1.5_V2.0 TURN ON DA HEATER SIDE B

Last Revised: June 23,1999
Filename: dahtr_b_on

BRIEF FUNCTIONAL DESCRIPTION:
This is an "atomic" procedure which simply turns on the detector assembly heater side B. This heater controls the DA housing temperature to be -60 C.

The sequence of actions will be:

1. enable and turn on the DA heater side B
2. monitor the Camera Body and Warm Radiator temperature

ASSUMED INSTRUMENT STATE:

SPECIAL INITIAL CONDITIONS:

OPERATIONAL CONSTRAINTS/CAUTIONS:

REFERENCES:

CHANGE HISTORY:

V1.2

- added expected values of HW TLM verifiers in step 1.2
- added step 1.3 to monitor the Camera Body and Warm Radiator's temperatures
- added filename identification to top of procedure

V2.0

- ACIS Team signed-off version
- changed "Assumed Instrument State" to read nothing
- changed required TLM FMT to be 1,2,4or6
- changed comment in "Description" column in step 1.2

Table 1: **TURN ON DETECTOR ASSEMBLY HOUSING HEATER SIDE B**

Step #	Title (Revision 1.5_V2.0)	Time Req (m)	Command Description	Command Mnemonic	Telemetry Description	Telemetry Mnemonic	Expected Value	Units
1.0	Turn on DA Housing htr							
1.1	enable housing heater B	0.1	Housing Htr En B	1HHTRBEN	DA B ENB/DIS	1DAHTBEN	ENB	
1.2	turn on housing heater B	1	Housing Htr On B	1HHTRBON	DA B ON/OFF	1DAHTBON	ON	
					DA Htr +28V INPUT B	1DAHHBVO	28.0–32.0	V
					DA Htr Output V B	1DAHBVO	28.0–32.0	V
					DA Htr Current B	1DAHBCU	~ 2.0	A
1.3	monitor camera body temp	30			Camera Body T A	1CBAT	-60	C
					Camera Body T B	1CBBT	-60	C
					Warm Radiator T A	1WRAT	-84	C
					Warm Radiator T B	1WRBT	-84	C
	Total Time	31.1						

Table 2: (CONT) **TURN ON DETECTOR ASSEMBLY HOUSING HEATER SIDE B**

Step #	Telemetry EGSE	Other Verifier	Crit	Description	Notes	RT Con	Tlm Fmt	Min Alt	SIM Pos
1.0									
1.1			2	only valid if one side of the DPA is on		Y	1,2,4or6		
1.2			2	only valid if one side of the DPA is on		Y	1,2,4or6		
			2	values shown are max voltage and current which are					
			2	only obtained while heating up to -60 C;					
			2	power drops as a steady state is reached.					
1.3			2	survival is -75.5 C, so temp should		P	1,2,4or6		
			2	be between -75.5 and -60 C					
			2	Warm radiator temperature will					
			2	rise as the camera body warms up.					