



<i>Publication Year</i>	1999
<i>Acceptance in OA</i>	2023-02-10T13:14:59Z
<i>Title</i>	TC/TM DATABASE FOR THE EPIC PN CAMERA SYSTEM (EPCS)
<i>Authors</i>	LA PALOMBARA, NICOLA
<i>Handle</i>	http://hdl.handle.net/20.500.12386/33399

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0001	EnterSafeStandBy	5	5	N/A	N/A	N/A	0	NORMAL	none	

This telecommand is used to perform transition to SAFE STAND-BY mode. In this mode EPDH, EPCE and EPEA memory loading can be performed. EPDH will switch off all the extraheating/HOPS heaters, set CCD temp. to a default value and close the Filter Wheel.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1008	50001	32	0	8	0	none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0002	Enter Idle Mode	5	5	N/A	N/A	N/A	1	NORMAL	none	

This TC is used to perform transition to IDLE mode. In this mode all the configuration commands can be executed (except the EPDH, EPCE and EPEA critical operations as memory loading and testing) and transition to other operating modes can be performed.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1008	50001	32	0	8	1	none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0003	EnterObservation	5	5	N/A	N/A	N/A	2	NORMAL	X5007	Idle mode

This telecommand is used to perform transition to Observation mode. In this mode EPCS will start the CCD readout of the selected quadrants depending on the instrument configuration performed in IDLE mode.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1008	50001	32	0	8	2	none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0005	EnterOffsetNoise	5	5	N/A	N/A	N/A	4	NORMAL	X5007	Idle mode

This TLC is used to perform transition to OFFSET/NOISE COMPUTATION mode. In this mode EPCS will start the computation of the offset or the noise table of all 3 CCDs of the selected quadrants. The CCD area to be used in the computation can be selected. Even HK parameters F1601-2, 1701-2 and 1801-2 can be affected

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1008	50001	32	0	8	4	none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0006	Enter Diagnostic	5	5	N/A	N/A	N/A	5	NORMAL	X5007	Idle mode

This TC is used to perform transition to DIAGNOSTIC mode. In this mode EPCS will start the CCD readout of the selected quadrants, starting from the selected row, by reading n times blocks of 4 rows each. Data of each block will be sent to Ground.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1008	50001	32	0	8	5	none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0007	EnterExtraheatin	5	5	N/A	N/A	N/A	6	NORMAL	X5007	Idle mode

This telecommand is used to perform transition to EXTRAHEATING mode. In this mode the commands used to operate the various EPCH thermal controls will be enabled. Monitoring temperature limits to be used in Extraheating mode will be loaded by parameters. Also HK parameters F1013 & 1017 are affected by this TC

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1008	50001	32	0	8	6	none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0008	EnterInFlightTst	5	5	N/A	N/A	N/A	16	NORMAL	X5007	Idle mode

This telecommand is used to perform transition to IN-FLIGHT TEST mode. EPCS or EPDH In-flight test will be activated depending on the parameter value. EPCS selection will allow to execute all the existing TCs without any on-board filtering or control.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1008	50001	32	0	8	16	none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0009	EnterEPDHBASICSW	5	1	252	N/A	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This telecommand is used to enter the EPDH BSW Maintenance mode. This mode allows to load, dump and calculate checksum only. Furthermore any other EPDH activity will be stopped (including H/K generation).

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0010	ExitEPDHBASICSW	5	2	252	N/A	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This telecommand is used to exit from the EPDH BSW Maintenance mode. EPDH will perform a warm start and it will automatically enter the SAFE STAND-BY mode.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0011	Load EPDH Memory	6	1	N/A	N/A	0	N/A	HAZARDOU	X5008	SafeStandBy mode

This telecommand is used to load part of the EPDH RAM memory area. The parameters are used to specify respectively the start address and data to be loaded. Telecommand will be executed just in Safe Standby mode with EPDH in "Maintenance" mode.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0014	StartPeriodTask	5	3	0	3	N/A	N/A	NORMAL	X5009	InFlightTestMode

This telecommand is used to start the specified periodic task in the EPDH.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0015	StartSporadTask	5	3	1	3	N/A	N/A	NORMAL	X5009	InFlightTestMode

This telecommand is used to start the specified sporadic task in the EPDH

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0016	StopPeriodicTask	5	3	0	4	N/A	N/A	NORMAL	X5009	InFlightTestMode

This telecommand is used to stop the specified periodic task in the EPDH

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0017	Suspend Task	5	5	N/A	N/A	N/A	32	NORMAL	X5009	InFlightTestMode

This telecommand is used to suspend the specified task in the EPDH

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0018	Resume Task	5	5	N/A	N/A	N/A	33	NORMAL	X5009	InFlightTestMode

This telecommand is used to resume the specified task in the EPDH

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0019	LoadSporadicTask	5	3	1	1	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This telecommand is used to load the specified sporadic task of the EPDH in the APT.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0020	LoadPeriodicTask	5	3	0	1	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This telecommand is used to load the specified periodic task of the EPDH in the PPT.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0021	UnloadPeriodTask	5	3	0	2	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This telecommand is used to unload the specified periodic task of the EPDH from the PPT.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0022	UnloadSporadTask	5	3	1	2	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This telecommand is used to unload the specified sporadic task of the EPDH from the APT.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0030	Test Command	13	1	N/A	N/A	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This telecommand is intended to have a confirmation that the link to the application is operational. EPDH will response to the telecommand issuing a Successful Command Acceptance Report (TM 3.2)

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0031	LoadHBRConfigur	5	3	255	128	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This telecommand is used to load in the EPDH the enable/disable status and the processing configuration of each HBR channel. The end-effect verification of this TC is monitored by HK parameters F1022-1025.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0032	LoadHBRBufferSiz	5	3	255	129	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This telecommand is used to load in the EPDH the buffer allocation for each HBR channel used in the scientific processing.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0036	LoadThermMonLim	5	3	255	160	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This telecommand is used to load in the EPDH the safety temperature limits checked by EPDH in normal operating FP thermal control.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0037	ReportHBR Config	5	4	255	128	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This telecommand is used to report, from the EPDH, the parameters loaded with the "Load HBR Channels Configuration" telecommand.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0038	ReportHBRBufSize	5	4	255	129	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This telecommand is used to report, from the EPDH, the parameters loaded with the "Load HBR Buffers Size" telecommand.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0042	ReportTherMonLim	5	4	255	160	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This telecommand is used to report, from the EPDH, the parameters loaded with the "Load Thermal Monitoring Limits" telecommand.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0043	ArmPowerDoorHOP	5	3	255	208	N/A	N/A	NORMAL	X5007	Idle mode

This TC is used by EPDH to arm the switch-on of the relay that allow to apply primary power to the HOP in charge to open the Door.
Power will be automatically removed after the specified time or when "Remove power" telecommand is received.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1049	50001	88	0	8		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0044	FirePowerDoorHOP	5	3	255	209	N/A	N/A	HAZARDOU	X5007	Idle mode

This TC is used by EPDH to fire the switch-on of the relay that allow to apply primary power to the HOP in charge to open the Door.
Power will be automatically removed after the specified time or when "Remove power" telecommand is received. Also HK parameter F1132 must be verified.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1010	50001	35	2	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0045	RemovePW DoorHOP	5	3	255	210	N/A	N/A	NORMAL	X5007	Idle mode

This TC is used by EPDH to switch-off the relay that allow to apply primary power to the HOP in charge to open the Door.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1010	50001	35	2	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0046	ArmPW VentValHOP	5	3	255	224	N/A	N/A	NORMAL	X5007	Idle mode

This TC is used by EPDH to arm the switch-on of the relay that allow to apply primary power to the HOP in charge to open the VenVal.
Power will be automatically removed after the specified time or when the "Remove Power" TLC is received.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1050	50001	89	0	8		none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0047	FirePW VenValHOP	5	3	255	225	N/A	N/A	NORMAL	X5007	Idle mode

This TC is used by EPDH to fire the switch-on of the relay that allow to apply primary PW to the HOP in charge to open the VentValv.
Power will be automatically removed after the specified time or when the "Remove Power" TLC is received.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1011	50001	35	3	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0048	RemPW VentValHOP	5	3	255	226	N/A	N/A	NORMAL	X5007	Idle mode

This TC is used by EPDH to switch-off the relay that allow to apply primary power to the HOP in charge to open the Venting Valve.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1011	50001	35	3	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0049	Apply PW FW	5	3	255	241	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used, by EPDH, to switch-on the relay that allow to apply primary power to the Filter Wheel.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1012	50001	35	4	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0050	Remove PW FW	5	3	255	242	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used, by EPDH, to switch-off the relay that allow to apply primary power to the Filter Wheel.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1012	50001	35	4	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0051	Dump EPDH Memory	6	2	N/A	N/A	0	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to dump some EPDH memory area (RAM+PROM). The parameters are used to specify respectively the start address and the length of the memory area to be dumped. One or more Memory Dump Reports (TM 6.2) will be sent by TM link.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0052	CalcEPDH MemCKS	6	3	N/A	N/A	0	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to calculate checksum of the specified part of EPDH PROM/RAM memory area. The parameters are used to specify respectively the start address and the length of the memory area to be checked.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

EPICS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0055	RepTMPktGenStat	9	1	N/A	N/A	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to trigger the report of the TM packets generation status (TM 9.1).

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0056	EnaGenAllTM Pkts	9	2	N/A	N/A	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to enable the generation of all TM packets.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0057	DisGenAllTM Pkts	9	3	N/A	N/A	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to disable the generation of all TM packets.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0058	EnaGenSpecTMPkts	9	4	N/A	N/A	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to enable the generation of the selected TM packets.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0059	DisGenSpecTMPkts	9	5	N/A	N/A	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to disable the generation of all TM packets.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0060	Enable OBT Synch	10	2	N/A	N/A	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to arm the time synchronization function in the EPDH.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0061	Add Time Code	10	3	N/A	N/A	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to add the received Time Code to the actual EPDH on-board time.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0062	Enable OBT Verif	10	5	N/A	N/A	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to trigger the generation of the Time Verification Report (TM 10.5) including the actual EPDH on-board time.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0063	PresetTimeCount	5	3	255	176	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to load the preset value of the counter used for the automatic generation of the reset pulse to the EPEA during obs. The preset value can range from 1 s to 9 h.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1052	50001	92	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0064	Dump EPCE Memory	6	2	N/A	N/A	80	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to dump some EPCE memory area (RAM+PROM). The parameters are used to specify respectively the start address and the length of the memory area to be dumped. One or more Memory Dump Reports (TM 6.2) will be sent by TM link.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0065	CalcEPCE MemCKS	6	3	N/A	N/A	80	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to calculate checksum of the specified part of EPCE PROM/RAM memory area. The parameters are used to specify respectively the start address and the length of the memory area to be checked. This TC affects even HK parameters F1096-98 and 1476.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1099	50001	152	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0065	CalcEPCE MemCKS	6	3	N/A	N/A	80	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to calculate checksum of the specified part of EPCE PROM/RAM memory area. The parameters are used to specify respectively the start address and the length of the memory area to be checked. This TC affects even HK parameters F1096-98 and 1476.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1099	50012	74	0	16		none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0065	CalcEPCE MemCKS	6	3	N/A	N/A	80	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to calculate checksum of the specified part of EPCE PROM/RAM memory area. The parameters are used to specify respectively the start address and the length of the memory area to be checked. This TC affects even HK parameters F1096-98 and 1476.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1099	50006	74	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0067	DumpEPEA0 Memory	6	2	N/A	N/A	16	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to dump some EPEA Quadrant 0 memory area (RAM + PROM). The parameters are used to specify respectively the start address and the length of the memory area to be dumped. One or more Memory Dump Reports (TM 6.2) will be sent by TM link.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0068	CalcEPEA0 MemCKS	6	3	N/A	N/A	16	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to calculate checksum of the specified part of EPEA Quadrant 0 PROM/RAM memory area. The parameters are used to specify respectively the start address and the length of the memory area to be checked. This TC affects even HK parameters F1508-1510 and 1334.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1511	50002	30	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0069	SendScientTable	5	3	253	150	N/A	N/A	NORMAL	X5013	I/IFT/OBS mode

This TC is used to command the selected EPEA quadrant (only 1) to send the Scientific Table relevant to the selected CCD. Parameters are used to include the complete EPCE command foreseen for this function and last block to be sent. Parameters F0064 & 66 range from 0 to 216 if Offset or Noise Table is selected, from 0 to 3 is Discarded Line Table is selected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0074	EASETWAIT	5	3	253	123	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC sets the number of times a no-operation loop has to be executed in the selected EPEA quadrants between each data transmiss. Parameters are used to include the complete EPCE command foreseen for this function. This TC affects even HK parameters F1637, 1737 and 1837.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1537	50002	64	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0075	EAHBRSDND	5	3	253	137	N/A	N/A	NORMAL	X5009	InFlightTestMode

This TC is used to command the selected EPEA quadrants to send the specified number of scientific events through the HBR I/F Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0076	EAHBRTEPIC	5	3	253	139	N/A	N/A	NORMAL	X5009	InFlightTestMode

This TC is used to command the selected EPEA quadrants to send for a specified number of times a test picture through the HBR I/F.
Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0078	CERESERR	5	3	254	16	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to reset EPCE error counters (ERRCNT, LASTERR, ERRFLAG, ERRA0, ERRA1, ERRA2, ERRA3, WBOOTS, ERR1-ERR15, CMDREJ, WDOGCNT) Parameters are used to include the complete EPCE command foreseen for this function. This TC affects TM parameters F1054-55, F1057-58, F1063-68, F1071, F1073, F1139-62, F1273-87, F1475.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0079	CESETMSG	5	3	254	17	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to set a message in the EPCE HK location CE_MSG. Parameters are used to include the complete EPCE command foreseen for this function

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1092	50001	138	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0079	CESETMSG	5	3	254	17	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to set a message in the EPCE HK location CE_MSG. Parameters are used to include the complete EPCE command foreseen for this function

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1092	50006	60	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0079	CESETMSG	5	3	254	17	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to set a message in the EPCE HK location CE_MSG. Parameters are used to include the complete EPCE command foreseen for this function

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1092	50012	60	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0080	CERESSET	5	3	254	18	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used to perform the CPU reset (cold boot) of the EPCE. Parameters are used to include the complete EPCE command foreseen for this function

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0081	CEWBOOT	5	3	254	19	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used to command the EPCE to perform a warm reset of the CPU (the HK CE_WBOOTS will increment its value). Parameters are used to include the complete EPCE command foreseen for this function

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0082	Load EPCE Memory	6	1	N/A	N/A	80	N/A	HAZARDOU	X5008	SafeStandBy mode

This TC is used to load part of the EPCE RAM memory area. The parameters are used to specify respectively the start address and the data to be loaded. Command will be executed only in Safe Stand-by mode with the EPCE set in Debug mode. This TC affects HK parameters F1108-1110.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0083	CEDEBUG	5	3	254	32	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used either to enter the EPCE in Debug mode or to enter the Debug level if the S/W is compiled with the Debug option. Parameters are used to include the complete EPCE command foreseen for this function. To enter in Debug Mode parameter F0106 must be set to FF and parameters F0157-63 must be set to 1. To enter the Debug level parameter F106 must be set to 0

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1079	50006	58	1	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0083	CEDEBUG	5	3	254	32	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used either to enter the EPCE in Debug mode or to enter the Debug level if the S/W is compiled with the Debug option. Parameters are used to include the complete EPCE command foreseen for this function. To enter in Debug Mode parameter F0106 must be set to FF and parameters F0157-63 must be set to 1. To enter the Debug level parameter F106 must be set to 0

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1079	50012	58	1	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0083	CEDEBUG	5	3	254	32	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used either to enter the EPCE in Debug mode or to enter the Debug level if the S/W is compiled with the Debug option. Parameters are used to include the complete EPCE command foreseen for this function. To enter in Debug Mode parameter F0106 must be set to FF and parameters F0157-63 must be set to 1. To enter the Debug level parameter F106 must be set to 0

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1079	50001	136	1	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0085	CEGOTO	5	3	254	20	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used to perform in the EPCE program a jump to the selected address. Parameters are used to include the complete EPCE command foreseen for this function

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0086	CEBPUT	5	3	254	23	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used to load in the EPCE a 8-bit data at a previously selected (by CEASET TC, MFN F0088) RAM location. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0087	CEWPUT	5	3	254	24	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used to load in the EPCE a 16-bit data at a previously selected (by CEASET TC, MFN F0088) RAM location. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0088	CEASET	5	3	254	22	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used to load in the EPCE register an address that will be used to load/dump data. Parameters are used to include the complete EPCE command foreseen for this function. This TC affects HK parameters F1093-95 and 1163-64.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0089	CEBGET	5	3	254	25	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used to dump from the EPCE a 8-bit data from a previously selected (by CEASET TC, MFN F0088) RAM location. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0090	CEWGET	5	3	254	26	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used to dump from the EPCE a 16-bit data from a previously selected (by CEASET TC, MFN F0088) RAM location. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0091	CEMMODE	5	3	254	27	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used to set the data modify mode of the selected EPCE quadrants for CEBPUT, CEBGET, CEWPUT and CEWGET TCs. Parameters are used to include the complete EPCE command foreseen for this function. PREF F0077 is meaningful only if PREF F0075 is set to 1.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

EPICS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0092	CEQUADSEL	5	3	254	31	N/A	N/A	NORMAL	none	

This TC is used to select the EPEA/EPCH quadrants: each TC addressed to EPEA/EPCH quadrants will be broadcasted to all selec. quadr.
Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0093	CEMSEQ	5	3	254	34	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to program the Master Sequencer in the EPEA electronics. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0094	Load EPEA Memory	6	1	N/A	N/A	96	N/A	HAZARDOU	X5010	SSB / IFT mode

This TC is used to load part of the selected EPEA quadrants RAM memory area. Parameters are used to specify respectively the start address and data to be loaded. Command will be executed only in Safe Stand-by mode with the EPEA set in Debug mode. It affects HK parameters F1324-26, 1369-1371. 1414-1416 and 1459-61.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0095	EAWBOOT	5	3	253	112	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used to command the selected EPEA quadrants to perform a warm reset of the CPU. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0096	EAGOTO	5	3	253	140	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to perform in the selected EPEA quadrants program a jump to the selected address. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0097	EABPUT	5	3	253	133	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to load in the selected EPEA quadrants a 8-bit data at a previously (by EAASET TC) RAM location. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0098	EAWPUT	5	3	253	134	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to load in the selected EPEA quadrants a 16-bit data at a previously (by EAASET TC) RAM location. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0099	EAASET	5	3	253	132	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to load in the selected EPEA quadrants register an address that will be used to load/dump data. Parameters are used to include the complete EPCE command foreseen for this function. Affected HK parameters: 1316-18, 1332-33, 1361-63, 1377-78, 1406-8, 1422-23, 1451-53, 1467-68.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0100	EABGET	5	3	253	135	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to dump from the selected EPEA quadrants a 8-bit data from a previously (by EAASET TC) RAM location. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0101	EAWGET	5	3	253	136	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to dump from the selected EPEA quadrants a 16-bit data from a previously (by EAASET TC) RAM location. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0102	EASECRES	5	3	253	113	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to reset the SECOM card of the selected EPEA quadrants. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0103	EARESERR	5	3	253	114	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to reset EPEA error counters (Ax_ERRCNT, Ax_LASTERR, Ax_ERRFLAG and Ax_CMDREJ) of the selected EPEA quadrants. Parameters are used to include the complete EPCE command foreseen for this function. Affected HK parameters are F1309-10, 1313, 1321, 1354-55, 1358, 1366, 1399-400, 1403, 1411, 1444-45, 1448, 1456.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0104	EAQSEQ	5	3	253	115	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to switch-on the CCD sequencer of the selected EPEA quadrants. Parameters are used to include the complete EPCE command foreseen for this function. Sequencer will be switched-off automatically by CPU access.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0105	EAPMODE	5	3	253	117	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to select the program mode of the selected EPEA quadrants Parameters are used to include the complete EPCE command foreseen for this function. According to the active quadrants, even HK parameters F1296-7, 1341-2, 1368, 1386-7, 1413, 1431-2 and 1458 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1323	50006	260	0	8		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0105	EAPMODE	5	3	253	117	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to select the program mode of the selected EPEA quadrants Parameters are used to include the complete EPCE command foreseen for this function. According to the active quadrants, even HK parameters F1296-7, 1341-2, 1368, 1386-7, 1413, 1431-2 and 1458 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1323	50001	338	0	8		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0105	EAPMODE	5	3	253	117	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to select the program mode of the selected EPEA quadrants Parameters are used to include the complete EPCE command foreseen for this function. According to the active quadrants, even HK parameters F1296-7, 1341-2, 1368, 1386-7, 1413, 1431-2 and 1458 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1323	50012	260	0	8		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0108	EACMCORR	5	3	253	147	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC sets in the selected EPEA quadrants the SECOM card corrective value to be used in order to process only positive energies Parameters are used to include the complete EPCE command foreseen for this function. According to the active quadrants, even HK parameters F1625, 1725 and 1825 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1525	50002	51	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0109	EACMLOTHR	5	3	253	148	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to set in the selected EPEA quadrants the lower threshold energy value for the selected CCDs. Parameters are used to include the complete EPCE command foreseen for this function. This TC affects HK parameters F1515-17, 1615-17, 1715-17, 1815-17, depending on selected quadrants.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0110	EACMDEV	5	3	253	149	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to set in the selected EPEA quadrants the lower and upper standard deviation limit. Pixels out of the fixed range will be marked as bad after computation. Parameters are used to include the complete EPCE command foreseen for this function. This TC affects HK parameters F1526/27, 1626/27, 1726/27 and 1826/27.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0111	EACHOP	5	3	253	155	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to program in the selected EPEA quadrants the undersampling rate (1 frame every N) of the incoming events. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1634, 1734 and 1834 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1534	50002	61	0	8		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0112	EACRLFIFO	5	3	253	156	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to reset the FIFO on the SECOM card for the selected EPEA quadrants. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0113	EACCDSEL	5	3	253	116	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to switch-on/off the three CCDs of the selected EPEA quadrants. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1364, 1409, 1454 and 1485-90 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0114	EARDMODE	5	3	253	118	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enter the Readout mode for all CCDs of the selected EPEA quadrants Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1639, 1739 and 1839 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1539	50002	67	0	8		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0116	EASENDMODE	5	3	253	120	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to select the MIP rejection mode for all CCDs of the selected EPEA quadrants Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1635, 1735 and 1835 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1535	50002	62	0	8		none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0117	EAMIPSEL	5	3	253	121	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to select in the selected EPEA quadrants the number of lines (below and above the MIP) to be rejected due to MIP. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1636, 1736 and 1836 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1536	50002	63	0	8		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0118	EAWIND	5	3	253	122	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to define the upper and the lower boundaries of a window in the selected EPEA quadrants. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1621-24, 1721-24 and 1821-24 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0119	EACMLSTATUS	5	3	253	151	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to set a pixel of a CCD of the selected EPEA quadrant as good or bad. Parameters are used to include the complete EPCE command foreseen for this function

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0120	EACMLINE	5	3	253	152	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to set all pixels in a line of a CCD of the selected EPEA quadrant as good or bad. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1628-30, 1728-30 and 1828-30 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0121	EACMCOL	5	3	253	153	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to set all pixels in a column of a CCD of the selected EPEA quadrant as good or bad. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1631-33, 1731-33 and 1831-33 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0122	EAMEDIAN	5	3	253	154	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to turn On/Off the median correction in the selected EPEA quadrants. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1340, 1385 and 1430 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1295	50006	239	6	1		none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0122	EAMEDIAN	5	3	253	154	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to turn On/Off the median correction in the selected EPEA quadrants. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1340, 1385 and 1430 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1295	50012	239	6	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0122	EAMEDIAN	5	3	253	154	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to turn On/Off the median correction in the selected EPEA quadrants. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1340, 1385 and 1430 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1295	50001	317	6	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0123	FWTOUT	5	3	254	48	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to define timeout value for Filter Wheel control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1114	50012	94	3	11		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0123	FWTOUT	5	3	254	48	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to define timeout value for Filter Wheel control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1114	50001	172	3	11		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0123	FWTOUT	5	3	254	48	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to define timeout value for Filter Wheel control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1114	50006	94	3	11		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0124	FWSTART/STOP	5	3	254	49	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to start/stop Filter Wheel. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1119	50006	97	5	1		none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0124	FWSTART/STOP	5	3	254	49	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to start/stop Filter Wheel. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1119	50001	175	5	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0124	FWSTART/STOP	5	3	254	49	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to start/stop Filter Wheel. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1119	50012	97	5	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0125	FWUP/DOWN	5	3	254	50	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to select the Filter Wheel movement direction. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1112	50012	94	1	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0125	FWUP/DOWN	5	3	254	50	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to select the Filter Wheel movement direction. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1112	50001	172	1	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0125	FWUP/DOWN	5	3	254	50	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to select the Filter Wheel movement direction. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1112	50006	94	1	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0126	FWEM/NOEM	5	3	254	51	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the emergency mode for the Filter Wheel. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1111	50006	94	0	1		none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0126	FWEM/NOEM	5	3	254	51	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the emergency mode for the Filter Wheel. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1111	50001	172	0	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0126	FWEM/NOEM	5	3	254	51	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the emergency mode for the Filter Wheel. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1111	50012	94	0	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0127	FWSEASON/OFF	5	3	254	52	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the Filter Wheel position sensor power according to the provided parameter. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1117	50001	174	3	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0127	FWSEASON/OFF	5	3	254	52	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the Filter Wheel position sensor power according to the provided parameter. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1117	50006	96	3	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0127	FWSEASON/OFF	5	3	254	52	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the Filter Wheel position sensor power according to the provided parameter. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1117	50012	96	3	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0129	FWGOTO	5	3	254	53	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to move the Filter Wheel in a specific position. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1118	50001	175	2	3		none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0129	FWGOTO	5	3	254	53	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to move the Filter Wheel in a specific position. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1118	50006	97	2	3		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0129	FWGOTO	5	3	254	53	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to move the Filter Wheel in a specific position. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1118	50012	97	2	3		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0130	FWCAL	5	3	254	54	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to move the Filter Wheel in a calibration position. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0131	TOHTEMP	5	3	254	64	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to set the regulation temperature (in K) to be used for the operating heater thermal control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1267	50001	276	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0131	TOHTEMP	5	3	254	64	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to set the regulation temperature (in K) to be used for the operating heater thermal control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1267	50012	198	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0131	TOHTEMP	5	3	254	64	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to set the regulation temperature (in K) to be used for the operating heater thermal control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1267	50006	198	0	16		none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0132	TOHCTRL	5	3	254	65	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to set the operating heater thermal control algorithm Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1265	50001	272	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0132	TOHCTRL	5	3	254	65	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to set the operating heater thermal control algorithm Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1265	50006	194	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0132	TOHCTRL	5	3	254	65	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to set the operating heater thermal control algorithm Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1265	50012	194	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0133	TOHSTART/STOP	5	3	254	66	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to enable/disable the operating heater thermal control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1266	50006	196	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0133	TOHSTART/STOP	5	3	254	66	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to enable/disable the operating heater thermal control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1266	50001	274	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0133	TOHSTART/STOP	5	3	254	66	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to enable/disable the operating heater thermal control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1266	50012	196	0	16		none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0134	TDHTEMP	5	3	254	67	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to set the regulation temperature (in K) to be used for the decontamination heater thermal control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1270	50012	204	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0134	TDHTEMP	5	3	254	67	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to set the regulation temperature (in K) to be used for the decontamination heater thermal control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1270	50001	282	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0134	TDHTEMP	5	3	254	67	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to set the regulation temperature (in K) to be used for the decontamination heater thermal control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1270	50006	204	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0135	TDHCTRL	5	3	254	68	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to set the decontamination heater thermal control algorithm. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1268	50012	200	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0135	TDHCTRL	5	3	254	68	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to set the decontamination heater thermal control algorithm. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1268	50006	200	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0135	TDHCTRL	5	3	254	68	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to set the decontamination heater thermal control algorithm. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1268	50001	278	0	16		none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0136	TDHSTART/STOP	5	3	254	69	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to enable/disable the decontamination heater thermal control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1269	50012	202	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0136	TDHSTART/STOP	5	3	254	69	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to enable/disable the decontamination heater thermal control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1269	50006	202	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0136	TDHSTART/STOP	5	3	254	69	N/A	N/A	NORMAL	X5014	I/IFT/EXH mode

This TC is used to enable/disable the decontamination heater thermal control. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1269	50001	280	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0139	VCPWRON/OFF	5	3	254	80	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to switch on/off one of the several converters or switches inside the EPVC. Parameters are used to include the complete EPCE command foreseen for this function. Affected HK parameters are F1178-85; end-effect verification HK parameters are F1170-77.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0140	VCMULTI	5	3	254	81	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to switch on/off, in a certain configuration, all the converters or switches inside the EPVC. Parameters are used to include the complete EPCE command foreseen for this function. End-effect verification HK parameters are F1170-77.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0141	VCSET	5	3	254	82	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to set the digital level of one of more programmable converters in the EPVC Parameters are used to include the complete EPCE command foreseen for this function. End-effect verification HK parameters are F1198-1201 and 1203.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0142	VCION/OFF	5	3	254	83	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the several current measurements available in the EPVC Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1168	50001	216	2	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0142	VCION/OFF	5	3	254	83	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the several current measurements available in the EPVC Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1168	50006	138	2	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0142	VCION/OFF	5	3	254	83	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the several current measurements available in the EPVC Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1168	50012	138	2	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0143	VCSYNCON/OFF	5	3	254	84	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the EPVC synchronization with an external synchronization signal Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1169	50006	138	3	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0143	VCSYNCON/OFF	5	3	254	84	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the EPVC synchronization with an external synchronization signal Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1169	50012	138	3	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0143	VCSYNCON/OFF	5	3	254	84	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the EPVC synchronization with an external synchronization signal Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1169	50001	216	3	1		none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0158	CHSETSV	5	3	254	176	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to set one of the several static voltage of the selected EPCH quadrants. Parameters are used to include the complete EPCE command foreseen for this function. End-effect verification HK parameters are F1249-52 and 1547-54, 1647-54, 1747-54, 1847-54.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0159	CHPWON	5	3	254	177	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to switch-on one or more electronics of the selected quadrants in the EPCH. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1209-20 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0160	CHPWROFF	5	3	254	178	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to switch-off one or more electronics of the selected quadrants in the EPCH. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1209-20 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0161	CHPWON/OFF	5	3	254	179	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to configure the switches status of the electronics of the selected quadrants in the EPCH. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1209-20 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0162	CHCMXTSW	5	3	254	180	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to configure the test switches status of CAMEX electronics of the selected quadrants in the EPCH. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1228-31, 1235-38 and 1242-45 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0163	CHCMXGAIN	5	3	254	181	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to configure the CAMEX gain level of the selected quadrants in the EPCH. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1232-34, 1239-41 and 1246-48 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0164	CHEARES	5	3	254	182	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to generate a reset pulse to the CPU of the selected quadrants in the EPEA. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0168	EPCEResetCommand	5	3	255	192	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC switches-on for few hundred of milliseconds the relay contact connected to the EPCE microprocessor reset line.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0169	DumpEPEA1 Memory	6	2	N/A	N/A	32	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to dump some EPEA Quadrant 1 memory area (RAM + PROM). The parameters are used to specify respectively the start address and the length of the memory area to be dumped. One or more Memory Dump Reports (TM 6.2) will be sent by TM link.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0170	CalcEPEA1 MemCKS	6	3	N/A	N/A	32	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to calculate checksum of the specified part of EPEA Quadrant 1 PROM/RAM memory area. The parameters are used to specify respectively the start address and the length of the memory area to be checked. This TC affects even HK parameters F1608-1610 and 1379.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1611	50002	136	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0171	DumpEPEA2 Memory	6	2	N/A	N/A	48	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to dump some EPEA Quadrant 2 memory area (RAM + PROM). The parameters are used to specify respectively the start address and the length of the memory area to be dumped. One or more Memory Dump Reports (TM 6.2) will be sent by TM link.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0172	CalcEPEA2 MemCKS	6	3	N/A	N/A	48	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to calculate checksum of the specified part of EPEA Quadrant 2 PROM/RAM memory area. The parameters are used to specify respectively the start address and the length of the memory area to be checked. This TC affects even HK parameters F1708-1710 and 1424.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1711	50002	242	0	16		none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0173	DumpEPEA3 Memory	6	2	N/A	N/A	64	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to dump some EPEA Quadrant 3 memory area (RAM + PROM). The parameters are used to specify respectively the start address and the length of the memory area to be dumped. One or more Memory Dump Reports (TM 6.2) will be sent by TM link.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0174	CalcEPEA3 MemCKS	6	3	N/A	N/A	64	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to calculate checksum of the specified part of EPEA Quadrant 3 PROM/RAM memory area. The parameters are used to specify respectively the start address and the length of the memory area to be checked. This TC affects even HK parameters F1808-1810 and 1469.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1811	50002	348	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0175	EARAMCHK	5	3	253	129	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to check (read & write method) the selected RAM area in the selected EPEA quadrants. Parameters are used to include the complete EPCE command foreseen for this function. If parameter F0061 is set to 0, the RAM check in progress is stopped. This TC affects even HK parameters F1612-14, 1712-14, 1812-14, 1367, 1412, 1457.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1322	50001	337	5	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0175	EARAMCHK	5	3	253	129	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to check (read & write method) the selected RAM area in the selected EPEA quadrants. Parameters are used to include the complete EPCE command foreseen for this function. If parameter F0061 is set to 0, the RAM check in progress is stopped. This TC affects even HK parameters F1612-14, 1712-14, 1812-14, 1367, 1412, 1457.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1322	50006	259	5	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0175	EARAMCHK	5	3	253	129	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to check (read & write method) the selected RAM area in the selected EPEA quadrants. Parameters are used to include the complete EPCE command foreseen for this function. If parameter F0061 is set to 0, the RAM check in progress is stopped. This TC affects even HK parameters F1612-14, 1712-14, 1812-14, 1367, 1412, 1457.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1322	50012	259	5	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0176	EAMAXFRC	5	3	253	124	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to select the "Count Info" rate (number of cycles after that the "Count Info" is sent) in the selected EPEA quadrant. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1638, 1738 and 1838 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1538	50002	66	0	8		none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0177	EAFILLWORD	5	3	253	126	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to fill the selected memory area in the selected EPEA quadrants, with a fixed parameter Parameters are used to include the complete EPCE command foreseen for this function. Parameter F0061 must be an even number.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0178	EAWR_IO	5	3	253	127	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to send a 16-bit data to the selected I/O port in the selected EPEA quadrants. Parameters are used to include the complete EPCE command foreseen for this function

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0179	CERAMCHK	5	3	254	30	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to check (read & write method) the selected RAM area in the EPCE. Parameters are used to include the complete EPCE command foreseen for this function. If parameter F0061 is set to 0, the RAM check in progress is stopped.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1068	50012	51	5	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0179	CERAMCHK	5	3	254	30	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to check (read & write method) the selected RAM area in the EPCE. Parameters are used to include the complete EPCE command foreseen for this function. If parameter F0061 is set to 0, the RAM check in progress is stopped.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1068	50001	129	5	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0179	CERAMCHK	5	3	254	30	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to check (read & write method) the selected RAM area in the EPCE. Parameters are used to include the complete EPCE command foreseen for this function. If parameter F0061 is set to 0, the RAM check in progress is stopped.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1068	50006	51	5	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0180	EACMADDOFFS	5	3	253	146	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to add a constant value to all the calculated offset values of a CCD column; it affects all the selected quadrants Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1603-5, 1703-5 and 1803-5 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0181	EAIOWR	5	3	253	142	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to load in the selected EPEA quadrants a 8-bit or a 16-bit data at a previously selected (by EAASET TC) RAM location
Parameters are used to include the complete EPCE command foreseen for this function. If a byte data is selected with parameter F0073, only the Least Significant Byte of parameter F0070 is considered.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0182	EAIORD	5	3	253	143	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to dump from the selected EPEA quadrants a 8- or 16-bit data at a previously selected (by EAASET TC) RAM location.
Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0183	EAMMODE	5	3	253	141	N/A	N/A	NORMAL	X5010	SSB / IFT mode

This TC is used to set the data modify mode of the selected EPEA quadrants for EABSET, EABGET, EAWSET and EAWGET TCs.
Parameters are used to include the complete EPCE command foreseen for this function. PREF F0077 is meaningful only if PREF F0075 is set to 1. Even HK parameters F1343, 1344, 1346, 1388, 1389, 1391, 1433, 1434 and 1436 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0185	EASAVEOFT	5	3	253	119	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to save/load one previously calculated offset table to/from RAM memory. Parameters are used to include the complete EPCE command foreseen for this function

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0186	CEIOWR	5	3	254	37	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used to load in the EPCE a 8-bit or a 16-bit data at a previously selected (by CEASET TC, MFN F0088) I/O location. Parameters are used to include the complete EPCE command foreseen for this function. If a byte data is selected with parameter F0073, only the Least Significant Byte of parameter F0070 is considered.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0187	CEIORD	5	3	254	38	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used to dump from the EPCE a 8-bit or a 16-bit data from a previously selected (by CEASET TC, MFN F0088) I/O location.
Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0188	FWSLOW/FAST	5	3	254	55	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to select the Filter Wheel movement speed according to the provided parameter. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1115	50001	173	6	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0188	FWSLOW/FAST	5	3	254	55	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to select the Filter Wheel movement speed according to the provided parameter. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1115	50012	95	6	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0188	FWSLOW/FAST	5	3	254	55	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to select the Filter Wheel movement speed according to the provided parameter. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1115	50006	95	6	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0189	FWTOUTON/OFF	5	3	254	56	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the timeout function on the autostop mode during the Filter Wheel movement. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1116	50001	173	7	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0189	FWTOUTON/OFF	5	3	254	56	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the timeout function on the autostop mode during the Filter Wheel movement. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1116	50012	95	7	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0189	FWTOUTON/OFF	5	3	254	56	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the timeout function on the autostop mode during the Filter Wheel movement. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1116	50006	95	7	1		none	none	none	none	none

EPCS TC PACKET DETAILED LIST

EPIC-EST-TN-005 I.3

Appendix G

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0190	FWSTOPON/OFF	5	3	254	57	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the Filter Wheel stop sensor action. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1113	50006	94	2	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0190	FWSTOPON/OFF	5	3	254	57	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the Filter Wheel stop sensor action. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1113	50001	172	2	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0190	FWSTOPON/OFF	5	3	254	57	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the Filter Wheel stop sensor action. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1113	50012	94	2	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0191	BELWPON/OFF	5	3	254	58	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the Door Bellow Hall Sensors power. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1130	50006	113	5	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0191	BELWPON/OFF	5	3	254	58	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the Door Bellow Hall Sensors power. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1130	50012	113	5	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0191	BELWPON/OFF	5	3	254	58	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to enable/disable the Door Bellow Hall Sensors power. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1130	50001	191	5	1		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0192	EAPATCH	5	3	253	157	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to patch the S/W code changing the pointing address in one entry of the code vector list in the selected quadrants. Parameter F0165 is the Number Identifier if F0164=1 and the Address Segment if F0164=2, otherwise it is not meaningful; parameter F0166 is the Address Offset if F0164=2, otherwise it is not meaningful.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0193	CEPATCH	5	3	254	39	N/A	N/A	NORMAL	X5008	SafeStandBy mode

This TC is used to patch the S/W code changing the pointing address in one entry of the S/W code vector list. Parameter F0165 is the Number Identifier if F0164=1 and the Address Segment if F0164=2, otherwise it is not meaningful; parameter F0166 is the Address Offset if F0164=2, otherwise it is not meaningful.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0194	CEDC	5	3	254	35	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to command a specific register of a specific slave via SIF-MASTER and store resulting data in CE_DCSTAT & CE_DCDA. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1104	50012	83	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0194	CEDC	5	3	254	35	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to command a specific register of a specific slave via SIF-MASTER and store resulting data in CE_DCSTAT & CE_DCDA. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1104	50001	161	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0194	CEDC	5	3	254	35	N/A	N/A	NORMAL	X5012	SSB/I/IFT mode

This TC is used to command a specific register of a specific slave via SIF-MASTER and store resulting data in CE_DCSTAT & CE_DCDA. Parameters are used to include the complete EPCE command foreseen for this function.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	F1104	50006	83	0	16		none	none	none	none	none

MF_NO	NAME	TYPE	STYPE	TID	FID	MID	MODE	CATEGORY	CONDITION	CONDITION NAME
F0195	EAMIP	5	3	253	125	N/A	N/A	NORMAL	X5011	Idle / IFT mode

This TC is used to set the MIP's threshold (high threshold) in the selected EPEA quadrants. Parameters are used to include the complete EPCE command foreseen for this function. Depending upon selected quadrants, even HK parameters F1679, 1779 and 1879 can be affected.

ACC.	EXEC.	VERIF. TIME	VERIF. TM PREF	TPN	OFFSET	START	WIDTH	VERIF. TM VAL.	PREC.	FOLL.	ALT.	RED.	OPP.
0	0	0	none						none	none	none	none	none