

SWA PAS Config File: IA-FCP-060.xls Author: daniel lakey	 
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Procedure Summary

Objectives

SWA PAS Config

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

HV Off

End of Procedure

HV On

Reference File(s)

Input Command Sequences

Output Command Sequences

AIAF060A

Referenced Displays

ANDs GRDs SLDs

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
21/02/2018		1	Updates from Feb 2018	dlakey	M7
12/03/2018	0.2				M7
27/04/2018		2	Updates following comments from SWA 25/04/2018	dlakey	M7
18/06/2018	0.3				M7
17/09/2018		2.01	Moved to PFM DB	dlakey	M7
18/03/2019		1			M7
16/08/2019		2			M7
20/01/2020		3			M7
08/05/2020		3	SOL_FCR-310 - SWA Procedure Overhaul	dlakey	M7
03/06/2020		4	SOL_FCR-393 - Fix AIAF016A timing & AIAF060A SOC Flag	dlakey	M7

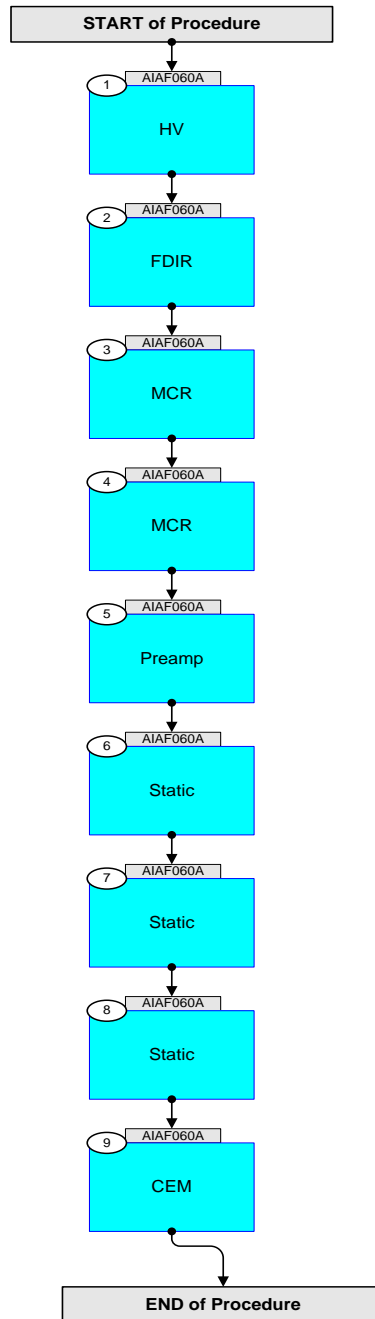
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solar orbiter



Procedure Flowchart Overview



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Step	Label/Time	Activity/Remarks/Branch	CK	Display
Beginning of Procedure				
Beginning of Sequence				
AIAF060A		SWA PAS Config SeqFlags [Crit/Plan/Stdalone/Sched] : NSYN Forced Subschedule : SWA (109) TimeTag type : B <u>Formal Parameter List</u> {FP} XF060A01 DefVal = 570 (NOMINAL_VAL) <hex>		
1		HV <i>Next step(s):</i> -> 2		
		Run config macro to ramp up HV		
	+00.00.00	Send SWA_TC_PAS_CONFIG ZIA58853 SWA_TC_PAS_CONFIG TC Control Flags: GBM IL DSE --Y NC ---		
2		FDIR <i>Next step(s):</i> -> 3		
		Enable 2 FDIR monitors		
	+00.11.00	Send SWA_TC_PARS_MON_EN ZIA58063 SWA_TC_PARS_MON_EN TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60452 NUM_OF_MON_ID = 2 <dec> PIA60449 MON_ID = P12_VHTOUT_MI <hex> PIA60449 MON_ID = M12_VHTOUT_MI <hex>		
3		MCR <i>Next step(s):</i> -> 4		
		Set the Master Control Register: CEM HV Enable State		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.30	Send SWA_TC_PAS_WR_MASTER_CTRL_REG ZIA58863 SWA_TC_PAS_WR_MASTER_CTRL_REG TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60343 REG_VAL = 1F <hex>		
4		MCR Next step(s): -> 5		
		Set the Master Control Register: CEMs HV ON central and periphery		
	+00.00.05	Send SWA_TC_PAS_WR_MASTER_CTRL_REG ZIA58863 SWA_TC_PAS_WR_MASTER_CTRL_REG TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60343 REG_VAL = 7 <hex>		
5		Preamp Next step(s): -> 6		
		Power on Preamps		
	+00.00.05	Send SWA_TC_PAS_WR_PREAMP_CTRL_REG ZIA58862 SWA_TC_PAS_WR_PREAMP_CTRL_REG TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA58062 PRE_AMP1 = ON (Def) PIA58063 PRE_AMP2 = ON (Def)		
6		Static Next step(s): -> 7		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
		Load Static table		
	+00.00.05	Send SWA_TC_PAS_LOAD_STATIC_TABLE ZIA58876 SWA_TC_PAS_LOAD_STATIC_TABLE TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60700 CHANNELTRON_CONF = 0 <hex> PIA60713 FIRST_ENERGY = 000008 <hex> PIA60705 ENERGY_NUMBER = 000040 <hex> PIA60712 FIRST_ELEV = 0 <hex> PIA60704 ELEV_NUMB = 000009 <hex> PIA60720 K_VALUE = 000001 <hex> PIA60721 N_VALUE = 000001 <hex>		
7		Static Next step(s): -> 8		
		Start Static scheme		
	+00.00.05	Send SWA_TC_PAS_WR_MAILBOX_CTRL ZIA58873 SWA_TC_PAS_WR_MAILBOX_CTRL TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60347 MBV_VAL = 00000001 <hex>		
8		Static Next step(s): -> 9		
		Stop Static scheme		
	+00.00.30	Send SWA_TC_PAS_WR_MAILBOX_CTRL ZIA58873 SWA_TC_PAS_WR_MAILBOX_CTRL TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60347 MBV_VAL = 000000FF <hex>		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
9		CEM Next step(s): -> END		
		Ramp up CEM voltage to the nominal value		
	+00.00.05	Send SWA_TC_PAS_HV_RAMP_UP ZIA58856 SWA_TC_PAS_HV_RAMP_UP TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60791 INIT_VALUE = 0 <hex> PIA60790 NOMINAL_VAL = XF060A01 PIA60792 STEP_VALUE = 29 <hex> PIA60793 HV_WAIT = 19 <hex>		
AIAF060A		End of Sequence		
End of Procedure				