

SWA Power On PAS
 File: IA-FCP-016.xls
 Author: daniel lakey



Procedure Summary

Objectives

Power On PAS

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

PAS off

End of Procedure

PAS on

Reference File(s)

Input Command Sequences

Output Command Sequences

AIAF016A

Referenced Displays

ANDs GRDs SLDs

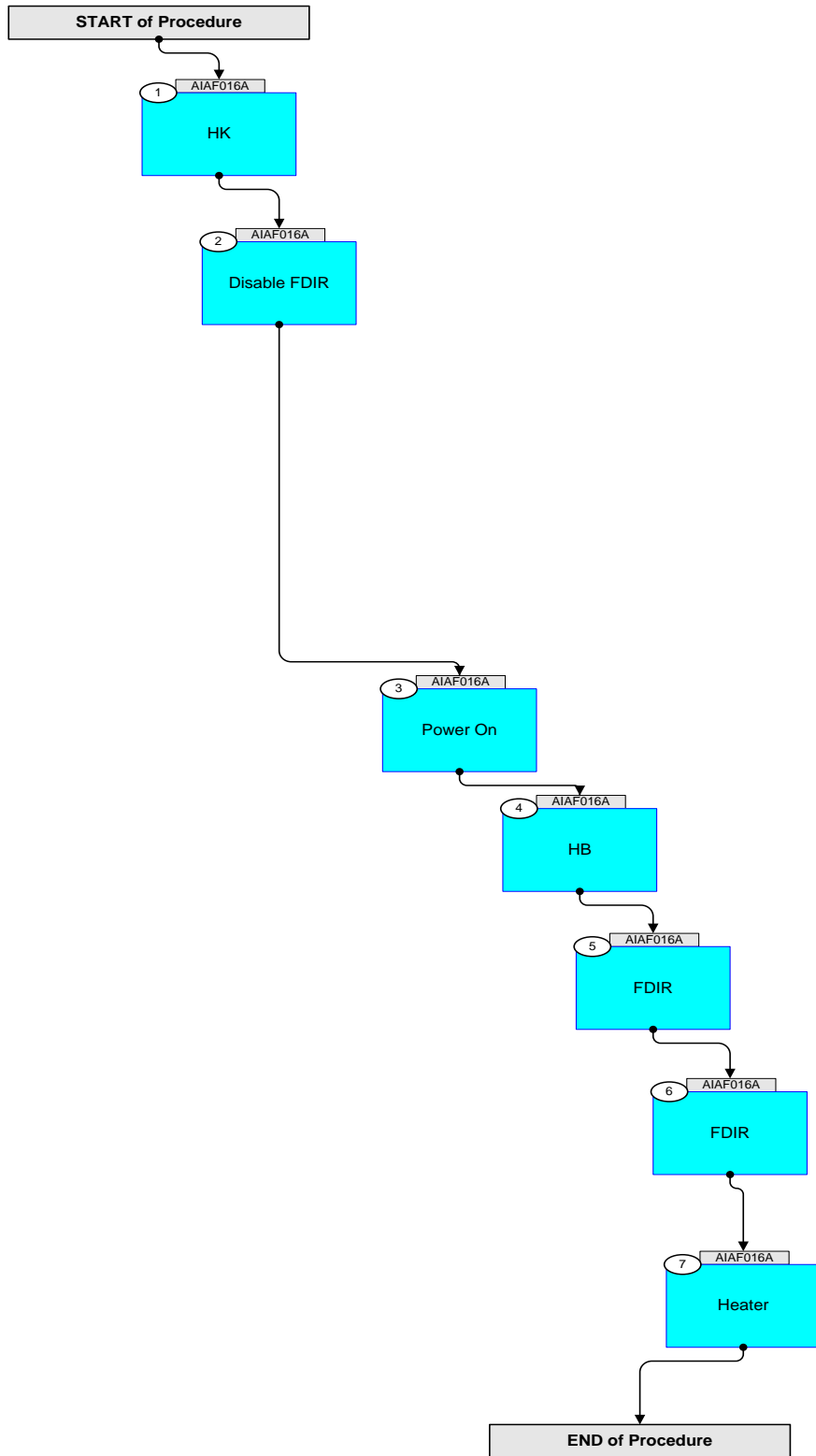
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
30/01/2018		0.01	move as we like it	dlakey	M7
21/02/2018		1	Updates from Feb 2018	dlakey	M7
12/03/2018	0.2				M7
02/05/2018		2	Updated to v3 of PAS ON procedure	dlakey	M7
18/06/2018	0.3				M7
17/09/2018		3	Updates post IGST-4_2	dlakey	M7
17/09/2018		3.01	Moved to PFM DB	dlakey	M7
18/03/2019	1				M7
16/08/2019	2				M7
15/01/2020		3.02	SOL_FCR-251 - Refresh SWA/SoloHI to fix clean-report issues 01320PFM	dlakey	M7
20/01/2020	3				M7
08/05/2020		4	SOL_FCR-310 - SWA Procedure Overhaul	dlakey	M7
03/06/2020		5	SOL_FCR-393 - Fix AIAF016A timing & AIAF060A SOC Flag	dlakey	M7
23/06/2020		6	SOL_FCR-400 - SWA PAS procedure overhaul	dlakey	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				
AIAF016A		SWA Power On PAS SeqFlags [Crit/Plan/Stdalone/Sched] : NSYN Forced Subschedule : SWA (109) TimeTag type : B		
1		HK <i>Next step(s):</i> -> 2		
		Enable PAS HK		
	+00.00.00	Send SWA_TC_HK_EN ZIA58050 SWA_TC_HK_EN TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA58050 TMSID = PAS_SENS_HK		
2		Disable FDIR <i>Next step(s):</i> -> 3		
		Disable all PAS FDIR monitors		
	+00.00.01	Send SWA_TC_PARS_MON_DIS ZIA58064 SWA_TC_PARS_MON_DIS TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60452 NUM_OF_MON_ID = 28 <dec> PIA60449 MON_ID = V_MON_C_MI <hex> PIA60449 MON_ID = V_MON_L_MI <hex> PIA60449 MON_ID = I_MON_C_MI <hex> PIA60449 MON_ID = I_MON_L_MI <hex> PIA60449 MON_ID = T_MON_C_MI <hex> PIA60449 MON_ID = T_MON_L_MI <hex> PIA60449 MON_ID = P24_VCEMOUT_MI <hex> PIA60449 MON_ID = P5_VCEMOUT_MI <hex>		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
		PIA60449 MON_ID = P12_VHTOUT_MI <hex> PIA60449 MON_ID = M12_VHTOUT_MI <hex> PIA60449 MON_ID = P3V_3_FPGA_OMI <hex> PIA60449 MON_ID = P1V_5_FPGA_OMI <hex> PIA60449 MON_ID = TEMP_DCDC_MI <hex> PIA60449 MON_ID = TEMP_FPGA_MI <hex> PIA60449 MON_ID = HK_IP24V_CEMMI <hex> PIA60449 MON_ID = HK_IP5V_CEMMI <hex> PIA60449 MON_ID = HK_IP12V_HTMI <hex> PIA60449 MON_ID = HK_IM12V_HTMI <hex> PIA60449 MON_ID = HK_I3V3_FPGAMI <hex> PIA60449 MON_ID = HK_I1V5_FPGAMI <hex> PIA60449 MON_ID = HK_IP28V_PRIMI <hex> PIA60449 MON_ID = HK_MHV_POSMI <hex> PIA60449 MON_ID = HK_MHV_NEGMI <hex> PIA60449 MON_ID = TEMP_HVPS_MI <hex> PIA60449 MON_ID = HK_IP28V_PRSCI <hex> PIA60449 MON_ID = PASampOverCurr <hex> PIA60449 MON_ID = PASSPWHB_MI <hex> PIA60449 MON_ID = PASMISSACK_MI <hex>		
3		Power On Next step(s): -> 4		
		Power on PAS		
	+00.00.02	Send SWA_TC_PAS_PWR_ON ZIA58858 SWA_TC_PAS_PWR_ON TC Control Flags: GBM IL DSE --Y NC ---		
4		HB Next step(s): -> 5		
		Enable PAS HB Monitor, Missing Ack Monitor and 28V Current Monitor - Standby		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.01.00	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 = 03 <hex> PIA60449 MON_ID = PASSPWHB_MI <hex> PIA60449 MON_ID = PASMISSACK_MI <hex> PIA60449 MON_ID = HK_IP28V_PRIMI <hex>		
5		FDIR Next step(s): -> 6		
		Disable PAS 28V Current Monitor - Standby		
	+00.00.30	Send SWA_TC_PARS_MON_DIS ZIA58064 SWA_TC_PARS_MON_DIS TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60452 NUM_OF_MON_ID = 01 <hex> (Def) PIA60449 MON_ID = HK_IP28V_PRIMI <hex>		
6		FDIR Next step(s): -> 7		
		Enable PAS 28V Current Monitor - Science		
	+00.00.01	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 = 01 <hex> (Def) PIA60449 MON_ID = HK_IP28V_PRSCI <hex>		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
7		Heater Next step(s): -> END		
		Set PAS operational heater		
	+00.00.01	Send SWA_TC_PAS_SET_OPEN_LOOP ZIA58947 SWA_TC_PAS_SET_OPEN_LOOP TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60848 HEATHER_STATUS = OFF PIA60849 DUTY_CYCLE = 0 <hex>		
AIAF016A		End of Sequence		
End of Procedure				