

Thermal Control Loop MOT Check_mask update
 File: H_CRP_TCS_CLMX.xls
 Author: E. Picallo



Procedure Summary

Objectives

This procedure describes the steps needed to update the MOT Check Mask parameter value related to thermal control entries in order to exclude a certain control loop from the FDIR.

Nominally all thermal control loops shall be included in the MOT Check Mask in order to be able to generate the event that triggers the associated HPSx_Th_Cntrl_Failure reconfiguration in case of thermal control loop failure.

Summary of Constraints

This procedure simply contains an editable version of the uplink default MOT commands related to the thermal control. It shall be used to update the MOT Check Mask parameter as needed.

The MOT entry may have to be disabled to avoid immediate reaction. Up to the SOE to decide.

Spacecraft Configuration

Start of Procedure

CDMU in default configuration;
 HPSx_Thermal_Control_Failure default Check Value

End of Procedure

CDMU in default configuration;
 HPSx_Thermal_Control_Failure Check Value updated

Reference File(s)

Input Command Sequences

Output Command Sequences

HRTCLMX1
 HRTCLMX2
 HRTCLMX3
 HRTCLMX4
 HRTCLMX5
 HRTCLMX6
 HRTCLMX7
 HRTCLMX8
 HRTCLMX9

Referenced Displays

ANDs GRDs SLDs

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
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Status : Version 1 - Unchanged
 Last Checkin: 03/04/09

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03/04/09

2.3

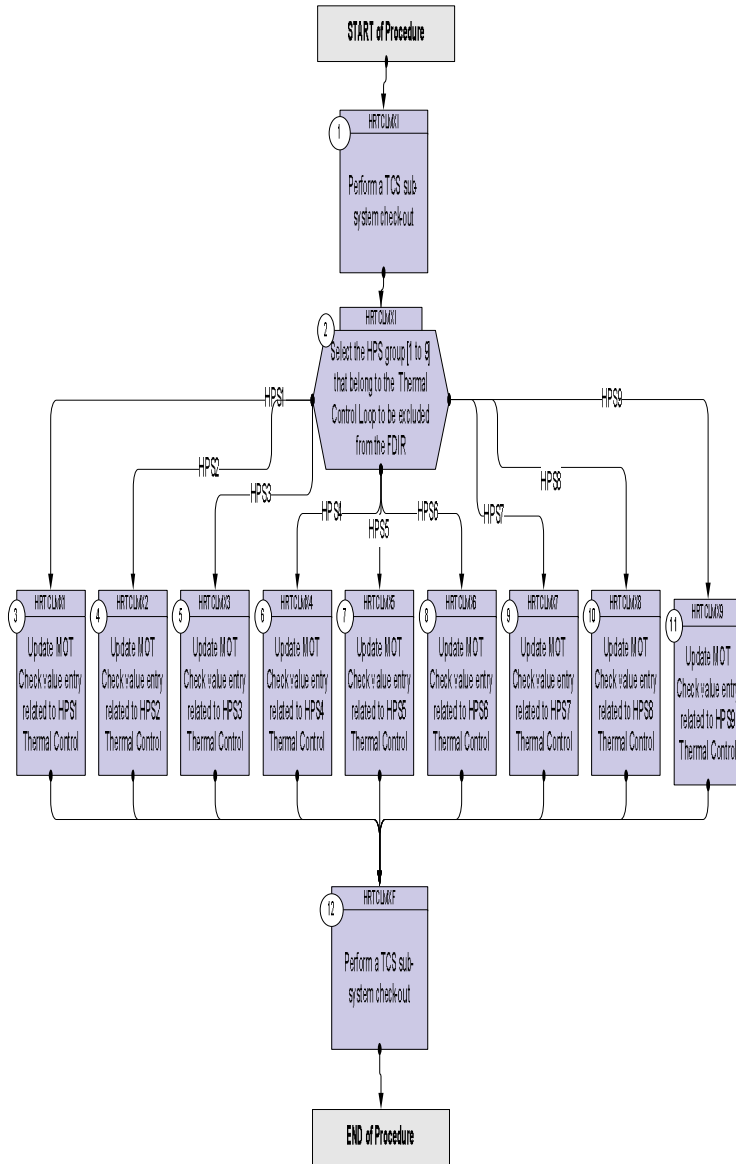
1 Created

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Procedure Flowchart Overview

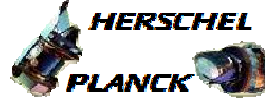


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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
TC Seq. Name :HRTCLMXI (Loop MOT mask Init) Thermal Control Loop MOT Check_mask update TimeTag Type: Sub Schedule ID: <input type="checkbox"/>				
1		Perform a TCS sub-system check-out		Next Step: 2
		Execute Procedure: H_FCP_TCS_CHECK TCS Subsystem Checkout		
2		Select the HPS group [1 to 9] that belong to the Thermal Control Loop to be excluded from the FDIR		Next Step: HPS1 3 HPS2 4 HPS3 5 HPS4 6 HPS5 7 HPS6 8 HPS7 9 HPS8 10 HPS9 11
2.1		Select HPS1 for control loops: XPND1 RCS piping #2 FCV C2B FCV A1B XPND2		<input type="checkbox"/>
2.2		Select HPS2 for control loops: FPDPU/FPSPU FCV C4B FCV A2B FCV C1B		<input type="checkbox"/>
2.3		Select HPS3 for control loops: GYRO CCU RCS piping #1 FPDECMEC CRS-1 FPBOLC		<input type="checkbox"/>

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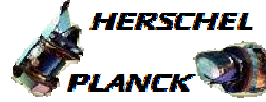
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
2.4		Select HPS4 for control loops: RCS piping # 7 FCV C2A&C2B FCV A1A&A1B RCS piping # 6 FHWOV		<input type="checkbox"/>
2.5		Select HPS5 for control loops: PT/LF/LV1/LV2 RCS piping #8 FCV C3B FHWEV/FHICU FHHRH CRS-2		<input type="checkbox"/>
2.6		Select HPS6 for control loops: RWL2 FHIFV RWL3 RWL1 RWL4		<input type="checkbox"/>
2.7		Select HPS7 for control loops: FCV A2A&A2B FCV C1A&C1B FHWEH FHWOH BATTERY STR's		<input type="checkbox"/>
2.8		Select HPS8 for control loops: FHLCU RCS piping #5 STR 2 Primary Baffle RCS piping #3 FCV C3A&C3B FHHRV		<input type="checkbox"/>
2.9		Select HPS9 for control loops: Tank +Y STR_1 Primary Baffle FHLSU FCV C4A&C4B Tank -Y		<input type="checkbox"/>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																								
<p><i>TC Seq. Name :HRTCLMX1 (HPS1 Loop MOT mask)</i> HPS1 Thermal Control Loop MOT Check_mask update</p> <p><i>TimeTag Type: N</i> <i>Sub Schedule ID:</i></p> <p>□</p>																												
3		<p>Update MOT Check value entry related to HPS1 Thermal Control</p>		Next Step: 12																								
		<p>Execute Telecommand</p> <p style="text-align: center;">LoadMotEntryMonId_21</p> <p>Command Parameter(s) :</p> <table border="0"> <tr> <td>ParamMonStatus</td> <td>XH044993</td> <td>Enabled (Def)</td> </tr> <tr> <td>MonitInterval</td> <td>XH045993</td> <td>1440 <dec> (Def)</td> </tr> <tr> <td>RepNumber</td> <td>XH046993</td> <td>2 <dec> (Def)</td> </tr> <tr> <td>CheckValue</td> <td>XH047993</td> <td>0 <dec> (Def)</td> </tr> <tr> <td>CheckMask</td> <td>XH048993</td> <td>00111110 <bin> (Def)</td> </tr> <tr> <td>CheckTypeId</td> <td>XH049993</td> <td>MaskNEqChkVal (Def)</td> </tr> <tr> <td>Event1Id</td> <td>XH050993</td> <td>32787 <dec> (Def)</td> </tr> <tr> <td>Event2Id</td> <td>XH051993</td> <td>49171 <dec> (Def)</td> </tr> </table> <p>TC Control Flags :</p> <p style="text-align: center;">GBM IL DSE</p> <p style="text-align: center;">--Y -- ---</p> <p>Subsch. ID : 10 Det. descr. : Load MOT entry MonId21 to the Default MOT</p>	ParamMonStatus	XH044993	Enabled (Def)	MonitInterval	XH045993	1440 <dec> (Def)	RepNumber	XH046993	2 <dec> (Def)	CheckValue	XH047993	0 <dec> (Def)	CheckMask	XH048993	00111110 <bin> (Def)	CheckTypeId	XH049993	MaskNEqChkVal (Def)	Event1Id	XH050993	32787 <dec> (Def)	Event2Id	XH051993	49171 <dec> (Def)	XCK60993	
ParamMonStatus	XH044993	Enabled (Def)																										
MonitInterval	XH045993	1440 <dec> (Def)																										
RepNumber	XH046993	2 <dec> (Def)																										
CheckValue	XH047993	0 <dec> (Def)																										
CheckMask	XH048993	00111110 <bin> (Def)																										
CheckTypeId	XH049993	MaskNEqChkVal (Def)																										
Event1Id	XH050993	32787 <dec> (Def)																										
Event2Id	XH051993	49171 <dec> (Def)																										
		<p>The HPS1 default Check Mask (16 bit) set the following bits to 1 to includes the associated loops in the FDIR:</p> <p>bit Description 10 ChkId_24 XPND1 TCS Failure HPS1_HCS6 11 ChkId_23 RCS piping #2 TCS Failure HPS1_HCS5 12 ChkId_22 FCV C2B TCS Failure HPS1_HCS4 13 ChkId_21 FCV A1B TCS Failure HPS1_HCS23 14 ChkId_20 XPND2 TCS Failure HPS1_HCS2</p>																										
		<p>Note: Bit 0 is the MSB and Bit 15 is the LSB</p>																										
<p><i>TC Seq. Name :HRTCLMX2 (HPS2 Loop MOT mask)</i> HPS2 Thermal Control Loop MOT Check_mask update</p> <p><i>TimeTag Type: N</i> <i>Sub Schedule ID:</i></p> <p>□</p>																												
4		<p>Update MOT Check value entry related to HPS2 Thermal Control</p>		Next Step: 12																								

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: center;">LoadMotEntryMonId_27</p> Command Parameter(s) : ParamMonStatus XH044993 Enabled (Def) MonitInterval XH045993 1440 <dec> (Def) RepNumber XH046993 2 <dec> (Def) CheckValue XH047993 0 <dec> (Def) CheckMask XH048993 0001111000000000 CheckTypeId XH049993 <bin> (Def) Event1Id XH050993 MaskNEqChkVal Event2Id XH051993 (Def) 32803 <dec> (Def) 49187 <dec> (Def) TC Control Flags : <p style="text-align: center;">GBM IL DSE</p> <p style="text-align: center;">--Y -- --</p> Subsch. ID : 10 Det. descr. : Load MOT entry MonId27 to the Default MOT	XCK61993	
		The HPS2 default Check Mask (16 bit) set the following bits to 1 to includes the associated loops in the FDIR: bit Description 3 ChkId_29 FPDP/FPSPU TCS Failure HPS2_HCS5 4 ChkId_28 FCV C4B TCS Failure HPS2_HCS4 5 ChkId_27 FCV A2B TCS Failure HPS2_HCS3 6 ChkId_26 FCV C1B TCS Failure HPS2_HCS2		
		Note: Bit 0 is the MSB and Bit 15 is the LSB		
TC Seq. Name :HRTCLMX3 (HPS3 Loop MOT mask) HPS3 Thermal Control Loop MOT Check_mask update TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
5		Update MOT Check value entry related to HPS3 Thermal Control		Next Step: 12

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																								
		Execute Telecommand <p style="text-align: center;">LoadMotEntryMonId_33</p> <i>Command Parameter(s) :</i> <table border="0"> <tr><td>ParamMonStatus</td><td>XH044993</td><td>Enabled (Def)</td></tr> <tr><td>MonitInterval</td><td>XH045993</td><td>1440 <dec> (Def)</td></tr> <tr><td>RepNumber</td><td>XH046993</td><td>2 <dec> (Def)</td></tr> <tr><td>CheckValue</td><td>XH047993</td><td>0 <dec> (Def)</td></tr> <tr><td>CheckMask</td><td>XH048993</td><td>00111111 <bin></td></tr> <tr><td>CheckTypeId</td><td>XH049993</td><td>(Def)</td></tr> <tr><td>Event1Id</td><td>XH050993</td><td>MaskNEqChkVal</td></tr> <tr><td>Event2Id</td><td>XH051993</td><td>(Def)</td></tr> </table> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE</p> <p style="text-align: center;">--Y -- --</p> <i>Subsch. ID : 10</i> Det. descr. : Load MOT entry MonId33 to the Default MOT	ParamMonStatus	XH044993	Enabled (Def)	MonitInterval	XH045993	1440 <dec> (Def)	RepNumber	XH046993	2 <dec> (Def)	CheckValue	XH047993	0 <dec> (Def)	CheckMask	XH048993	00111111 <bin>	CheckTypeId	XH049993	(Def)	Event1Id	XH050993	MaskNEqChkVal	Event2Id	XH051993	(Def)	XCK62993	
ParamMonStatus	XH044993	Enabled (Def)																										
MonitInterval	XH045993	1440 <dec> (Def)																										
RepNumber	XH046993	2 <dec> (Def)																										
CheckValue	XH047993	0 <dec> (Def)																										
CheckMask	XH048993	00111111 <bin>																										
CheckTypeId	XH049993	(Def)																										
Event1Id	XH050993	MaskNEqChkVal																										
Event2Id	XH051993	(Def)																										
		The HPS3 default Check Mask (16 bit) set the following bits to 1 to includes the associated loops in the FDIR: bit Description 10 ChkId_36 GYRO TCS Failure HPS3_HCS6 11 ChkId_35 CCU TCS Failure HPS3_HCS5 12 ChkId_34 RCS piping #1 TCS Failure HPS3_HCS4 13 ChkId_33 FPDECMC TCS Failure HPS3_HCS3 14 ChkId_32 CRS-1 TCS Failure HPS3_HCS2 Loop 07 15 ChkId_31 FPBOLC TCS Failure HPS3_HCS1																										
		Note: Bit 0 is the MSB and Bit 15 is the LSB																										
TC Seq. Name :HRTCLMX4 (HPS4 Loop MOT mask) HPS4 Thermal Control Loop MOT Check_mask update TimeTag Type: Sub Schedule ID: <input type="checkbox"/>																												
6		Update MOT Check value entry related to HPS4 Thermal Control		Next Step: 12																								

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																														
		Execute Telecommand <p style="text-align: center;">LoadMotEntryMonId_39</p> Command Parameter(s) : <table border="0"> <tr><td>ParamMonStatus</td><td>XH044993</td><td>Enabled (Def)</td></tr> <tr><td>MonitInterval</td><td>XH045993</td><td>1440 <dec> (Def)</td></tr> <tr><td>RepNumber</td><td>XH046993</td><td>2 <dec> (Def)</td></tr> <tr><td>CheckValue</td><td>XH047993</td><td>0 <dec> (Def)</td></tr> <tr><td>CheckMask</td><td>XH048993</td><td>0011111000000000</td></tr> <tr><td>CheckTypeId</td><td>XH049993</td><td><bin> (Def)</td></tr> <tr><td>Event1Id</td><td>XH050993</td><td>MaskNEqChkVal</td></tr> <tr><td>Event2Id</td><td>XH051993</td><td>(Def)</td></tr> <tr><td></td><td></td><td>32835 <dec> (Def)</td></tr> <tr><td></td><td></td><td>49219 <dec> (Def)</td></tr> </table> TC Control Flags : <p style="text-align: center;">GBM IL DSE</p> <p style="text-align: center;">--Y -- --</p> Subsch. ID : 10 Det. descr. : Load MOT entry MonId39 to the Default MOT	ParamMonStatus	XH044993	Enabled (Def)	MonitInterval	XH045993	1440 <dec> (Def)	RepNumber	XH046993	2 <dec> (Def)	CheckValue	XH047993	0 <dec> (Def)	CheckMask	XH048993	0011111000000000	CheckTypeId	XH049993	<bin> (Def)	Event1Id	XH050993	MaskNEqChkVal	Event2Id	XH051993	(Def)			32835 <dec> (Def)			49219 <dec> (Def)	XCK63993	
ParamMonStatus	XH044993	Enabled (Def)																																
MonitInterval	XH045993	1440 <dec> (Def)																																
RepNumber	XH046993	2 <dec> (Def)																																
CheckValue	XH047993	0 <dec> (Def)																																
CheckMask	XH048993	0011111000000000																																
CheckTypeId	XH049993	<bin> (Def)																																
Event1Id	XH050993	MaskNEqChkVal																																
Event2Id	XH051993	(Def)																																
		32835 <dec> (Def)																																
		49219 <dec> (Def)																																
		The HPS4 default Check Mask (16 bit) set the following bits to 1 to includes the associated loops in the FDIR: bit Description 2 ChkId_42 RCS piping # 7 TCS Failure HPS4_HCS6 3 ChkId_41 FCV C2A&C2B TCS Failure HPS4_HCS5 4 ChkId_40 FCV A1A&A1B TCS Failure HPS4_HCS4 5 ChkId_39 RCS piping # 6 TCS Failure HPS4_HCS3 6 ChkId_38 FHWOV TCS Failure HPS4_HCS2																																
		Note: Bit 0 is the MSB and Bit 15 is the LSB																																
TC Seq. Name : (HPS5 Loop MOT mask) HPS5 Thermal Control Loop MOT Check_mask update TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>																																		
7		Update MOT Check value entry related to HPS5 Thermal Control		Next Step: 12																														

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																														
		Execute Telecommand <p style="text-align: center;">LoadMotEntryMonId_45</p> Command Parameter(s) : <table border="0"> <tr><td>ParamMonStatus</td><td>XH044993</td><td>Enabled (Def)</td></tr> <tr><td>MonitInterval</td><td>XH045993</td><td>1440 <dec> (Def)</td></tr> <tr><td>RepNumber</td><td>XH046993</td><td>2 <dec> (Def)</td></tr> <tr><td>CheckValue</td><td>XH047993</td><td>0 <dec> (Def)</td></tr> <tr><td>CheckMask</td><td>XH048993</td><td>00111111 <bin></td></tr> <tr><td>CheckTypeId</td><td>XH049993</td><td>(Def)</td></tr> <tr><td>Event1Id</td><td>XH050993</td><td>MaskNEqChkVal</td></tr> <tr><td>Event2Id</td><td>XH051993</td><td>(Def)</td></tr> <tr><td></td><td></td><td>32851 <dec> (Def)</td></tr> <tr><td></td><td></td><td>49235 <dec> (Def)</td></tr> </table> TC Control Flags : <p style="text-align: center;">GBM IL DSE</p> <p style="text-align: center;">--Y -- ---</p> Subsch. ID : 10 Det. descr. : Load MOT entry MonId45 to the Default MOT	ParamMonStatus	XH044993	Enabled (Def)	MonitInterval	XH045993	1440 <dec> (Def)	RepNumber	XH046993	2 <dec> (Def)	CheckValue	XH047993	0 <dec> (Def)	CheckMask	XH048993	00111111 <bin>	CheckTypeId	XH049993	(Def)	Event1Id	XH050993	MaskNEqChkVal	Event2Id	XH051993	(Def)			32851 <dec> (Def)			49235 <dec> (Def)	XCK64993	
ParamMonStatus	XH044993	Enabled (Def)																																
MonitInterval	XH045993	1440 <dec> (Def)																																
RepNumber	XH046993	2 <dec> (Def)																																
CheckValue	XH047993	0 <dec> (Def)																																
CheckMask	XH048993	00111111 <bin>																																
CheckTypeId	XH049993	(Def)																																
Event1Id	XH050993	MaskNEqChkVal																																
Event2Id	XH051993	(Def)																																
		32851 <dec> (Def)																																
		49235 <dec> (Def)																																
		The HPS5 default Check Mask (16 bit) set the following bits to 1 to includes the associated loops in the FDIR: bit Description 10 ChkId_48 PT/LF/LV1/LV2 TCS Failure HPS5_HCS6 11 ChkId_47 RCS piping #8 TCS Failure HPS5_HCS5 12 ChkId_46 FCV C3B TCS Failure HPS5_HCS4 13 ChkId_45 FHWEV/FHICU TCS Failure HPS5_HCS3 14 ChkId_44 FHHRH TCS Failure HPS5_HCS2 15 ChkId_43 CRS-2 TCS Failure HPS5_HCS1																																
		Note: Bit 0 is the MSB and Bit 15 is the LSB																																
TC Seq. Name :HRTCLMX6 (HPS6 Loop MOT mask) HPS6 Thermal Control Loop MOT Check_mask update TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>																																		
8		Update MOT Check value entry related to HPS6 Thermal Control		Next Step: 12																														

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																								
		Execute Telecommand <p style="text-align: center;">LoadMotEntryMonId_51</p> <i>Command Parameter(s) :</i> <table border="0"> <tr><td>ParamMonStatus</td><td>XH044993</td><td>Enabled (Def)</td></tr> <tr><td>MonitInterval</td><td>XH045993</td><td>1440 <dec> (Def)</td></tr> <tr><td>RepNumber</td><td>XH046993</td><td>2 <dec> (Def)</td></tr> <tr><td>CheckValue</td><td>XH047993</td><td>0 <dec> (Def)</td></tr> <tr><td>CheckMask</td><td>XH048993</td><td>0011111000000000</td></tr> <tr><td>CheckTypeId</td><td>XH049993</td><td><bin> (Def)</td></tr> <tr><td>Event1Id</td><td>XH050993</td><td>MaskNEqChkVal</td></tr> <tr><td>Event2Id</td><td>XH051993</td><td>(Def)</td></tr> </table> <i>TC Control Flags :</i> <p style="text-align: center;">GBM IL DSE</p> <p style="text-align: center;">--Y -- --</p> <i>Subsch. ID : 10</i> Det. descr. : Load MOT entry MonId51 to the Default MOT	ParamMonStatus	XH044993	Enabled (Def)	MonitInterval	XH045993	1440 <dec> (Def)	RepNumber	XH046993	2 <dec> (Def)	CheckValue	XH047993	0 <dec> (Def)	CheckMask	XH048993	0011111000000000	CheckTypeId	XH049993	<bin> (Def)	Event1Id	XH050993	MaskNEqChkVal	Event2Id	XH051993	(Def)	XCK65993	
ParamMonStatus	XH044993	Enabled (Def)																										
MonitInterval	XH045993	1440 <dec> (Def)																										
RepNumber	XH046993	2 <dec> (Def)																										
CheckValue	XH047993	0 <dec> (Def)																										
CheckMask	XH048993	0011111000000000																										
CheckTypeId	XH049993	<bin> (Def)																										
Event1Id	XH050993	MaskNEqChkVal																										
Event2Id	XH051993	(Def)																										
		<p>The HPS6 default Check Mask (16 bit) set the following bits to 1 to includes the associated loops in the FDIR:</p> bit Description 2 ChkId_54 RWL2 TCS Failure HPS6_HCS6 3 ChkId_53 FHIFV TCS Failure HPS6_HCS5 4 ChkId_52 RWL3 TCS Failure HPS6_HCS4 5 ChkId_51 RWL1 TCS Failure HPS6_HCS3 6 ChkId_50 RWL4 TCS Failure HPS6_HCS2																										
		<p>Note: Bit 0 is the MSB and Bit 15 is the LSB</p>																										
TC Seq. Name :HRTCLMX7 (HPS7 Loop MOT mask) HPS7 Thermal Control Loop MOT Check_mask update TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>																												
9		Update MOT Check value entry related to HPS7 Thermal Control		Next Step: 12																								

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																														
		Execute Telecommand <p style="text-align: center;">LoadMotEntryMonId_63</p> Command Parameter(s) : <table border="0"> <tr><td>ParamMonStatus</td><td>XH044993</td><td>Enabled (Def)</td></tr> <tr><td>MonitInterval</td><td>XH045993</td><td>1440 <dec> (Def)</td></tr> <tr><td>RepNumber</td><td>XH046993</td><td>2 <dec> (Def)</td></tr> <tr><td>CheckValue</td><td>XH047993</td><td>0 <dec> (Def)</td></tr> <tr><td>CheckMask</td><td>XH048993</td><td>0011111100000000</td></tr> <tr><td>CheckTypeId</td><td>XH049993</td><td><bin> (Def)</td></tr> <tr><td>Event1Id</td><td>XH050993</td><td>MaskNEqChkVal</td></tr> <tr><td>Event2Id</td><td>XH051993</td><td>(Def)</td></tr> <tr><td></td><td></td><td>32899 <dec> (Def)</td></tr> <tr><td></td><td></td><td>49283 <dec> (Def)</td></tr> </table> TC Control Flags : <p style="text-align: right;">GBM IL DSE</p> <p style="text-align: center;">--Y -- ---</p> Subsch. ID : 10 Det. descr. : Load MOT entry MonId63 to the Default MOT	ParamMonStatus	XH044993	Enabled (Def)	MonitInterval	XH045993	1440 <dec> (Def)	RepNumber	XH046993	2 <dec> (Def)	CheckValue	XH047993	0 <dec> (Def)	CheckMask	XH048993	0011111100000000	CheckTypeId	XH049993	<bin> (Def)	Event1Id	XH050993	MaskNEqChkVal	Event2Id	XH051993	(Def)			32899 <dec> (Def)			49283 <dec> (Def)	XCK67993	
ParamMonStatus	XH044993	Enabled (Def)																																
MonitInterval	XH045993	1440 <dec> (Def)																																
RepNumber	XH046993	2 <dec> (Def)																																
CheckValue	XH047993	0 <dec> (Def)																																
CheckMask	XH048993	0011111100000000																																
CheckTypeId	XH049993	<bin> (Def)																																
Event1Id	XH050993	MaskNEqChkVal																																
Event2Id	XH051993	(Def)																																
		32899 <dec> (Def)																																
		49283 <dec> (Def)																																
		The HPS8 default Check Mask (16 bit) set the following bits to 1 to includes the associated loops in the FDIR: bit Description 2 ChkId_66 FHLCU TCS Failure HPS8_HCS6 3 ChkId_65 RCS piping #5TCS Failure HPS8_HCS5 4 ChkId_64 STR 2 Primary Baffle TCS Failure HPS8_HCS4 5 ChkId_63 RCS piping #3 TCS Failure HPS8_HCS3 6 ChkId_62 FCV C3A&C3B TCS Failure HPS8_HCS2 7 ChkId_61 FHHRV TCS Failure HPS8_HCS1																																
		Note: Bit 0 is the MSB and Bit 15 is the LSB																																
TC Seq. Name :HRTCLMX9 (HPS9 Loop MOT mask) HPS9 Thermal Control Loop MOT Check_mask update TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>																																		
11		Update MOT Check value entry related to HPS9 Thermal Control		Next Step: 12																														

Thermal Control Loop MOT Check_mask update
 File: H_CRP_TCS_CLMX.xls
 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																								
		Execute Telecommand <p style="text-align: center;">LoadMotEntryMonId_69</p> Command Parameter(s) : <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">ParamMonStatus</td> <td style="width: 20%;">XH044993</td> <td style="width: 50%;">Enabled (Def)</td> </tr> <tr> <td>MonitInterval</td> <td>XH045993</td> <td>1440 <dec> (Def)</td> </tr> <tr> <td>RepNumber</td> <td>XH046993</td> <td>2 <dec> (Def)</td> </tr> <tr> <td>CheckValue</td> <td>XH047993</td> <td>0 <dec> (Def)</td> </tr> <tr> <td>CheckMask</td> <td>XH048993</td> <td>00111110 <bin></td> </tr> <tr> <td>CheckTypeId</td> <td>XH049993</td> <td>(Def)</td> </tr> <tr> <td>Event1Id</td> <td>XH050993</td> <td>MaskNEqChkVal</td> </tr> <tr> <td>Event2Id</td> <td>XH051993</td> <td>(Def)</td> </tr> </table> TC Control Flags : <p style="text-align: center;">GBM IL DSE</p> <p style="text-align: center;">--Y -- ---</p> Subsch. ID : 10 Det. descr. : Load MOT entry MonId69 to the Default MOT	ParamMonStatus	XH044993	Enabled (Def)	MonitInterval	XH045993	1440 <dec> (Def)	RepNumber	XH046993	2 <dec> (Def)	CheckValue	XH047993	0 <dec> (Def)	CheckMask	XH048993	00111110 <bin>	CheckTypeId	XH049993	(Def)	Event1Id	XH050993	MaskNEqChkVal	Event2Id	XH051993	(Def)	XCK68993	
ParamMonStatus	XH044993	Enabled (Def)																										
MonitInterval	XH045993	1440 <dec> (Def)																										
RepNumber	XH046993	2 <dec> (Def)																										
CheckValue	XH047993	0 <dec> (Def)																										
CheckMask	XH048993	00111110 <bin>																										
CheckTypeId	XH049993	(Def)																										
Event1Id	XH050993	MaskNEqChkVal																										
Event2Id	XH051993	(Def)																										
		The HPS9 default Check Mask (16 bit) set the following bits to 1 to includes the associated loops in the FDIR: bit Description 10 ChkId_72 Tank +Y TCS Failure HPS9_HCS6 11 ChkId_71 STR_1 Primary Baffle TCS Failure HPS9_HCS5 12 ChkId_70 FHLSU TCS Failure HPS9_HCS4 13 ChkId_69 FCV C4A&C4B TCS Failure HPS9_HCS3 14 ChkId_68 Tank -Y TCS Failure HPS9_HCS2																										
		Note: Bit 0 is the MSB and Bit 15 is the LSB																										
TC Seq. Name :HRTCLMXF (Loop MOT mask Final) Thermal Control Loop MOT Check_mask update Final TimeTag Type: Sub Schedule ID: <input type="checkbox"/>																												
12		Perform a TCS sub-system check-out		Next Step: END																								
		Execute Procedure: H_FCP_TCS_CHECK TCS Subsystem Checkout																										
End of Procedure																												