4.8_V2.1 TURN OFF DEA A (realtime version)

Last Revised: July 2, 2015
Filename: deaa_off

BRIEF FUNCTIONAL DESCRIPTION:
This is an "atomic" procedure which simply turns off the DEA side A. The instrument must not be in bakeout mode when this procedure is executed. The video boards should be powered off during this procedure. The "Enable" and "On" verifiers will only be valid if one side of the DPA is on.

The sequence of actions will be:

1. turn off and disable DEA power supply side A

ASSUMED INSTRUMENT STATE:
Assumes that the PSMC has power from the spacecraft.
The instrument MUST NOT be in bakeout mode.
The video boards should be powered down before executing this procedure.

SPECIAL INITIAL CONDITIONS:

OPERATIONAL CONSTRAINTS/CAUTIONS:

REFERENCES:

CHANGE HISTORY:

V1.2

- changed filenames from "turnoff_deaa" to "deaa_off"
- added text to explain the confusion with the logical verifiers

V1.3

- changed primary verifier to be the DEA +24 V supply
- changed TLM FMT to 1,2,4or6
- changed expected value of DEA A Input Voltage to 28.0–34.0 V

V2.0

- ACIS Team signed-off version, identical to previous version 1.3

V2.1

- Update expected 1DE28AVO range

Table 1: **TURN OFF DEA A (realtime version)(Page 1)**

Step #	Title (Revision 4.8_V2.1)	Time (mins)	Command Description	Command Mnemonic	Cmd EGSE	Seq Key	Telemetry Description	Telemetry Mnemonic
1	**Turn off DEA A**							
1.1	DEA Power A Off	1	DEA PS Off A	1DEPSAOF				1DEPSA
1.2	Disable DEA PS A	1	DEA PS A Dis	1DEPSADS			DEA A Dis	1DEPSAX
							DEA +24 V A	1DEP2AVO
							DEA Input V A	1DE28AVO
							DEA Input I A	1DEICACU
							DEA +6 V A	1DEP0AVO
							DEA -6 V A	1DEN0AVO
							DEA +15 V A	1DEP1AVO
							DEA -15 V A	1DEN1AVO
							DEA +28 V A	1DEP3AVO
	Total Time	2						

Table 1: **TURN OFF DEA A (realtime version)(Page 1)**

Step #	Expected Value	Units	Telemetry EGSE	Other Verifier	Crit	Description	Notes	RT Con	Tlm Fmt	Min Alt	SIM Pos
1											
1.1	OFF					Ignore if DPA unpowered			1,2,4,6		
1.2	DIS					Ignore if DPA unpowered			1,2,4,6		
	0	V			1						
	25.0–34.0	V			2	Expect DEA side A power at 0.0 W					
	0	A			2						
	0	V			2						
	0	V			2						
	0	V			2						
	0	V			2						
	0	V			2						

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