

Stop Decontamination heating during Telescope cool down  
 File: H\_COP\_SYS\_DEC0.xls  
 Author: E. Picallo



## Procedure Summary

### Objectives

This procedure describes the steps needed to stop the decontamination heating of the telescope mirrors during Telescope cool down

### Summary of Constraints

Decontamination using only 3 lines on M1 (lines 4, 6 and 7) and both M2 lines:  
 M1 heater line 4 (HPS 17 HCS 1 R)  
 M1 heater line 6 (HPS 15 HCS 1 R)  
 M1 heater line 7 (HPS 06 HCS 1 N)  
 M2 heater line 1 (HPS 01 HCS 1 N)  
 M2 heater line 2 (HPS 10 HCS 1 R)

### Spacecraft Configuration

#### Start of Procedure

Decontamination Heating Function running  
 HPS-N 1 and 6 ON and associated HCS 1 ON or OFF  
 HPS-R 10, 15 and 17 ON and associated HCS 1 ON or OFF

#### End of Procedure

Decontamination Heating Function stopped  
 HPS-N 1 and 6 ON and associated HCS 1 OFF  
 HPS-R 10, 15 and 17 OFF and associated HCS 1 OFF

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

HCYDEC0

### Referenced Displays

ANDs      GRDs      SLDs  
 ZAZ9J999

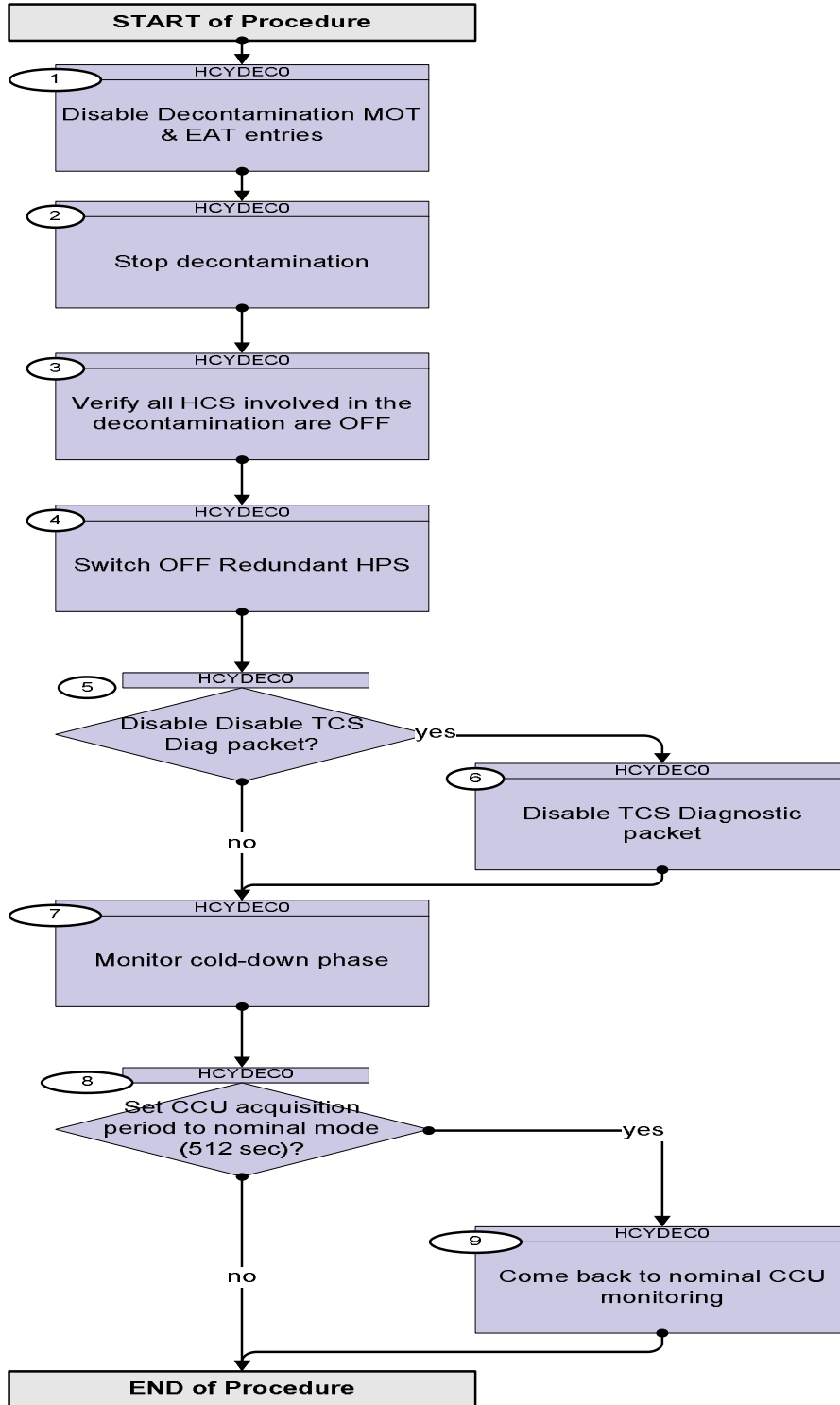
### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
02/04/09		1	Created	E. Picallo	
15/04/09	2.3	2	Decontamination lines used for M1 are 4, 6 & 7 update	E. Picallo	
27/04/09	2.4	3	TCs to disable 10 new pair of MOT/EAT entries added	E. Picallo	

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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>																																											
<p><i>TC Seq. Name : HCYDEC0 (Stop Decont COP)</i>            Stop decontamination heating during Telescope cool down</p> <p><i>TimeTag Type: N</i>  <i>Sub Schedule ID:</i></p> <p style="text-align: center;">□</p>																																											
1		Disable Decontamination MOT & EAT entries		Next Step: 2																																							
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		<p><b>There 10 entries defined in the EAT related to decontamination:</b></p> <table border="1"> <thead> <tr> <th>APID</th> <th>Event ID</th> <th>Action TC</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>For M1</b></td> </tr> <tr> <td>16(CDMS)</td> <td>40976</td> <td>Switch OFF HPS1 TC(8,4,112,3)</td> </tr> <tr> <td>16(CDMS)</td> <td>40977</td> <td>Switch OFF HPS6 TC(8,4,112,3)</td> </tr> <tr> <td>16(CDMS)</td> <td>40978</td> <td>Switch OFF HPS10 TC(8,4,112,3)</td> </tr> <tr> <td>16(CDMS)</td> <td>40979</td> <td>Switch OFF HPS15 TC(8,4,112,3)</td> </tr> <tr> <td>16(CDMS)</td> <td>40980</td> <td>Switch OFF HPS17 TC(8,4,112,3)</td> </tr> <tr> <td colspan="3"><b>For M2</b></td> </tr> <tr> <td>16(CDMS)</td> <td>40984</td> <td>Switch OFF HPS1 TC(8,4,112,3)</td> </tr> <tr> <td>16(CDMS)</td> <td>40985</td> <td>Switch OFF HPS6 TC(8,4,112,3)</td> </tr> <tr> <td>16(CDMS)</td> <td>40986</td> <td>Switch OFF HPS10 TC(8,4,112,3)</td> </tr> <tr> <td>16(CDMS)</td> <td>40987</td> <td>Switch OFF HPS15 TC(8,4,112,3)</td> </tr> <tr> <td>16(CDMS)</td> <td>40988</td> <td>Switch OFF HPS17 TC(8,4,112,3)</td> </tr> </tbody> </table>	APID	Event ID	Action TC	<b>For M1</b>			16(CDMS)	40976	Switch OFF HPS1 TC(8,4,112,3)	16(CDMS)	40977	Switch OFF HPS6 TC(8,4,112,3)	16(CDMS)	40978	Switch OFF HPS10 TC(8,4,112,3)	16(CDMS)	40979	Switch OFF HPS15 TC(8,4,112,3)	16(CDMS)	40980	Switch OFF HPS17 TC(8,4,112,3)	<b>For M2</b>			16(CDMS)	40984	Switch OFF HPS1 TC(8,4,112,3)	16(CDMS)	40985	Switch OFF HPS6 TC(8,4,112,3)	16(CDMS)	40986	Switch OFF HPS10 TC(8,4,112,3)	16(CDMS)	40987	Switch OFF HPS15 TC(8,4,112,3)	16(CDMS)	40988	Switch OFF HPS17 TC(8,4,112,3)		
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		These EAT entries shall be disabled before stopping decontamination function.																																									
		Execute Telecommand <div style="text-align: right; margin-right: 20px;">DisableActions</div> Command Parameter(s) : <table border="1" style="margin-left: 20px;"> <thead> <tr> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>N_Repetition</td> <td>DH041170</td> <td>10 &lt;dec&gt;</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>40976 &lt;dec&gt;</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>40977 &lt;dec&gt;</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>40978 &lt;dec&gt;</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>40979 &lt;dec&gt;</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>40980 &lt;dec&gt;</td> </tr> </tbody> </table>				N_Repetition	DH041170	10 <dec>	APID_for_EAT_TC	DH236170	CDMS (Def)	EventId	DH146170	40976 <dec>	APID_for_EAT_TC	DH236170	CDMS (Def)	EventId	DH146170	40977 <dec>	APID_for_EAT_TC	DH236170	CDMS (Def)	EventId	DH146170	40978 <dec>	APID_for_EAT_TC	DH236170	CDMS (Def)	EventId	DH146170	40979 <dec>	APID_for_EAT_TC	DH236170	CDMS (Def)	EventId	DH146170	40980 <dec>	DCT85170				
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1.2		Report EAT table to check the decontamination EAT entries		<input type="checkbox"/>																																	
		Execute Telecommand  ReptEvtActTable  TC Control Flags :  GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170																																		
1.3		Disable Decontamination MOT entries		<input type="checkbox"/>																																	
		There are 10 entries defined in the MOT related to decontamination: <table border="1"> <thead> <tr> <th>Parameter ID</th> <th>Monitoring ID</th> <th>Event ID</th> </tr> </thead> <tbody> <tr> <td>M1 median temp (2048)</td> <td>216</td> <td>40976</td> </tr> <tr> <td>M1 median temp (2048)</td> <td>217</td> <td>40977</td> </tr> <tr> <td>M1 median temp (2048)</td> <td>218</td> <td>40978</td> </tr> <tr> <td>M1 median temp (2048)</td> <td>219</td> <td>40979</td> </tr> <tr> <td>M1 median temp (2048)</td> <td>220</td> <td>40980</td> </tr> <tr> <td>M2 median temp (2049)</td> <td>224</td> <td>40984</td> </tr> <tr> <td>M2 median temp (2049)</td> <td>225</td> <td>40985</td> </tr> <tr> <td>M2 median temp (2049)</td> <td>226</td> <td>40986</td> </tr> <tr> <td>M2 median temp (2049)</td> <td>227</td> <td>40987</td> </tr> <tr> <td>M2 median temp (2049)</td> <td>228</td> <td>40988</td> </tr> </tbody> </table>	Parameter ID	Monitoring ID	Event ID	M1 median temp (2048)	216	40976	M1 median temp (2048)	217	40977	M1 median temp (2048)	218	40978	M1 median temp (2048)	219	40979	M1 median temp (2048)	220	40980	M2 median temp (2049)	224	40984	M2 median temp (2049)	225	40985	M2 median temp (2049)	226	40986	M2 median temp (2049)	227	40987	M2 median temp (2049)	228	40988		
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		Execute Telecommand <p style="text-align: right;"><b>ArmDisableMon</b></p> DC54F170  TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Arm Disable On Board Monitoring, TC(8,4,106,1)																																																																				
		Execute Telecommand <p style="text-align: right;"><b>DisMonitOfParam_Templ</b></p> DCT27170  Command Parameter(s) : <table style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: right;">N_Repetition</td><td>DH041170</td><td>10 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">ParameterId</td><td>DH042170</td><td>2048 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">MonitorId</td><td>DH043170</td><td>216 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">ParameterId</td><td>DH042170</td><td>2048 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">MonitorId</td><td>DH043170</td><td>217 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">ParameterId</td><td>DH042170</td><td>2048 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">MonitorId</td><td>DH043170</td><td>218 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">ParameterId</td><td>DH042170</td><td>2048 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">MonitorId</td><td>DH043170</td><td>219 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">ParameterId</td><td>DH042170</td><td>2048 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">MonitorId</td><td>DH043170</td><td>220 &lt;dec&gt;</td></tr> <tr><td colspan="3"> </td></tr> <tr><td style="text-align: right;">ParameterId</td><td>DH042170</td><td>2049 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">MonitorId</td><td>DH043170</td><td>224 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">ParameterId</td><td>DH042170</td><td>2049 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">MonitorId</td><td>DH043170</td><td>225 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">ParameterId</td><td>DH042170</td><td>2049 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">MonitorId</td><td>DH043170</td><td>226 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">ParameterId</td><td>DH042170</td><td>2049 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">MonitorId</td><td>DH043170</td><td>227 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">ParameterId</td><td>DH042170</td><td>2049 &lt;dec&gt;</td></tr> <tr><td style="text-align: right;">MonitorId</td><td>DH043170</td><td>228 &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 Disable Monitoring of Parameter, TC(12,2)	N_Repetition	DH041170	10 <dec>	ParameterId	DH042170	2048 <dec>	MonitorId	DH043170	216 <dec>	ParameterId	DH042170	2048 <dec>	MonitorId	DH043170	217 <dec>	ParameterId	DH042170	2048 <dec>	MonitorId	DH043170	218 <dec>	ParameterId	DH042170	2048 <dec>	MonitorId	DH043170	219 <dec>	ParameterId	DH042170	2048 <dec>	MonitorId	DH043170	220 <dec>				ParameterId	DH042170	2049 <dec>	MonitorId	DH043170	224 <dec>	ParameterId	DH042170	2049 <dec>	MonitorId	DH043170	225 <dec>	ParameterId	DH042170	2049 <dec>	MonitorId	DH043170	226 <dec>	ParameterId	DH042170	2049 <dec>	MonitorId	DH043170	227 <dec>	ParameterId	DH042170	2049 <dec>	MonitorId	DH043170	228 <dec>		
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1.4		Report Monitoring List to check the decontamination entries		□																																																																		
		Execute Telecommand <p style="text-align: right;"><b>ReportMonitList</b></p> DC51F170  TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : TEMPLATE Report current monitoring list, TC(12,8) no appl. data																																																																				
2		Stop decontamination		Next Step: 3																																																																		

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2.1		Acquire the status of the function		<input type="checkbox"/>
		Verify Decontamination Heating Function Status DhSts DEG17170	= Running	AND=ZAZ9J999
2.2		Send TC(8,2,113) to stop the function		<input type="checkbox"/>
		<b>Stop Decontamination Heating telecommand is used for switching off the function.</b>		
		Execute Telecommand  TC Control Flags :  Subsch. ID : 10 Det. descr. : Stop Decontamination Heating TC(8,2,113)	StopDecontHeat  DC14M170  GBM IL DSE --Y -- --	
2.3		Verify that the function has been stopped		<input type="checkbox"/>
		Verify Decontamination Heating Function Status DhSts DEG17170	= Stopped	AND=ZAZ9J999
3		Verify all HCS involved in the decontamination are OFF		Next Step: 4
		<b>Verify all decontamination lines are switch OFF i.e. The HCS1 OFF associated to HPS-N 1, 2, 4, 6 ,9 and HPS-R 10, 15, 17, 18</b>		
		Verify Telemetry Decon1_G1H1_S WM11A565	= OFF	AND=ZAZ9J999
		Verify Telemetry Decon3_G2H1_S WM21A565	= OFF	AND=ZAZ9J999
		Verify Telemetry Decon5_G4H1_S WM31A565	= OFF	AND=ZAZ9J999
		Verify Telemetry Decon7_G6H1_S WM41A565	= OFF	AND=ZAZ9J999
		Verify Telemetry Decon8_G9H1_S WM51G565	= OFF	AND=ZAZ9J999
		Verify Telemetry Decon2_G10H1_S WM61A565	= OFF	AND=ZAZ9J999
		Verify Telemetry Decon6_G15H1_S WM81G565	= OFF	AND=ZAZ9J999

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		Verify Telemetry Decon4_G17H1_s WM91G565	= OFF	AND=ZAZ9J999
		Verify Telemetry Decon9_G18H1_s WMA1A565	= OFF	AND=ZAZ9J999
		<b>WARNING: in case of a heater failure, i.e. any HCS remains ON after stopping the decontamination, a recovery action shall be taken calling the contingency procedure H_CRP_SYS_DECR (Decontamination Heating failure recovery)</b>		
4		Switch OFF Redundant HPS		Next Step: 5
		Redundant heater line used for M1 is: M1 heater line 4 (HPS 17 HCS 1 R) * M1 heater line 6 (HPS 15 HCS 1 R) *  Redundant heater line used for M2 is: M2 heater line 2 HPS 10 HCS 1 R		
		* Assuming that only 3 lines on M1 (lines 4, 6 and 7) were used for decontamination.		
		Execute Telecommand PcdSwOffHps17  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off HPS 17	DCD43170	
		Verify Telemetry GRP17_HPS_STS WM92H565	= OFF	AND=ZAZ9J999
		Execute Telecommand PcdSwOffHps15  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off HPS 15	DCD41170	
		Verify Telemetry GRP15_HPS_STS WM82H565	= OFF	AND=ZAZ9J999
		Execute Telecommand PcdSwOffHps10  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off HPS 10	DCD36170	
		Verify Telemetry GRP10_HPS_STS WM62G565	= OFF	AND=ZAZ9J999

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5		<i>Disable Disable TCS Diag packet?</i>		Next Step: no 7 yes 6
		<b>If the TCS Diagnostic packet is not anymore needed, disable it.</b>		
6		<i>Disable TCS Diagnostic packet</i>		Next Step: 7
		<b>Call procedure "Enable or disable the generation of an housekeeping or diagnostic packet" H_FCP_DHS_3033</b>  <b>Disable the TCS Diagnostic packet: TCS -&gt; subtype=26, packet-ID=100</b>		
		Execute Procedure: <b>H_FCP_DHS_3033</b> Enable or disable the generation of an housekeeping or diagnostic packet		
7		<i>Monitor cold-down phase</i>		Next Step: 8
		<b>Monitor the M1 &amp; M2 thermistors during the following days and check that the temperature evolution after stopping the decontamination is as predicted by the thermal analysis.</b>		
7.1		<i>Verify M1 thermistors</i>		□
		Verify on telescope; M1 THA ; T21-5 (A) <b>PT1000_T331                      KD253302</b>		AND=ZAZ9J999
		Verify on telescope; M1 THA' ; T22-5 (A) <b>PT1000_T333                      KD254302</b>		AND=ZAZ9J999
		Verify on telescope; M1 THC ; T23-5 (A) <b>PT1000_T335                      KD255302</b>		AND=ZAZ9J999
		Verify on telescope; M1 THC' ; T24-5 (A) <b>PT1000_T337                      KD256302</b>		AND=ZAZ9J999
		Verify on telescope; M1 THA'' ; T16-5 (B) <b>PT1000_T332                      KD248303</b>		AND=ZAZ9J999
		Verify on telescope; M1 THB ; T17-5 (B) <b>PT1000_T334                      KD249303</b>		AND=ZAZ9J999
		Verify on telescope; M1 THB' ; T18-5 (B) <b>PT1000_T336                      KD250303</b>		AND=ZAZ9J999



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify on telescope; M1 THB'' ; T19-5 (B) PT1000_T338                      KD251303		AND=ZAZ9J999
		Verify on telescope; M1 THC'' ; T20-5 (B) PT1000_T340                      KD252303		AND=ZAZ9J999
7.2		Verify M2 thermistors		<input type="checkbox"/>
		Verify on telescope; M2 THX ; T25-5 (A) PT1000_T339                      KD257302		AND=ZAZ9J999
		Verify on telescope; M2 THY ; T26-5 (A) PT1000_T341                      KD258302		AND=ZAZ9J999
		Verify on telescope; M2 THZ ; T30-5 (B) PT1000_T342                      KD262303		AND=ZAZ9J999
8		Set CCU acquisition period to nominal mode (512 sec)?		Next Step: yes 9 no END
9		Come back to nominal CCU monitoring		Next Step: END
		<b>Execute Procedure H_FCP_CCU_ACQP and select the nominal monitoring mode.</b>		
		Execute Procedure: H_FCP_CCU_ACQP CCU acquisition period update		
<b>End of Procedure</b>				