

SWA Recover EAS MCPs
File: IA-FCP-108_in.xls
Author: daniel lakey



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Procedure Summary

Objectives

Recover EAS MCPs after turning to zero

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

EAS on, science not being produced, MCPs at level zero

End of Procedure

EAS on, science not being produced, MCPs at operational level

Reference File(s)

Input Command Sequences

Output Command Sequences

ATAF108A

Referenced Displays

ANDs GRDs SLDs

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

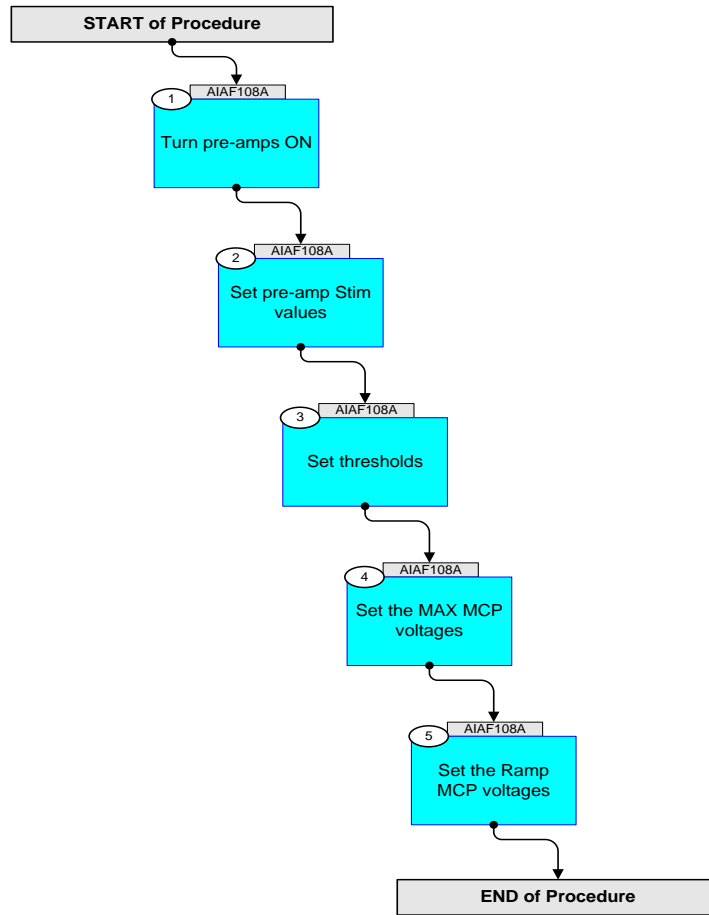
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Procedure Flowchart Overview



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Step	Label/Time	Activity/Remarks/Branch	CK	Display
Beginning of Procedure				
Beginning of Sequence				
	AIAF108A	SWA Recover EAS MCPs SeqFlags [Crit/Plan/Stdalone/Sched] : NSYN Forced Subschedule : SWA (109) TimeTag type : B <u>Formal Parameter List</u> {FP} XF108A01 DefVal = 800 (MAX_VAL) <hex> {FP} XF108A02 DefVal = 800 (MAX_VAL) <hex> {FP} XF108A03 DefVal = 400 (NEW_VAL) <hex> {FP} XF108A04 DefVal = 400 (NEW_VAL) <hex>		
1		Turn pre-amps ON Next step(s): -> 2		
		Turn pre-amps ON		
		Turn EAS1 pre-amps ON		
	+00.00.00	Send SWA_TC_EAS1_PRE_AMP_WRITE ZIA58777 SWA_TC_EAS1_PRE_AMP_WRITE TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA58066 PRE_AMP1 = ON (Def) PIA58067 PRE_AMP2 = OFF		
	+00.00.01	Send SWA_TC_EAS1_PRE_AMP_WRITE ZIA58777 SWA_TC_EAS1_PRE_AMP_WRITE TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA58066 PRE_AMP1 = ON (Def) PIA58067 PRE_AMP2 = ON (Def)		
		Turn EAS2 pre-amps ON		

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	+00.00.02	Send SWA_TC_EAS2_PRE_AMP_WRITE ZIA58825 SWA_TC_EAS2_PRE_AMP_WRITE TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA58066 PRE_AMP1 = ON (Def) PIA58067 PRE_AMP2 = OFF		
	+00.00.01	Send SWA_TC_EAS2_PRE_AMP_WRITE ZIA58825 SWA_TC_EAS2_PRE_AMP_WRITE TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA58066 PRE_AMP1 = ON (Def) PIA58067 PRE_AMP2 = ON (Def)		
2		Set pre-amp Stim values Next step(s): -> 3		
		Set pre-amp Stim values		
		Set EAS1 pre-amp1 stim		
	+00.00.02	Send SWA_TC_EAS1_SET_PRE_AMP_DATA ZIA58774 SWA_TC_EAS1_SET_PRE_AMP_DATA TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60013 PRE_AMP_ID = PRE-AMP1 (Def) PIA60429 CMD_DATA_0 = 0 <hex> PIA60430 CMD_DATA_1 = 0F <hex> PIA60431 CMD_DATA_2 = F0 <hex>		
		Set EAS1 pre-amp2 stim		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.02	Send SWA_TC_EAS1_SET_PRE_AMP_DATA ZIA58774 SWA_TC_EAS1_SET_PRE_AMP_DATA TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60013 PRE_AMP_ID = PRE-AMP2 PIA60429 CMD_DATA_0 = 0 <hex> PIA60430 CMD_DATA_1 = 0F <hex> PIA60431 CMD_DATA_2 = F0 <hex>		
		Set EAS2 pre-amp1 stim		
	+00.00.02	Send SWA_TC_EAS2_SET_PRE_AMP_DATA ZIA58822 SWA_TC_EAS2_SET_PRE_AMP_DATA TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60013 PRE_AMP_ID = PRE-AMP1 (Def) PIA60429 CMD_DATA_0 = 0 <hex> PIA60430 CMD_DATA_1 = 0F <hex> PIA60431 CMD_DATA_2 = F0 <hex>		
		Set EAS2 pre-amp2 stim		
	+00.00.02	Send SWA_TC_EAS2_SET_PRE_AMP_DATA ZIA58822 SWA_TC_EAS2_SET_PRE_AMP_DATA TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60013 PRE_AMP_ID = PRE-AMP2 PIA60429 CMD_DATA_0 = 0 <hex> PIA60430 CMD_DATA_1 = 0F <hex> PIA60431 CMD_DATA_2 = F0 <hex>		
3		Set thresholds Next step(s): -> 4		
		Set thresholds		
		Set EAS1 thresholds		

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	+00.00.02	Send SWA_TC_EAS1_SET_PREAMP_DATA ZIA58797 SWA_TC_EAS1_SET_PREAMP_DATA TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60174 CMD_DATA_TH1 = 005F40 <hex> PIA60185 CMD_DATA_TH2 = 005F41 <hex> PIA60196 CMD_DATA_TH3 = 005F42 <hex> PIA60200 CMD_DATA_TH4 = 005F43 <hex> PIA60201 CMD_DATA_TH5 = 005F44 <hex> PIA60202 CMD_DATA_TH6 = 005F45 <hex> PIA60203 CMD_DATA_TH7 = 006586 <hex> PIA60204 CMD_DATA_TH8 = 006587 <hex> PIA60205 CMD_DATA_TH9 = 0066C8 <hex> PIA60175 CMD_DATA_TH10 = 005F49 <hex> PIA60176 CMD_DATA_TH11 = 005F4A <hex> PIA60177 CMD_DATA_TH12 = 005F4B <hex> PIA60178 CMD_DATA_TH13 = 005F4C <hex> PIA60179 CMD_DATA_TH14 = 005F4D <hex> PIA60180 CMD_DATA_TH15 = 005F4E <hex> PIA60181 CMD_DATA_TH16 = 005F4F <hex> PIA60182 CMD_DATA_TH17 = 005F40 <hex> PIA60183 CMD_DATA_TH18 = 005F41 <hex> PIA60184 CMD_DATA_TH19 = 005F42 <hex> PIA60186 CMD_DATA_TH20 = 005F43 <hex> PIA60187 CMD_DATA_TH21 = 005F44 <hex> PIA60188 CMD_DATA_TH22 = 005F45 <hex> PIA60189 CMD_DATA_TH23 = 005F46 <hex> PIA60190 CMD_DATA_TH24 = 005F47 <hex> PIA60191 CMD_DATA_TH25 = 005F48 <hex> PIA60192 CMD_DATA_TH26 = 005F49 <hex> PIA60193 CMD_DATA_TH27 = 005F4A <hex> PIA60194 CMD_DATA_TH28 = 005CCB <hex> PIA60195 CMD_DATA_TH29 = 005F4C <hex> PIA60197 CMD_DATA_TH30 = 005F4D <hex> PIA60198 CMD_DATA_TH31 = 005F4E <hex> PIA60199 CMD_DATA_TH32 = 005F4F <hex>		
		Set EAS2 thresholds		

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	+00.00.02	<p>Send SWA_TC_EAS2_SET_PREAMP_DATA</p> <p>ZIA58845 SWA_TC_EAS2_SET_PREAMP_DATA</p> <p>TC Control Flags: GBM IL DSE --Y NC ---</p> <p>Command Parameters :</p> <p>PIA60174 CMD_DATA_TH1 = 005F40 <hex></p> <p>PIA60185 CMD_DATA_TH2 = 005F41 <hex></p> <p>PIA60196 CMD_DATA_TH3 = 005F42 <hex></p> <p>PIA60200 CMD_DATA_TH4 = 005F43 <hex></p> <p>PIA60201 CMD_DATA_TH5 = 005F44 <hex></p> <p>PIA60202 CMD_DATA_TH6 = 005F45 <hex></p> <p>PIA60203 CMD_DATA_TH7 = 006586 <hex></p> <p>PIA60204 CMD_DATA_TH8 = 006587 <hex></p> <p>PIA60205 CMD_DATA_TH9 = 0066C8 <hex></p> <p>PIA60175 CMD_DATA_TH10 = 005F49 <hex></p> <p>PIA60176 CMD_DATA_TH11 = 005F4A <hex></p> <p>PIA60177 CMD_DATA_TH12 = 005F4B <hex></p> <p>PIA60178 CMD_DATA_TH13 = 005F4C <hex></p> <p>PIA60179 CMD_DATA_TH14 = 005F4D <hex></p> <p>PIA60180 CMD_DATA_TH15 = 005F4E <hex></p> <p>PIA60181 CMD_DATA_TH16 = 005F4F <hex></p> <p>PIA60182 CMD_DATA_TH17 = 005F40 <hex></p> <p>PIA60183 CMD_DATA_TH18 = 005F41 <hex></p> <p>PIA60184 CMD_DATA_TH19 = 005F42 <hex></p> <p>PIA60186 CMD_DATA_TH20 = 005F43 <hex></p> <p>PIA60187 CMD_DATA_TH21 = 005F44 <hex></p> <p>PIA60188 CMD_DATA_TH22 = 005F45 <hex></p> <p>PIA60189 CMD_DATA_TH23 = 005F46 <hex></p> <p>PIA60190 CMD_DATA_TH24 = 005F47 <hex></p> <p>PIA60191 CMD_DATA_TH25 = 005F48 <hex></p> <p>PIA60192 CMD_DATA_TH26 = 005F49 <hex></p> <p>PIA60193 CMD_DATA_TH27 = 005F4A <hex></p> <p>PIA60194 CMD_DATA_TH28 = 005CCB <hex></p> <p>PIA60195 CMD_DATA_TH29 = 005F4C <hex></p> <p>PIA60197 CMD_DATA_TH30 = 005F4D <hex></p> <p>PIA60198 CMD_DATA_TH31 = 005F4E <hex></p> <p>PIA60199 CMD_DATA_TH32 = 005F4F <hex></p>		
4		<p>Set the MAX MCP voltages</p> <p>Next step(s): -> 5</p>		
		Set the MAX MCP voltages		
		Set the MAX EAS1 MCP voltage		

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	+00.00.02	Send SWA_TC_EAS1_SET_MCP_MAX_HV ZIA58783 SWA_TC_EAS1_SET_MCP_MAX_HV TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60169 MAX_VAL = XF108A01		
		Set the MAX EAS2 MCP voltage		
	+00.00.02	Send SWA_TC_EAS2_SET_MCP_MAX_HV ZIA58831 SWA_TC_EAS2_SET_MCP_MAX_HV TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60169 MAX_VAL = XF108A02		
5		Set the Ramp MCP voltages Next step(s): -> END		
		Set the Ramp MCP voltages		
		Set the EAS1 MCP Ramp voltage		
	+00.00.02	Send SWA_TC_EAS1_SET_MCP_HV ZIA58784 SWA_TC_EAS1_SET_MCP_HV TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60218 NEW_VAL = XF108A03		
		Set the EAS2 MCP Ramp voltage		
	+00.00.20	Send SWA_TC_EAS2_SET_MCP_HV ZIA58832 SWA_TC_EAS2_SET_MCP_HV TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60218 NEW_VAL = XF108A04		
AIAF108A		End of Sequence		

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End of Procedure				