

SWA Manage OP/Non-OP Heaters
File: IA-FCP-803.xls
Author: daniel lakey



Procedure Summary

Objectives

Manage OP/NONOP Survival Heaters

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

End of Procedure

Reference File(s)

Input Command Sequences

Output Command Sequences

AIAF803A
AIAF803B
AIAF803C
AIAF803D

Referenced Displays

ANDs GRDs SLDs
(None)

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
14/01/2020		1	SOL_FCR-60 : Update SWA procedures for CSW 3.0.3 & latest FSW	dlakey	M7
20/01/2020	3				M7

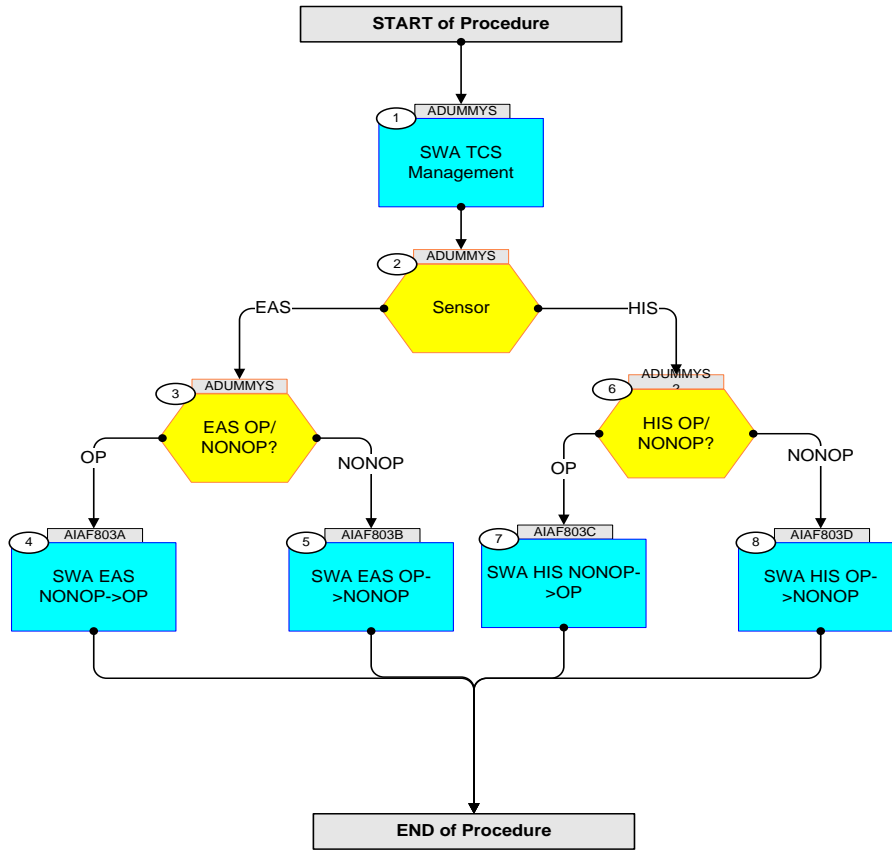
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solar orbiter



Procedure Flowchart Overview



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Step	Label/Time	Activity/Remarks/Branch	CK	Display
Beginning of Procedure				
Beginning of Sequence				
ADUMMYS		SWA TCS Management TimeTag type : B		
1		SWA TCS Management <i>Next step(s):</i> -> 2		
		SWA TCS FDIR needs to be managed between "NONOP" and "OP" configurations. NONOP -> OP : 1 hour after Type 1 OCM / SWA On after safe mode OP -> NONOP : Before Type 1 OCM The CSW-default is NONOP		
2		Sensor <i>Next step(s):</i> -> 3 EAS -> 6 HIS		
3		EAS OP/NONOP? <i>Next step(s):</i> -> 4 OP -> 5 NONOP		
ADUMMYS		End of Sequence		
Beginning of Sequence				
AIAF803A		SWA EAS NONOP->OP SeqFlags [Crit/Plan/Stdalone/Sched] : NSYN Forced Subschedule : SWA (109) TimeTag type : B		
4		SWA EAS NONOP->OP <i>Next step(s):</i> -> END		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
		FMON Description -----+----- 3 FMON_TCS1_3 TCL65-96 Temp Level 2 4 FMON_TCS1_4 TCL97-104 Temp Level 2		
		SMON Descr -----+----- 95 SMON_TCS1_NONOP TCL 95 Temp Level 1 199 SMON_TCS2_NONOP TCL 95 Temp Level 2 229 SMON_TCS1_OP TCL 95 Temp Level 1 231 SMON_TCS2_OP TCL 95 Temp Level 2		
	+00.00.00	Execute Telecommand ZTC08E0D Unprotect Func Mon Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD8E061 Nb FMONs to process = 2 <dec> PCD8E012 FMON Id to process = 3 <dec> PCD8E012 FMON Id to process = 4 <dec>		
	+00.00.01	Execute Telecommand ZTC00C02 Disable Monitoring of Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD0C011 Nb PMONs to process = 2 <dec> PCD0C012 PMON Id = 95 <dec> PCD0C012 PMON Id = 199 <dec>		
	+00.00.01	Execute Telecommand ZTC00C01 Enable Monitoring of Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD0C011 Nb PMONs to process = 2 <dec> PCD0C012 PMON Id = 229 <dec> PCD0C012 PMON Id = 231 <dec>		
	+00.00.01	Execute Telecommand ZTC08E0C Protect Func Mon Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD8E061 Nb FMONs to process = 2 <dec> PCD8E012 FMON Id to process = 3 <dec> PCD8E012 FMON Id to process = 4 <dec>		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.01	Execute Telecommand ZTC00C08 Report Current Monitoring List TC Control Flags: GBM IL DSE --Y NC ---		
		Verify Packet Reception YTC00C09 Monitoring List Report TM(12,9), APID 259 (16/3) PI1=0 PI2=0		
		NCD0C094 OBCHP_S12_Mon_ID = 95 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = DISABLED		(None)
		NCD0C094 OBCHP_S12_Mon_ID = 199 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = DISABLED		(None)
		NCD0C094 OBCHP_S12_Mon_ID = 229 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = ENABLED		(None)
		NCD0C094 OBCHP_S12_Mon_ID = 231 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = ENABLED		(None)
AIAF803A		End of Sequence		
AIAF803B		Beginning of Sequence		
		SWA EAS OP->NONOP SeqFlags [Crit/Plan/Stdalone/Sched] : NSYN Forced Subschedule : SWA (109) TimeTag type : B		
5		SWA EAS OP->NONOP Next step(s): -> END		
		FMON Description -----+----- 3 FMON_TCS1_3 TCL65-96 Temp Level 2 4 FMON_TCS1_4 TCL97-104 Temp Level 2		
		SMON Descr -----+----- 95 SMON_TCS1_NONOP TCL 95 Temp Level 1 199 SMON_TCS2_NONOP TCL 95 Temp Level 2 229 SMON_TCS1_OP TCL 95 Temp Level 1 231 SMON_TCS2_OP TCL 95 Temp Level 2		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.00	Execute Telecommand ZTC08E0D Unprotect Func Mon Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD8E061 Nb FMONs to process = 2 <dec> PCD8E012 FMON Id to process = 3 <dec> PCD8E012 FMON Id to process = 4 <dec>		
	+00.00.01	Execute Telecommand ZTC00C02 Disable Monitoring of Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD0C011 Nb PMONs to process = 2 <dec> PCD0C012 PMON Id = 229 <dec> PCD0C012 PMON Id = 231 <dec>		
	+00.00.01	Execute Telecommand ZTC00C01 Enable Monitoring of Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD0C011 Nb PMONs to process = 2 <dec> PCD0C012 PMON Id = 95 <dec> PCD0C012 PMON Id = 199 <dec>		
	+00.00.01	Execute Telecommand ZTC08E0C Protect Func Mon Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD8E061 Nb FMONs to process = 2 <dec> PCD8E012 FMON Id to process = 3 <dec> PCD8E012 FMON Id to process = 4 <dec>		
	+00.00.01	Execute Telecommand ZTC00C08 Report Current Monitoring List TC Control Flags: GBM IL DSE --Y NC ---		
		Verify Packet Reception YTC00C09 Monitoring List Report TM(12,9), APID 259 (16/3) PI1=0 PI2=0		
		NCD0C094 OBCHP_S12_Mon_ID = 95 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = ENABLED		(None)

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
		NCD0C094 OBCHP_S12_Mon_ID = 199 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = ENABLED		(None)
		NCD0C094 OBCHP_S12_Mon_ID = 229 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = DISABLED		(None)
		NCD0C094 OBCHP_S12_Mon_ID = 231 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = DISABLED		(None)
AIAF803B End of Sequence				
Beginning of Sequence				
ADUMMYS2		SWA TCS Management		
TimeTag type : B				
6		HIS OP/NONOP? Next step(s): -> 7 OP -> 8 NONOP		
ADUMMYS2 End of Sequence				
Beginning of Sequence				
AIAF803C		SWA HIS NONOP->OP		
SeqFlags [Crit/Plan/Stdalone/Sched] : NSYN				
Forced Subschedule : SWA (109)				
TimeTag type : B				
7		SWA HIS NONOP->OP Next step(s): -> END		
		FMON Description -----+----- 3 FMON_TCS1_3 TCL65-96 Temp Level 2 4 FMON_TCS1_4 TCL97-104 Temp Level 2		
		SMON Descr -----+----- 96 SMON_TCS1_NONOP TCL 96 Temp Level 1 200 SMON_TCS2_NONOP TCL 96 Temp Level 2 230 SMON_TCS1_OP TCL 96 Temp Level 1 232 SMON_TCS2_OP TCL 96 Temp Level 2		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.00	Execute Telecommand ZTC08E0D Unprotect Func Mon Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD8E061 Nb FMONs to process = 2 <dec> PCD8E012 FMON Id to process = 3 <dec> PCD8E012 FMON Id to process = 4 <dec>		
	+00.00.01	Execute Telecommand ZTC00C02 Disable Monitoring of Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD0C011 Nb PMONs to process = 2 <dec> PCD0C012 PMON Id = 96 <dec> PCD0C012 PMON Id = 200 <dec>		
	+00.00.01	Execute Telecommand ZTC00C01 Enable Monitoring of Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD0C011 Nb PMONs to process = 2 <dec> PCD0C012 PMON Id = 230 <dec> PCD0C012 PMON Id = 232 <dec>		
	+00.00.01	Execute Telecommand ZTC08E0C Protect Func Mon Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD8E061 Nb FMONs to process = 2 <dec> PCD8E012 FMON Id to process = 3 <dec> PCD8E012 FMON Id to process = 4 <dec>		
	+00.00.01	Execute Telecommand ZTC00C08 Report Current Monitoring List TC Control Flags: GBM IL DSE --Y NC ---		
		Verify Packet Reception YTC00C09 Monitoring List Report TM(12,9), APID 259 (16/3) PI1=0 PI2=0		
		NCD0C094 OBCHP_S12_Mon_ID = 96 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = DISABLED		(None)

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
		NCD0C094 OBCHP_S12_Mon_ID = 200 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = DISABLED		(None)
		NCD0C094 OBCHP_S12_Mon_ID = 230 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = ENABLED		(None)
		NCD0C094 OBCHP_S12_Mon_ID = 232 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = ENABLED		(None)
AIAF803C		End of Sequence		
AIAF803D		Beginning of Sequence		
		SWA HIS OP->NONOP SeqFlags [Crit/Plan/Stdalone/Sched] : NSYN Forced Subschedule : SWA (109) TimeTag type : B		
8		SWA HIS OP->NONOP Next step(s): -> END		
		FMON Description -----+----- 3 FMON_TCS1_3 TCL65-96 Temp Level 2 4 FMON_TCS1_4 TCL97-104 Temp Level 2		
		SMON Descr -----+----- 96 SMON_TCS1_NONOP TCL 96 Temp Level 1 200 SMON_TCS2_NONOP TCL 96 Temp Level 2 230 SMON_TCS1_OP TCL 96 Temp Level 1 232 SMON_TCS2_OP TCL 96 Temp Level 2		
	+00.00.00	Execute Telecommand ZTC08E0D Unprotect Func Mon Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD8E061 Nb FMONs to process = 2 <dec> PCD8E012 FMON Id to process = 3 <dec> PCD8E012 FMON Id to process = 4 <dec>		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.01	Execute Telecommand ZTC00C02 Disable Monitoring of Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD0C011 Nb PMONs to process = 2 <dec> PCD0C012 PMON Id = 230 <dec> PCD0C012 PMON Id = 232 <dec>		
	+00.00.01	Execute Telecommand ZTC00C01 Enable Monitoring of Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD0C011 Nb PMONs to process = 2 <dec> PCD0C012 PMON Id = 96 <dec> PCD0C012 PMON Id = 200 <dec>		
	+00.00.01	Execute Telecommand ZTC08E0C Protect Func Mon Parameters TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PCD8E061 Nb FMONs to process = 2 <dec> PCD8E012 FMON Id to process = 3 <dec> PCD8E012 FMON Id to process = 4 <dec>		
	+00.00.01	Execute Telecommand ZTC00C08 Report Current Monitoring List TC Control Flags: GBM IL DSE --Y NC ---		
		Verify Packet Reception YTC00C09 Monitoring List Report TM(12,9), APID 259 (16/3) PI1=0 PI2=0		
		NCD0C094 OBCHP_S12_Mon_ID = 96 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = ENABLED		(None)
		NCD0C094 OBCHP_S12_Mon_ID = 200 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = ENABLED		(None)
		NCD0C094 OBCHP_S12_Mon_ID = 230 <dec>		(None)
		NCD0C099 OBCHP_S12_Mon_Status = DISABLED		(None)
		NCD0C094 OBCHP_S12_Mon_ID = 232 <dec>		(None)

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
		NCD0C099 OBCHP_S12_Mon_Status = DISABLED		(None)
AIAF803D		End of Sequence		
End of Procedure				