> TC Control Flags : <div style="margin-left: 40px;">             GBM IL DSE              --Y -- ---           </div> Subsch. ID : 10 Det. descr. : DB_OBCP_H_SPIRE_SPECTRO_MON Load 2 of 9	XC353991	TC	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>ObcP_4607_SPI_03</b></div> TC Control Flags : <div style="margin-left: 40px;">             GBM IL DSE              --Y -- ---           </div> Subsch. ID : 10 Det. descr. : DB_OBCP_H_SPIRE_SPECTRO_MON Load 3 of 9	XC354991	TC	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>ObcP_4607_SPI_04</b></div> TC Control Flags : <div style="margin-left: 40px;">             GBM IL DSE              --Y -- ---           </div> Subsch. ID : 10 Det. descr. : DB_OBCP_H_SPIRE_SPECTRO_MON Load 4 of 9	XC355991	TC	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>ObcP_4607_SPI_05</b></div> TC Control Flags : <div style="margin-left: 40px;">             GBM IL DSE              --Y -- ---           </div> Subsch. ID : 10 Det. descr. : DB_OBCP_H_SPIRE_SPECTRO_MON Load 5 of 9	XC356991	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">Obcp_4607_SPI_06</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : DB_OBCP_H_SPIRE_SPECTRO_MON Load 6 of 9	XC357991	TC	
		Execute Telecommand <p style="text-align: right;">Obcp_4607_SPI_07</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : DB_OBCP_H_SPIRE_SPECTRO_MON Load 7 of 9	XC358991	TC	
		Execute Telecommand <p style="text-align: right;">Obcp_4607_SPI_08</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : DB_OBCP_H_SPIRE_SPECTRO_MON Load 8 of 9	XC359991	TC	
		Execute Telecommand <p style="text-align: right;">Obcp_4607_SPI_FF</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : DB_OBCP_H_SPIRE_SPECTRO_MON Load 9 of 9	XC360991	TC	
		Execute Telecommand <p style="text-align: right;">ReptOnBoardObcps</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	TC	
		Execute Telecommand <p style="text-align: right;">DumpObcp</p> Command Parameter(s) : <p style="text-align: right;">ObcpId            DH135170</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : TEMPLATE DumpOBCP TC(18,14)	DCT79170  11FF <hex>	TC	
		Execute Telecommand <p style="text-align: right;">ReptObcpStatus</p> Command Parameter(s) : <p style="text-align: right;">ObcpId            DH135170</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : TEMPLATE Report OBCP Status and Parameters TC(18,12)	DCT78170  11FF <hex>	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment									
		Execute Telecommand <p style="text-align: right;"><b>ReptActiveObcps</b></p> <i>TC Control Flags :</i> <p style="text-align: right;"><b>GBM IL DSE</b>  <b>--Y -- ---</b></p> <i>Subsch. ID : 10</i> <i>Det. descr. : TEMPLATE Report list of Active OBCPs TC(18,10)</i>	DCT77170	TC										
6		Activate the OBCP 11FF		Next Step: 7										
		Execute Telecommand <p style="text-align: right;"><b>StartObcp</b></p> <i>Command Parameter(s) :</i> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"><b>ObcpId</b></td> <td style="width: 20%;">DH135170</td> <td style="width: 50%;">11FF &lt;hex&gt;</td> </tr> <tr> <td><b>NParam32</b></td> <td>DH138170</td> <td>0 &lt;dec&gt;</td> </tr> <tr> <td><b>NParam64</b></td> <td>DH142170</td> <td>0 &lt;dec&gt;</td> </tr> </table> <i>TC Control Flags :</i> <p style="text-align: right;"><b>GBM IL DSE</b>  <b>--Y -- ---</b></p> <i>Subsch. ID : 10</i> <i>Det. descr. : TEMPLATE Start OBCP TC(18,3)</i>	<b>ObcpId</b>	DH135170	11FF <hex>	<b>NParam32</b>	DH138170	0 <dec>	<b>NParam64</b>	DH142170	0 <dec>	DCT71170	TC	
<b>ObcpId</b>	DH135170	11FF <hex>												
<b>NParam32</b>	DH138170	0 <dec>												
<b>NParam64</b>	DH142170	0 <dec>												
		Execute Telecommand <p style="text-align: right;"><b>ReptObcpsStatus</b></p> <i>Command Parameter(s) :</i> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"><b>ObcpId</b></td> <td style="width: 20%;">DH135170</td> <td style="width: 50%;">11FF &lt;hex&gt;</td> </tr> </table> <i>TC Control Flags :</i> <p style="text-align: right;"><b>GBM IL DSE</b>  <b>--Y -- ---</b></p> <i>Subsch. ID : 10</i> <i>Det. descr. : TEMPLATE Report OBCP Status and Parameters TC(18,12)</i>	<b>ObcpId</b>	DH135170	11FF <hex>	DCT78170	TC							
<b>ObcpId</b>	DH135170	11FF <hex>												
		Execute Telecommand <p style="text-align: right;"><b>ReptActiveObcps</b></p> <i>TC Control Flags :</i> <p style="text-align: right;"><b>GBM IL DSE</b>  <b>--Y -- ---</b></p> <i>Subsch. ID : 10</i> <i>Det. descr. : TEMPLATE Report list of Active OBCPs TC(18,10)</i>	DCT77170	TC										
7		Observe that the new diag packet is now populated with SPIRE TM data		Next Step: 8										
		Refer to Checkform ZAZD0999 at the back of this document		ANDCK										
		THE TWO SETS OF PARAMETERS (ORIGINAL SPIRE TM AND VALUES COPIED INTO CDMU DATAPOOL) CAN BE FOLLOWED IN GRD ZGZ75999 AND ZGZ74999												
8		Load the MOT entries that monitor SPIRE HK parameters in CDMU datapool		Next Step: 9										



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand Load_SPIRE_MOT_1000  Command Parameter(s) : ParamMonStatus        XH044993    Disabled (Def) MonitInterval         XH045993    32 <dec> (Def) RepNumber             XH046993    3 <dec> (Def) CheckValue            XH047993    42542 <dec> (Def) CheckMask             XH048993    65535 <dec> (Def) CheckTypeId           XH049993    MaskSTChkVal Event1Id              XH050993    (Def) Event2Id              XH051993    38400 <dec> (Def) TC Control Flags : GBM IL DSE  --Y -- --- Subsch. ID : 10 Det. descr. : Load SPIRE MOT 1000 to the Default MOT	XC381991	TC	
		Execute Telecommand Load_SPIRE_MOT_1001  Command Parameter(s) : ParamMonStatus        XH044993    Disabled (Def) MonitInterval         XH045993    32 <dec> (Def) RepNumber             XH046993    3 <dec> (Def) CheckValue            XH047993    42175 <dec> (Def) CheckMask             XH048993    65535 <dec> (Def) CheckTypeId           XH049993    MaskSTChkVal Event1Id              XH050993    (Def) Event2Id              XH051993    38401 <dec> (Def) TC Control Flags : GBM IL DSE  --Y -- --- Subsch. ID : 10 Det. descr. : Load SPIRE MOT 1001 to the Default MOT	XC382991	TC	
		Execute Telecommand Load_SPIRE_MOT_1002  Command Parameter(s) : ParamMonStatus        XH044993    Disabled (Def) MonitInterval         XH045993    32 <dec> (Def) RepNumber             XH046993    3 <dec> (Def) CheckValue            XH047993    32000 <dec> (Def) CheckMask             XH048993    65535 <dec> (Def) CheckTypeId           XH049993    MaskSTChkVal Event1Id              XH050993    (Def) Event2Id              XH051993    38402 <dec> (Def) TC Control Flags : GBM IL DSE  --Y -- --- Subsch. ID : 10 Det. descr. : Load SPIRE MOT 1002 to the Default MOT	XC383991	TC	
		Execute Telecommand Load_SPIRE_MOT_1003  Command Parameter(s) : ParamMonStatus        XH044993    Disabled (Def) MonitInterval         XH045993    32 <dec> (Def) RepNumber             XH046993    3 <dec> (Def) CheckValue            XH047993    48200 <dec> (Def) CheckMask             XH048993    65535 <dec> (Def) CheckTypeId           XH049993    MaskGTChkVal Event1Id              XH050993    (Def) Event2Id              XH051993    38403 <dec> (Def) TC Control Flags : GBM IL DSE  --Y -- --- Subsch. ID : 10 Det. descr. : Load SPIRE MOT 1003 to the Default MOT	XC384991	TC	

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		Execute Telecommand <p style="text-align: right;"><b>ReportMonitList</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
		Execute Telecommand <p style="text-align: right;"><b>LinkUnitMon_1000</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 Det. descr. : Link Unit to MOT entry MonId 1000	XC385991	TC	
		Execute Telecommand <p style="text-align: right;"><b>LinkUnitMon_1001</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 Det. descr. : Link Unit to MOT entry MonId 1001	XC386991	TC	
		Execute Telecommand <p style="text-align: right;"><b>LinkUnitMon_1002</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 Det. descr. : Link Unit to MOT entry MonId 1002	XC387991	TC	
		Execute Telecommand <p style="text-align: right;"><b>LinkUnitMon_1003</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 Det. descr. : Link Unit to MOT entry MonId 1003	XC388991	TC	
		Execute Telecommand <p style="text-align: right;"><b>ReportMonitList</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
9		Load the EAT entries that can be triggered by MOT entries related to SPIRE HK parameters in CDMU datapool		Next Step: 10	
		Execute Telecommand <p style="text-align: right;"><b>EAT_SPIRE_STBY_38400</b></p> <i>Command Parameter(s) :</i> <p style="text-align: right;">32-bit value           DPV32185    0 &lt;hex&gt; (Def)            32-bit value           DPV32185    0 &lt;hex&gt; (Def)</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 Det. descr. : EAT start OBCP_SPIRE_STANDBY EID 38400	XC377991	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <b>EAT_SPIRE_STBY_38401</b>  Command Parameter(s) : 32-bit value           DPV32185    0 <hex> (Def) 32-bit value           DPV32185    0 <hex> (Def)  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : EAT start OBCP_SPIRE_STANDBY EID 38401	<b>XC378991</b>	TC	
		Execute Telecommand <b>EAT_SPIRE_STBY_38402</b>  Command Parameter(s) : 32-bit value           DPV32185    0 <hex> (Def) 32-bit value           DPV32185    0 <hex> (Def)  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : EAT start OBCP_SPIRE_STANDBY EID 38402	<b>XC379991</b>	TC	
		Execute Telecommand <b>EAT_SPIRE_STBY_38403</b>  Command Parameter(s) : 32-bit value           DPV32185    0 <hex> (Def) 32-bit value           DPV32185    0 <hex> (Def)  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : EAT start OBCP_SPIRE_STANDBY EID 38403	<b>XC380991</b>	TC	
		Execute Telecommand <b>ReptEvtActTable</b>  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	<b>DCT86170</b>	TC	
		Execute Telecommand <b>EAT_SP_STBY_38400_N_PPS</b>  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : EAT Dis Para Pass TC(8,4,108,2) for SP_STBY_38400	<b>XC361991</b>	TC	
		Execute Telecommand <b>EAT_SP_STBY_38401_N_PPS</b>  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : EAT Dis Para Pass TC(8,4,108,2) for SP_STBY_38401	<b>XC362991</b>	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: center;"><b>EAT_SP_STBY_38402_N_PPS</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : EAT Dis Para Pass TC(8,4,108,2) for SP_STBY_38402	XC363991	TC	
		Execute Telecommand <p style="text-align: center;"><b>EAT_SP_STBY_38403_N_PPS</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : EAT Dis Para Pass TC(8,4,108,2) for SP_STBY_38403	XC364991	TC	
		Execute Telecommand <p style="text-align: center;"><b>EAT_SP_STBY_38400_N_AHI</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : EAT Action Handling ID TC(8,4,108,3) for SP_STBY_38400	XC365991	TC	
		Execute Telecommand <p style="text-align: center;"><b>EAT_SP_STBY_38401_N_AHI</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : EAT Action Handling ID TC(8,4,108,3) for SP_STBY_38401	XC366991	TC	
		Execute Telecommand <p style="text-align: center;"><b>EAT_SP_STBY_38402_N_AHI</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : EAT Action Handling ID TC(8,4,108,3) for SP_STBY_38402	XC367991	TC	
		Execute Telecommand <p style="text-align: center;"><b>EAT_SP_STBY_38403_N_AHI</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : EAT Action Handling ID TC(8,4,108,3) for SP_STBY_38403	XC368991	TC	
		Execute Telecommand <p style="text-align: center;"><b>ReptEvtActTable</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	TC	
10		Enable the MOT entries , wait at least one minute and verify that they do not trigger.		Next Step: 11	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <b>EnabMonitOfParam_Templ</b> Command Parameter(s) : N_Repetition            XH318991 ParameterId            XH319991 MonitorId              XH320991 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Enable Monitoring of Parameter, TC(12,1)	XC331991	TC	
		Execute Telecommand <b>EnabMonitOfParam_Templ</b> Command Parameter(s) : N_Repetition            XH318991 ParameterId            XH319991 MonitorId              XH320991 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Enable Monitoring of Parameter, TC(12,1)	XC331991	TC	
		Execute Telecommand <b>EnabMonitOfParam_Templ</b> Command Parameter(s) : N_Repetition            XH318991 ParameterId            XH319991 MonitorId              XH320991 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Enable Monitoring of Parameter, TC(12,1)	XC331991	TC	
		Execute Telecommand <b>EnabMonitOfParam_Templ</b> Command Parameter(s) : N_Repetition            XH318991 ParameterId            XH319991 MonitorId              XH320991 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Enable Monitoring of Parameter, TC(12,1)	XC331991	TC	
		Execute Telecommand <b>ReportMonitList</b> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
11		If the MOT entries have not triggered, enable the EAT entries		Next Step: END	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <div style="text-align: right;"><b>EAT_SP_STBY_38400_EN_AC</b></div> <i>TC Control Flags :</i> <div style="text-align: right;">GBM IL DSE --Y -- ---</div> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> EAT Enable Action related to SP_STBY_38400 TC(19,4)	XC369991	TC	
		Execute Telecommand <div style="text-align: right;"><b>EAT_SP_STBY_38401_EN_AC</b></div> <i>TC Control Flags :</i> <div style="text-align: right;">GBM IL DSE --Y -- ---</div> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> EAT Enable Action related to SP_STBY_38401 TC(19,4)	XC370991	TC	
		Execute Telecommand <div style="text-align: right;"><b>EAT_SP_STBY_38402_EN_AC</b></div> <i>TC Control Flags :</i> <div style="text-align: right;">GBM IL DSE --Y -- ---</div> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> EAT Enable Action related to SP_STBY_38402 TC(19,4)	XC371991	TC	
		Execute Telecommand <div style="text-align: right;"><b>EAT_SP_STBY_38403_EN_AC</b></div> <i>TC Control Flags :</i> <div style="text-align: right;">GBM IL DSE --Y -- ---</div> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> EAT Enable Action related to SP_STBY_38403 TC(19,4)	XC372991	TC	
		Execute Telecommand <div style="text-align: right;"><b>ReptEvtActTable</b></div> <i>TC Control Flags :</i> <div style="text-align: right;">GBM IL DSE --Y -- ---</div> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	TC	
End of Sequence					
<i>TC Seq. Name :</i> HFD1037B ( SPIRE_FDIR_REMV )  <b>HFD1037B</b>  <i>TimeTag Type:</i> N <i>Sub Schedule ID:</i>  <input type="checkbox"/>					
12		Acquire initial table status		Next Step: 13	
		Execute Telecommand <div style="text-align: right;"><b>ReptEvtActTable</b></div> <i>TC Control Flags :</i> <div style="text-align: right;">GBM IL DSE --Y -- ---</div> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>ReportMonitList</b></div> <i>TC Control Flags :</i> <div style="text-align: right; margin-right: 20px;">GBM IL DSE --Y -- ---</div> <i>Subsch. ID : 10</i> Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>ReptOnBoardObcps</b></div> <i>TC Control Flags :</i> <div style="text-align: right; margin-right: 20px;">GBM IL DSE --Y -- ---</div> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Report list of on-board OBCPs TC(18,8)	DCT76170	TC	
13		Disable EAT actions		Next Step: 14	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>EAT_SP_STBY_38400_DIS_AC</b></div> <i>TC Control Flags :</i> <div style="text-align: right; margin-right: 20px;">GBM IL DSE --Y --- ---</div> <i>Subsch. ID : 10</i> Det. descr. : EAT Disable Action related to SP_STBY_38400 TC(19,4)	XC373991	TC	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>EAT_SP_STBY_38401_DIS_AC</b></div> <i>TC Control Flags :</i> <div style="text-align: right; margin-right: 20px;">GBM IL DSE --Y --- ---</div> <i>Subsch. ID : 10</i> Det. descr. : EAT Disable Action related to SP_STBY_38401 TC(19,4)	XC374991	TC	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>EAT_SP_STBY_38402_DIS_AC</b></div> <i>TC Control Flags :</i> <div style="text-align: right; margin-right: 20px;">GBM IL DSE --Y --- ---</div> <i>Subsch. ID : 10</i> Det. descr. : EAT Disable Action related to SP_STBY_38402 TC(19,4)	XC375991	TC	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>EAT_SP_STBY_38403_DIS_AC</b></div> <i>TC Control Flags :</i> <div style="text-align: right; margin-right: 20px;">GBM IL DSE --Y --- ---</div> <i>Subsch. ID : 10</i> Det. descr. : EAT Disable Action related to SP_STBY_38403 TC(19,4)	XC376991	TC	
14		Delete EAT entries		Next Step: 15	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>DelEvtActEntry</b></div> <i>Command Parameter(s) :</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>N_Repetition</b>  <b>APID_for_EAT_TC</b>  <b>EventId</b> </div> <div style="width: 45%;">               DH041170                DH236170                DH146170             </div> </div> <i>TC Control Flags :</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>GBM IL DSE</b>  <b>--Y -- ---</b> </div> <div style="width: 45%;">               1 &lt;dec&gt; (Def)                CDMS (Def)                38400 &lt;dec&gt;             </div> </div> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Delete entry from event/action table TC(19,2)	DCT82170	TC	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>DelEvtActEntry</b></div> <i>Command Parameter(s) :</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>N_Repetition</b>  <b>APID_for_EAT_TC</b>  <b>EventId</b> </div> <div style="width: 45%;">               DH041170                DH236170                DH146170             </div> </div> <i>TC Control Flags :</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>GBM IL DSE</b>  <b>--Y -- ---</b> </div> <div style="width: 45%;">               1 &lt;dec&gt; (Def)                CDMS (Def)                38401 &lt;dec&gt;             </div> </div> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Delete entry from event/action table TC(19,2)	DCT82170	TC	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>DelEvtActEntry</b></div> <i>Command Parameter(s) :</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>N_Repetition</b>  <b>APID_for_EAT_TC</b>  <b>EventId</b> </div> <div style="width: 45%;">               DH041170                DH236170                DH146170             </div> </div> <i>TC Control Flags :</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>GBM IL DSE</b>  <b>--Y -- ---</b> </div> <div style="width: 45%;">               1 &lt;dec&gt; (Def)                CDMS (Def)                38402 &lt;dec&gt;             </div> </div> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Delete entry from event/action table TC(19,2)	DCT82170	TC	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>DelEvtActEntry</b></div> <i>Command Parameter(s) :</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>N_Repetition</b>  <b>APID_for_EAT_TC</b>  <b>EventId</b> </div> <div style="width: 45%;">               DH041170                DH236170                DH146170             </div> </div> <i>TC Control Flags :</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>GBM IL DSE</b>  <b>--Y -- ---</b> </div> <div style="width: 45%;">               1 &lt;dec&gt; (Def)                CDMS (Def)                38403 &lt;dec&gt;             </div> </div> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Delete entry from event/action table TC(19,2)	DCT82170	TC	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>ReptEvtActTable</b></div> <i>TC Control Flags :</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>GBM IL DSE</b>  <b>--Y -- ---</b> </div> <div style="width: 45%;">               1 &lt;dec&gt; (Def)                CDMS (Def)                38403 &lt;dec&gt;             </div> </div> <i>Subsch. ID : 10</i> Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	TC	
15		Disable MOT entries		Next Step: 16	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;"><b>ArmDisableMon</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> Arm Disable On Board Monitoring, TC(8,4,106,1)	DC54F170	TC	
		Execute Telecommand <p style="text-align: right;"><b>DisMonitOfParam_Templ</b></p> <i>Command Parameter(s) :</i> <p style="text-align: right;">N_Repetition           DH041170 ParameterId            DH042170 MonitorId              DH043170</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> TEMPLATE Disable Monitoring of Parameter, TC(12,2)	DCT27170  1 <dec> (Def) 2348 <dec> 1000 <dec>	TC	
		Execute Telecommand <p style="text-align: right;"><b>ArmDisableMon</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> Arm Disable On Board Monitoring, TC(8,4,106,1)	DC54F170	TC	
		Execute Telecommand <p style="text-align: right;"><b>DisMonitOfParam_Templ</b></p> <i>Command Parameter(s) :</i> <p style="text-align: right;">N_Repetition           DH041170 ParameterId            DH042170 MonitorId              DH043170</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> TEMPLATE Disable Monitoring of Parameter, TC(12,2)	DCT27170  1 <dec> (Def) 2349 <dec> 1001 <dec>	TC	
		Execute Telecommand <p style="text-align: right;"><b>ArmDisableMon</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> Arm Disable On Board Monitoring, TC(8,4,106,1)	DC54F170	TC	
		Execute Telecommand <p style="text-align: right;"><b>DisMonitOfParam_Templ</b></p> <i>Command Parameter(s) :</i> <p style="text-align: right;">N_Repetition           DH041170 ParameterId            DH042170 MonitorId              DH043170</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> TEMPLATE Disable Monitoring of Parameter, TC(12,2)	DCT27170  1 <dec> (Def) 2350 <dec> 1002 <dec>	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;"><b>ArmDisableMon</b></p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> Arm Disable On Board Monitoring, TC(8,4,106,1)	DC54F170	TC	
		Execute Telecommand <p style="text-align: right;"><b>DisMonitOfParam_Templ</b></p> <i>Command Parameter(s) :</i> <p style="text-align: right;">N_Repetition DH041170            ParameterId DH042170            MonitorId DH043170</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> TEMPLATE Disable Monitoring of Parameter, TC(12,2)	DCT27170  1 <dec> (Def) 2350 <dec> 1003 <dec>	TC	
16		Delete MOT entries		Next Step: 17	
		Execute Telecommand <p style="text-align: right;"><b>DeleteMonitParam_Templ</b></p> <i>Command Parameter(s) :</i> <p style="text-align: right;">N_Repetition XH321991            ParameterId XH322991            MonitorId XH323991</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> TEMPLATE Delete Parameters from the monitoring list, TC(12,6)	XC333991  1 <dec> (Def) DE92C170 <str> 1000 <dec>	TC	
		Execute Telecommand <p style="text-align: right;"><b>DeleteMonitParam_Templ</b></p> <i>Command Parameter(s) :</i> <p style="text-align: right;">N_Repetition XH321991            ParameterId XH322991            MonitorId XH323991</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> TEMPLATE Delete Parameters from the monitoring list, TC(12,6)	XC333991  1 <dec> (Def) DE92D170 <str> 1001 <dec>	TC	
		Execute Telecommand <p style="text-align: right;"><b>DeleteMonitParam_Templ</b></p> <i>Command Parameter(s) :</i> <p style="text-align: right;">N_Repetition XH321991            ParameterId XH322991            MonitorId XH323991</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID :</i> 10 <i>Det. descr. :</i> TEMPLATE Delete Parameters from the monitoring list, TC(12,6)	XC333991  1 <dec> (Def) DE92E170 <str> 1002 <dec>	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <b>DeleteMonitParam_Templ</b> Command Parameter(s) : N_Repetition            XH321991 ParameterId            XH322991 MonitorId              XH323991 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Delete Parameters from the monitoring list, TC(12,6)	XC333991	TC	
		Execute Telecommand <b>ReportMonitList</b> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Report current monitoring list, TC(12,8), no appl. data	DC20L170	TC	
17		Stop OBCP 11FF		Next Step: 18	
		Execute Telecommand <b>StopObcP</b> Command Parameter(s) : ObcPId                  DH135170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Stop OBCP TC(18,4)	DCT72170	TC	
		Execute Telecommand <b>ReptOnBoardObcPs</b> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Report list of on-board OBCPs TC(18,8)	DCT76170	TC	
		Note that the BSW continues to generate HKID 200 with the last value written to the datapool by the OBCP			
18		Stop generation of HKID 200		Next Step: END	
		Execute Telecommand <b>ReportEnabledTm</b> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Report Enabled Telemetry Packets	DC904180	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">DisableTmGen</p> Command Parameter(s) : N                  DH017180          1 <dec> (Def) Sub-Type          DH019180          Diag Report Packet-ID      DH020180          200 <dec>  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : Disable Generation of Telemetry Packets	DC902180	TC	
		Execute Telecommand <p style="text-align: right;">ReportEnabledTm</p> TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : Report Enabled Telemetry Packets	DC904180	TC	
End of Sequence					
<b>End of Procedure</b>					

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ZAZD0999 / SPIRE_FDIR							
ID	DESCRIPTION	VALUE	UNIT	ID	DESCRIPTION	VALUE	UNIT
SMS0K520 DE92C170	SCAL2TEMP SCAL2TEMP						
SMS1K520 DE92D170	SCAL4TEMP SCAL4TEMP						
SMS5A515 DE92E170	SMECMOTORCURR SMECMOTORCURR						
SMS1W515 DE92F170	SMECLVDPWR SMECLVDPWR						