FCCT parameter update
File: H_CRP_DHS_FCCT.xls
Author: S. Manganelli

Procedure Summary

Objectives

This procedure should be used to modify FCCT parameter values. It takes into account also the possibility of having the need to disable and later on re-enable corresponding EAT and MOT entries.

Summary of Constraints

Event_Action, Monitoring and FDIR function must be running

Spacecraft Configuration

Start of Procedure

Type Pre-condition Here

End of Procedure

Type Post-condition Here

Reference File(s)

Input Command Sequences

Output Command Sequences

HRDFCCTA
HRDFCCTB
HRDFCCTD
HRDFCCTE
HRDFCCTF
HRDFCCTH

Referenced Displays

ANDs **GRDs** **SLDs**
ZAZAI999

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
28/11/08		1	Created	cmevi-hp	
12/01/09	2	2	Updated following OBSW 3_8	S. Manganelli	
02/03/09		3	Comment added at step 8	cmevi-hp	
02/03/09	2.1	4	Comment updated at step 8	cmevi-hp	
15/03/09	2.2	5	Fixed MOIS FP bug	S. Manganelli	
07/04/09	2.3	6	Included the TC for updating integer type parameters (following TASF comments)	S. Manganelli	

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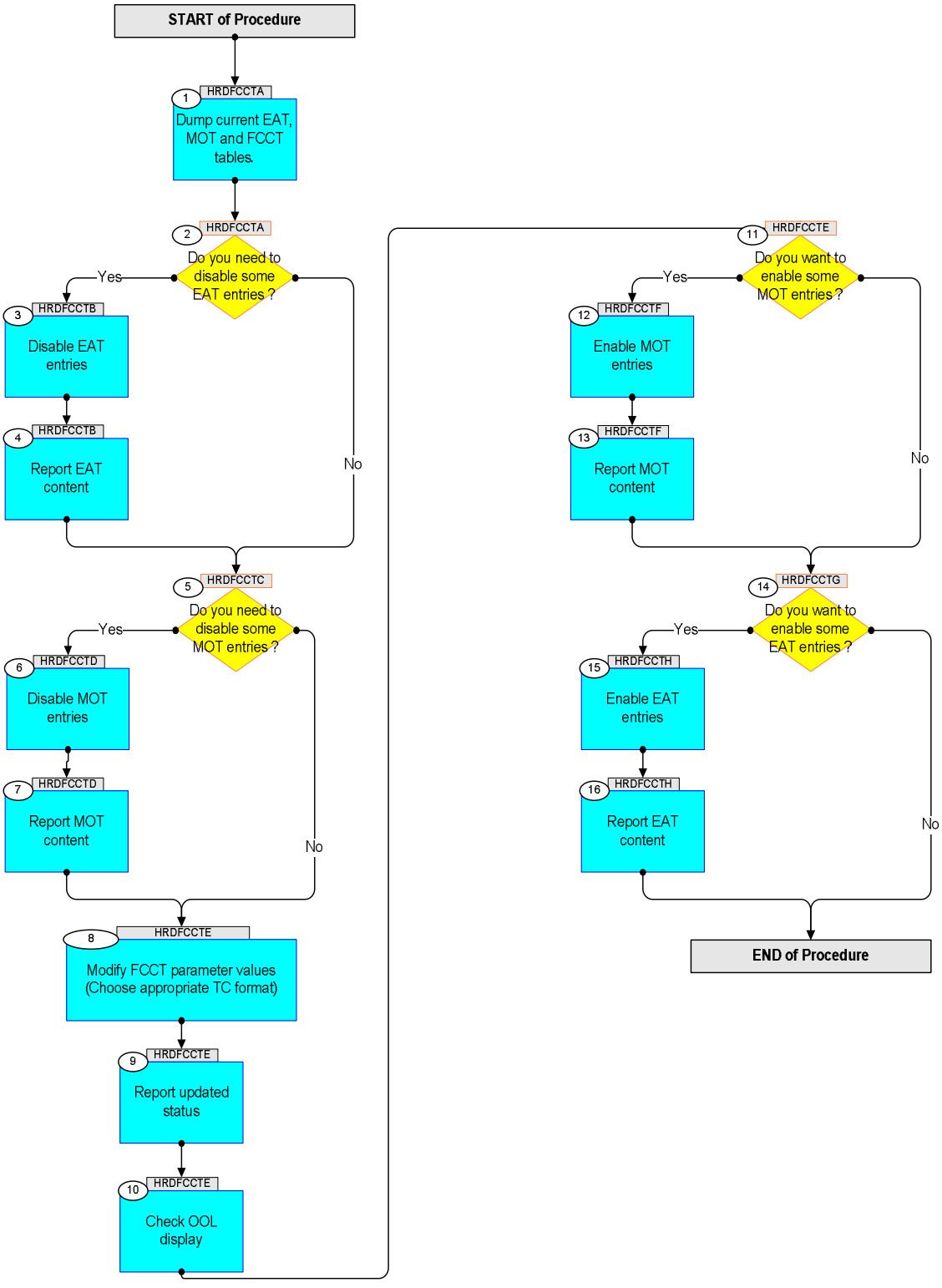
Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Beginning of Procedure			
	HRDFCCTA	*TC Seq. Name :* HRDFCCTA (FCCT parameter updat) *TimeTag Type:* *Sub Schedule ID:*			
1		Dump current EAT, MOT and FCCT tables.		Next Step: 2	
		Verify Telemetry **EaSts** **DEG19170**	**= Running**	AND=ZAZAI999	
		Verify Telemetry **MonitSts** **DEH23170**	**= Running**	AND=ZAZAI999	
		Verify Telemetry **FdirSts** **DEG23170**	**= Running**	AND=ZAZAI999	
		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**	**TC**	
		Execute Telecommand **ReportMonitList** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 10* Det. descr. : TEMPLATE Report current monitoring list, TC(12,8) no appl. data	**DC51F170**	**TC**	
		Execute Telecommand **ReportFdirManagSts** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 10* Det. descr. : Report Fdir Management Status, TC(8,5,116)	**DCN02170**	**TC**	
		Perform the following checks: - current EAT settings using the OEAD display - current MOT settings using the OPMD display - current FCCT settings using TBD ESOC tool (at the moment the VPD entries as seen from TMPH raw packets should be used)			
2		Do you need to disable some EAT entries ? type: [If]		Next Step: Yes 3 No 5	
		End of Sequence			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	HRDFCCTB	*TC Seq. Name :* HRDFCCTB (Disable EAT entries) *TimeTag Type:* N *Sub Schedule ID:* *Formal Parameter List :* APID_for_EAT_TC TC_APID= EventId EVENTID= =			
3		Disable EAT entries		Next Step: 4	
		The sequence must be loaded on the Manual Stack for each Event_Id the user wants to disable because is not possible to set the group repeater as FORMAL parameter of the sequence.			
		Execute Telecommand **DisableActions** **DCT85170** *Command Parameter(s) :* **N_Repetition DH041170** **1 <dec>** (Def) **APID_for_EAT_TC DH236170** **TC_APID** **EventId DH146170** **EVENTID** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 10* Det. descr. : TEMPLATE Disable Actions TC(19,5)		**TC**	
4		Report EAT content		Next Step: 5	
		Execute Telecommand **ReptEvtActTable** **DCT86170** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 10* Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)		**TC**	
		Check updated EAT settings using OEAD display.			
		End of Sequence			
	HRDFCCTC	*TC Seq. Name :* HRDFCCTC (Dummy sequence) *TimeTag Type:* *Sub Schedule ID:* □			
5		Do you need to disable some MOT entries ? type: [If]		Next Step: Yes 6 No 8	
		Before changing the value for FCCT parameters the user should disable the related entries in the Monitoring table if not already disabled.			
		End of Sequence			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	HRDFCCTD	*TC Seq. Name :* HRDFCCTD (Disable MOT entries) *TimeTag Type:* N *Sub Schedule ID:*			
6		Disable MOT entries		Next Step: 7	
		The sequence must be loaded on the Manual Stack for each Monitoring_Id the user wants to disable because is not possible to set the group repeater as FORMAL parameter of the sequence.			
		Execute Telecommand **ArmDisableMon** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 10* Det. descr. : Arm Disable On Board Monitoring, TC(8,4,106,1)	**DC54F170**	**TC**	
		Execute Telecommand **DisMonitOfParam_Templ** *Command Parameter(s) :* **N_Repetition** **DH041170** **1 <dec>** (Def) **ParameterId** **DH042170** **PARAM_ID** **MonitorId** **DH043170** **MONIT_ID** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 10* Det. descr. : TEMPLATE Disable Monitoring of Parameter, TC(12,2)	**DCT27170**	**TC**	
7		Report MOT content		Next Step: 8	
		Execute Telecommand **ReportMonitList** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 10* Det. descr. : Report current monitoring list, TC(12,8), no appl. data	**DC20L170**	**TC**	
		Check updated MOT settings using OPMD display.			
		End of Sequence			
	HRDFCCTE	*TC Seq. Name :* HRDFCCTE (Modify FCCT paramete) *TimeTag Type:* N *Sub Schedule ID:*			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
8		Modify FCCT parameter values (Choose appropriate TC format)		Next Step: 9	
8.1		Modify FCCT parameter values (integer parameters)			
		The following command must be loaded manually to properly specify the number of parameters the user wants to modify for the specific FCCT entry. The command can modify up to 6 parameters (all) for only one FCCT entry. The index of the FCCT entry must be chosen matching its calibrated value with the Check_ID read from TN_151.			
		Commands containing also default EEPROM content for the FCCT entries with EDITABLE parameters can be found in procedure H_FCP_DHS_DEFFC if needed.			
		Execute Telecommand **ModifCrCorrCheckParam** *Command Parameter(s) :* **CrCorrCheckId DH131170** **N_Repetition DH041170** **CrCorrParamId DH132170** **CCorrParValUInt DH133170** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 10* Det. descr. : TEMPLATE Modify Cross-Correlated Check Parameters (8,4,116,17) This Telecommand will not be included in the export	**DCT68170** **Check ID in TN 151** **1 <dec>** (Def) **Par index (1 - 6)** **Par value**	**TC**	
8.2		Modify FCCT parameter values (Floating point parameters)			
		The following command must be loaded manually to properly specify the number of parameters the user wants to modify for the specific FCCT entry. The command can modify up to 6 parameters (all) for only one FCCT entry. The index of the FCCT entry must be chosen matching its calibrated value with the Check_ID read from TN_151.			
		Commands containing also default EEPROM content for the FCCT entries with EDITABLE parameters can be found in procedure H_FCP_DHS_DEFFC if needed.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand **ModCrCorrCheckParValFlt** *Command Parameter(s) :* **CrCorrCheckId XH067992** **N_Repetition XH068992** **CrCorrParamId XH069992** **CCorrParValFlt XH071992** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 10* Det. descr. : Modify Cross-Correlated Check float Parameters (8,4,116,17) This Telecommand will not be included in the export	**XC004992** **Check ID in TN 151** **1 <dec>** (Def) **Par index (1 - 6)** **Par value**	**TC**	
9		Report updated status		Next Step: 10	
		Execute Telecommand **ReportFdirManagSts** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 10* Det. descr. : Report Fdir Management Status, TC(8,5,116)	**DCN02170**	**TC**	
		Check new FCCT settings using the dedicated MIMIC displays			
10		Check OOL display		Next Step: 11	
11		Do you want to enable some MOT entries ? type: [If]		Next Step: Yes 12 No 14	
		End of Sequence			
	HRDFCCTF	*TC Seq. Name :* HRDFCCTF (Enable MOT entries) *TimeTag Type: N* *Sub Schedule ID:* *Formal Parameter List :* ParameterId PARAM_ID= MonitorId MONIT_ID= =			
12		Enable MOT entries		Next Step: 13	
		The sequence must be loaded on the Manual Stack for each Monitoring_Id the user wants to enable because is not possible to set the group repeater as FORMAL parameter of the sequence.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand **EnabMonitOfParam_Templ** *Command Parameter(s) :* **N_Repetition DH041170** **ParameterId DH042170** **MonitorId DH043170** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 10* Det. descr. : TEMPLATE Enable Monitoring of Parameter, TC(12,1)	**DCT26170** **1 <dec>** (Def) **PARAM_ID** **MONIT_ID**	**TC**	
13		Report MOT content		Next Step: 14	
		Execute Telecommand **ReportMonitList** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 10* Det. descr. : Report current monitoring list, TC(12,8), no appl. data	**DC20L170**	**TC**	
		Check updated MOT settings using OPMD display.			
		End of Sequence			
	HRDFCCTG	*TC Seq. Name :*HRDFCCTG (Dummy sequence) *TimeTag Type:* *Sub Schedule ID:* □			
14		Do you want to enable some EAT entries ? type: [If]		Next Step: Yes 15 No END	
		End of Sequence			
	HRDFCCTH	*TC Seq. Name :*HRDFCCTH (Enable EAT entries) *TimeTag Type: N* *Sub Schedule ID:* *Formal Parameter List :* APID_for_EAT_TC TC_APID= EventId EVENTID= =			
15		Enable EAT entries		Next Step: 16	
		The sequence must be loaded on the Manual Stack for each Event_Id the user wants to enable because is not possible to set the group repeater as FORMAL parameter of the sequence.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand **EnableActions** *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 Enable Actions TC(19,4)	**DCT84170** **1 <dec>** (Def) **TC_APID** **EVENTID**	**TC**	
16		Report EAT content		Next Step: END	
		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**	**TC**	
		Check updated EAT settings using OEAD display.			
		End of Sequence			
		End of Procedure			

Check ID (EngValue)	Name	Param1	Param2	Param3	Param4	Param5	Param6	Output Flag	NOTE
ChkId_17	FCCT_XPND1_RX_Power	XPND1 RX FCL current Min = 0	XPND1 RX FCL current Max = 0,38	XPND1 RX supply voltage Min (Volt)= 4,5 (*)	XPND1 RX supply voltage Max (Volt)= 5,5 (*)	Not Used	Not Used	XPND1 RX Power: DID_ASW_CCC_RES_5:6	XPND1 RX FCL current <>limits AND XPND1 RX supply voltage <>limit
ChkId_18	FCCT_XPND2_RX_Power	XPND2 RX FCL current Min = 0	XPND2 RX FCL current Max = 0,38	XPND2 RX supply voltage Min (Volt)= 4,5 (*)	XPND2 RX supply voltage Max (Volt)= 5,5 (*)	Not Used	Not Used	XPND2 RX Power: DID_ASW_CCC_RES_5:7	XPND2 RX FCL current <>limits AND XPND2 RX supply voltage <>limit
ChkId_20	FCCT_XPND2_HPS1_HCS2	FDIR LOW_NOP [°C] = -20	FDIR HIGH_NOP [°C] = 60	time-out [sec]= 0	Cold Start Temp [°C] = -30	FDIR LOW_OP [°C] = -14	FDIR HIGH_OP [°C] = 54	XPND2 TCS Failure HPS1_HCS2 DID_ASW_CCC_RES_2:14	
ChkId_21	FCCT_FCVA1B_HPS1_HCS3	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 69	time-out [sec]= 450	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] =69	FCV A1B TCS Failure HPS1_HCS23 DID_ASW_CCC_RES_2:13	
ChkId_22	FCCT_FCVC2B_HPS1_HCS4	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 69	time-out [sec]= 510	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 69	FCV C2B TCS Failure HPS1_HCS4 DID_ASW_CCC_RES_2:12	Monitored by MOT entry with Id = 21
ChkId_23	FCCT_RCS pipe2_HPS1_HCS5	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C]= 54	time-out [sec]= 960	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 54	RCS piping #2 TCS Failure HPS1_HCS5 DID_ASW_CCC_RES_2:11	
ChkId_24	FCCT_XPND1_HPS1_HCS6	FDIR LOW_NOP [°C] = -20	FDIR HIGH_NOP [°C] = 60	time-out [sec]= 0	Cold Start Temp [°C] = -30	FDIR LOW_OP [°C] = -14	FDIR HIGH_OP [°C] = 54	XPND1 TCS Failure HPS1_HCS6 DID_ASW_CCC_RES_2:10	
ChkId_26	FCCT_FCVC1B_HPS2_HCS2	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 69	time-out [sec]= 750	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 69	FCV C1B TCS Failure HPS2_HCS2 DID_ASW_CCC_RES_2:6	
ChkId_27	FCCT_FCVA2B_HPS2_HCS3	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 69	time-out [sec]= 5700	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 69	FCV A2B TCS Failure HPS2_HCS3 DID_ASW_CCC_RES_2:5	Monitored by MOT entry with Id = 27
ChkId_28	FCCT_FCVC4B_HPS2_HCS4	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 69	time-out [sec]= 1260	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 69	FCV C4B TCS Failure HPS2_HCS4 DID_ASW_CCC_RES_2:4	
ChkId_29	FCCT_DPU-SPU_HPS2_HCS5	FDIR LOW_NOP [°C] = -30	FDIR HIGH_NOP [°C] = 60	time-out [sec]= 1440	Cold Start Temp [°C] = -30	FDIR LOW_OP [°C] = -19	FDIR HIGH_OP [°C] = 49	FPDPU/FPSPU TCS Failure HPS2_HCS5 DID_ASW_CCC_RES_2:3	
ChkId_31	FCCT_FPBOLC_HPS3_HCS1	FDIR LOW_NOP [°C] = -30	FDIR HIGH_NOP [°C] = 60	time-out [sec]= 600	Cold Start Temp [°C] = -30	FDIR LOW_OP [°C] = -19	FDIR HIGH_OP [°C] = 49	FPBOLC TCS Failure HPS3_HCS1 DID_ASW_CCC_RES_3:15	
ChkId_32	FCCT_CRS_1_HPS3_HCS2	FDIR LOW_NOP [°C] = -10	FDIR HIGH_NOP [°C] = 60	time-out [sec]= 0	Cold Start Temp [°C] =-10	FDIR LOW_OP [°C] = -4	FDIR HIGH_OP [°C] = 54	CRS-1 TCS Failure HPS3_HCS2 Loop 07 DID_ASW_CCC_RES_3:14	Monitored by MOT entry with Id = 33
ChkId_33	FCCT_FPDECMEC_HPS3_HCS3	FDIR LOW_NOP [°C] = -30	FDIR HIGH_NOP [°C] = 60	time-out [sec]= 1260	Cold Start Temp [°C] = -30	FDIR LOW_OP [°C] = -19	FDIR HIGH_OP [°C] = 49	FPDECMEC TCS Failure HPS3_HCS3 DID_ASW_CCC_RES_3:13	

Check ID (EngValue)	Name	Param1	Param2	Param3	Param4	Param5	Param6	Output Flag	NOTE
ChkId_34	FCCT_RCS pipe1_HPS3_HCS4	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 54	time-out [sec]= 600	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 54	RCS piping #1 TCS Failure HPS3_HCS4 DID_ASW_CCC_RES_3:12	
ChkId_35	FCCT_CCU_HPS3_HCS5	FDIR LOW_NOP [°C] = -35	FDIR HIGH_NOP [°C] = 60	time-out [sec]= 2700	Cold Start Temp [°C] = -30	FDIR LOW_OP [°C] = -19	FDIR HIGH_OP [°C] = 49	CCU TCS Failure HPS3_HCS5 DID_ASW_CCC_RES_3:11	
ChkId_36	FCCT_GYRO_HPS3_HCS6	FDIR LOW_NOP [°C] = -30	FDIR HIGH_NOP [°C] = 75	time-out [sec]= 0	Cold Start Temp [°C] = -30	FDIR LOW_OP [°C] = -24	FDIR HIGH_OP [°C] = 69	GYRO TCS Failure HPS3_HCS6 DID_ASW_CCC_RES_3:10	
ChkId_38	FCCT_FHWOV_HPS4_HCS2	FDIR LOW_NOP [°C] = -25	FDIR HIGH_NOP [°C] = 50	time-out [sec]= 38700	Cold Start Temp [°C] = -25	FDIR LOW_OP [°C] = -2	FDIR HIGH_OP [°C] = 14	FHWOV TCS Failure HPS4_HCS2 DID_ASW_CCC_RES_3:6	
ChkId_39	FCCT_RCS pipe6_HPS4_HCS3	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 54	time-out [sec]= 1350	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 54	RCS piping # 6 TCS Failure HPS4_HCS3 DID_ASW_CCC_RES_3:5	
ChkId_40	FCCT_FCVA1A_HPS4_HCS4	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C]= 69	time-out [sec]= 420	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 69	FCV A1A&A1B TCS Failure HPS4_HCS4 DID_ASW_CCC_RES_3:4	Monitored by MOT entry with Id = 39
								FCV C2A&C2B TCS Failure	

Status : Version 6 - Unchanged
Last Checkin: 07/04/09

ChkId_40	FCCT_FCVA1A_HPS4_HCS4	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C]= 69	time-out [sec]= 420	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 69	HPS4_HCS4 DID_ASW_CCC_RES_3:4	Monitored by MOT entry with Id = 39
ChkId_41	FCCT_FCV C2A_HPS4_HCS5	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 69	time-out [sec]= 420	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 69	FCV C2A&C2B TCS Failure HPS4_HCS5 DID_ASW_CCC_RES_3:3	
ChkId_42	FCCT_RCS pipe7_HPS4_HCS6	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 54	time-out [sec]= 720	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 54	RCS piping # 7 TCS Failure HPS4_HCS6 DID_ASW_CCC_RES_3:2	
ChkId_43	FCCT_CRS_2_HPS5_HCS1	FDIR LOW_NOP [°C] = -10	FDIR HIGH_NOP [°C] = 60	time-out [sec]= 0	Cold Start Temp [°C] = -10	FDIR LOW_OP [°C] = -4	FDIR HIGH_OP [°C] = 54	CRS-2 TCS Failure HPS5_HCS1 DID_ASW_CCC_RES_4:15	
ChkId_44	FCCT_FHHRH_HPS5_HCS2	FDIR LOW_NOP [°C] = -25	FDIR HIGH_NOP [°C] = 55	time-out [sec]= 600	Cold Start Temp [°C] = -25	FDIR LOW_OP [°C] = -14	FDIR HIGH_OP [°C] = 44	FHHRH TCS Failure HPS5_HCS2 DID_ASW_CCC_RES_4:14	
ChkId_45	FCCT_FHWEVICU_HPS5_HCS3	FDIR LOW_NOP [°C] = -25	FDIR HIGH_NOP [°C] = 55	time-out [sec]= 3600	Cold Start Temp [°C] = -25	FDIR LOW_OP [°C] = -4	FDIR HIGH_OP [°C] = 34	FHWEV/FHICU TCS Failure HPS5_HCS3 DID_ASW_CCC_RES_4:13	Monitored by MOT entry with Id = 45
ChkId_46	FCCT_FCVC3B_HPS5_HCS4	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 69	time-out [sec]= 720	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 69	FCV C3B TCS Failure HPS5_HCS4 DID_ASW_CCC_RES_4:12	
ChkId_47	FCCT_RCS pipe8_HPS5_HCS5	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 54	time-out [sec]= 720	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 54	RCS piping #8 TCS Failure HPS5_HCS5 DID_ASW_CCC_RES_4:11	
ChkId_48	FCCT_PTLFLV12_HPS5_HCS6	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 54	time-out [sec]= 2100	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 54	PT/LF/LV1/LV2 TCS Failure HPS5_HCS6 DID_ASW_CCC_RES_4:10	
ChkId_50	FCCT_RWL4_HPS6_HCS2	FDIR LOW_NOP [°C] = -10	FDIR HIGH_NOP [°C] = 65	time-out [sec]= 0	Cold Start Temp [°C] = -15	FDIR LOW_OP [°C] = -4	FDIR HIGH_OP [°C] = 59	RWL4 TCS Failure HPS6_HCS2 DID_ASW_CCC_RES_4:6	

Check ID (EngValue)	Name	Param1	Param2	Param3	Param4	Param5	Param6	Output Flag	NOTE
ChkId_51	FCCT_RWL1_HPS6_HCS3	FDIR LOW_NOP [°C] = -10	FDIR HIGH_NOP [°C] = 65	time-out [sec]= 0	Cold Start Temp [°C] = -15	FDIR LOW_OP [°C] = -4	FDIR HIGH_OP [°C] = 59	RWL1 TCS Failure HPS6_HCS3 DID_ASW_CCC_RES_4:5	
ChkId_52	FCCT_RWL3_HPS6_HCS4	FDIR LOW_NOP [°C] = -10	FDIR HIGH_NOP [°C] = 65	time-out [sec]= 0	Cold Start Temp [°C] = -15	FDIR LOW_OP [°C] = -4	FDIR HIGH_OP [°C] = 59	RWL3 TCS Failure HPS6_HCS4 DID_ASW_CCC_RES_4:4	Monitored by MOT entry with Id = 51
ChkId_53	FCCT_FHIFV_HPS6_HCS5	FDIR LOW_NOP [°C] = -25	FDIR HIGH_NOP [°C] = 55	time-out [sec]= 2100	Cold Start Temp [°C] = -25	FDIR LOW_OP [°C] = -14	FDIR HIGH_OP [°C] = 44	FHIFV TCS Failure HPS6_HCS5 DID_ASW_CCC_RES_4:3	
ChkId_54	FCCT_RWL2_HPS6_HCS6	FDIR LOW_NOP [°C] = -10	FDIR HIGH_NOP [°C] = 65	time-out [sec]= 0	Cold Start Temp [°C] = -15	FDIR LOW_OP [°C] = -4	FDIR HIGH_OP [°C] = 59	RWL2 TCS Failure HPS6_HCS6 DID_ASW_CCC_RES_4:2	
ChkId_55	FCCT_STRs_HPS7_HCS1	FDIR LOW_NOP [°C] = -30	FDIR HIGH_NOP [°C] = 60	time-out [sec]= 0	Cold Start Temp [°C] = -30	FDIR LOW_OP [°C] = -24	FDIR HIGH_OP [°C] = 54	STR's TCS Failure HPS7_HCS1 DID_ASW_CCC_RES_6:15	
ChkId_56	FCCT_BATTERY_HPS7_HCS2	FDIR LOW_NOP [°C] = -10	FDIR HIGH_NOP [°C] = 45	time-out [sec]= 0	Cold Start Temp [°C] = 0	FDIR LOW_OP [°C] = -4	FDIR HIGH_OP [°C] = 39	BATTERY TCS Failure HPS7_HCS2 DID_ASW_CCC_RES_6:14	
ChkId_57	FCCT_FHWOH_HPS7_HCS3	FDIR LOW_NOP [°C] = -25	FDIR HIGH_NOP [°C] = 50	time-out [sec]= 8700	Cold Start Temp [°C] = -25	FDIR LOW_OP [°C] = -3	FDIR HIGH_OP [°C] = 13	FHWOH TCS Failure HPS7_HCS3 DID_ASW_CCC_RES_6:13	Monitored by MOT entry with Id = 57
ChkId_58	FCCT_FHWEH_HPS7_HCS4	FDIR LOW_NOP [°C] = -25	FDIR HIGH_NOP [°C] = 55	time-out [sec]= 780	Cold Start Temp [°C] = -25	FDIR LOW_OP [°C] = -4	FDIR HIGH_OP [°C] = 34	FHWEH TCS Failure HPS7_HCS4 DID_ASW_CCC_RES_6:12	
ChkId_59	FCCT_FCV C1A_HPS7_HCS5	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 69	time-out [sec]= 480	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 69	FCV C1A&C1BTCS Failure HPS7_HCS5 DID_ASW_CCC_RES_6:11	
ChkId_60	FCCT_FCV A2A_HPS7_HCS6	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 69	time-out [sec]= 5700	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 69	FCV A2A&A2B TCS Failure HPS7_HCS6 DID_ASW_CCC_RES_6:10	
ChkId_61	FCCT_FHHRV_HPS8_HCS1	FDIR LOW_NOP [°C] = -25	FDIR HIGH_NOP [°C] = 55	time-out [sec]= 1200	Cold Start Temp [°C] = -25	FDIR LOW_OP [°C] = -14	FDIR HIGH_OP [°C] = 44	FHHRV TCS Failure HPS8_HCS1 DID_ASW_CCC_RES_6:7	
ChkId_62	FCCT_FCV C3A_HPS8_HCS2	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 69	time-out [sec]= 540	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 69	FCV C3A&C3B TCS Failure HPS8_HCS2 DID_ASW_CCC_RES_6:6	
		FDIR LOW_NOP [°C] =	FDIR HIGH_NOP [°C]	time-out [sec]=	Cold Start Temp [°C] =	FDIR LOW_OP [°C] =	FDIR HIGH_OP [°C] =	RCS piping #3 TCS Failure	Monitored by MOT

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ChkId_62	FCCT_FCV C3A_HPS8_HCS2	8	= 69	540	-60	8	69	HPS8_HCS2 DID_ASW_CCC_RES_6:6	Monitored by MOT entry with Id = 63
ChkId_63	FCCT_RCS pipe3_HPS8_HCS3	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 54	time-out [sec]= 800	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 54	RCS piping #3 TCS Failure HPS8_HCS3 DID_ASW_CCC_RES_6:5	
ChkId_64	FCCT_STR2_PRBF_HPS8_HCS4	FDIR LOW_NOP [°C] = -30	FDIR HIGH_NOP [°C] = 60	time-out [sec]= 0	Cold Start Temp [°C] = -30	FDIR LOW_OP [°C] = -24	FDIR HIGH_OP [°C] = 54	STR 2 Primary Baffle TCS Failure HPS8_HCS4 DID_ASW_CCC_RES_6:4	
ChkId_65	FCCT_RCS pipe5_HPS8_HCS5	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 54	time-out [sec]= 1450	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 54	RCS piping #5TCS Failure HPS8_HCS5 DID_ASW_CCC_RES_6:3	

Check ID (EngValue)	Name	Param1	Param2	Param3	Param4	Param5	Param6	Output Flag	NOTE
ChkId_66	FCCT_FHLCU_HPS8_HCS6	FDIR LOW_NOP [°C] = -25	FDIR HIGH_NOP [°C] = 55	time-out [sec]= 720	Cold Start Temp [°C] = -25	FDIR LOW_OP [°C] = -14	FDIR HIGH_OP [°C] = 44	FHLCU TCS Failure HPS8_HCS6 DID_ASW_CCC_RES_6:2	
ChkId_68	FCCT_Tank-Y_HPS9_HCS2	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 49	time-out [sec]= 9180	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 49	Tank -Y TCS Failure HPS9_HCS2 DID_ASW_CCC_RES_5:14	Monitored by MOT entry with Id = 69
ChkId_69	FCCT_FCV C4A_HPS9_HCS3	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 69	time-out [sec]= 750	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 69	FCV C4A&C4B TCS Failure HPS9_HCS3 DID_ASW_CCC_RES_5:13	
ChkId_70	FCCT_FHLSU_HPS9_HCS4	FDIR LOW_NOP [°C] = -15	FDIR HIGH_NOP [°C] = 55	time-out [sec]= 9600	Cold Start Temp [°C] = -10	FDIR LOW_OP [°C] = 6	FDIR HIGH_OP [°C] = 44	FHLSU TCS Failure HPS9_HCS4 DID_ASW_CCC_RES_5:12	
ChkId_71	FCCT_STR1_PRBF_HPS9_HCS5	FDIR LOW_NOP [°C] = -30	FDIR HIGH_NOP [°C] = 60	time-out [sec]= 0	Cold Start Temp [°C] = -30	FDIR LOW_OP [°C] = -24	FDIR HIGH_OP [°C] = 54	STR_1 Primary Baffle TCS Failure HPS9_HCS5 DID_ASW_CCC_RES_5:11	
ChkId_72	FCCT_Tank+Y_HPS9_HCS6	FDIR LOW_NOP [°C] = 8	FDIR HIGH_NOP [°C] = 49	time-out [sec]= 7980	Cold Start Temp [°C] = -60	FDIR LOW_OP [°C] = 8	FDIR HIGH_OP [°C] = 49	Tank +Y TCS Failure HPS9_HCS6 DID_ASW_CCC_RES_5:10	
ChkId_73	FCCT_Ins_TM_Monitoring	Delta T = 30sec = 30	Not Used	Not Used	Not Used	Not Used	Not Used	DID_ASW_PACS_TM_CNT DID_ASW_SPIRE_TM_CNT DID_ASW_HIFI_TM_CNT DID_ASW_HFI_TM_CNT DID_ASW_SCS_TM_CNT DID_ASW_LFI_TM_CNT	The Delta-T parameter is used by the ASW define a period to update the instrument TM counters. Every delta-T seconds the ASW computes the difference between previous value and current value of instrument TM counters. The difference is then put into the listed Data Pool id and monitored by MOT.

(*) According to XPND User Manual (H-P-4-AEO-MA-2001 issue 5) for the RX (and TX) voltage, a value of physical 5V corresponds to a voltage value read by CDMU equal to 2.5V.

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