5.10_V1.1 PARTIAL BAKEOUT, SET FP TO +20 C

Last Revised: July 16,1999
Filename: bakeout_p20

BRIEF FUNCTIONAL DESCRIPTION:
This is a contigency procedure which regulates the focal plane temperature to +20 C. **THE INSTRUMENT IS LEFT IN A STATE WITH THE FOCAL PLANE BAKEOUT ENABLED AND THE FOCAL PLANE TEMPERATURE ELEVATED TO -50 C.** The DA heater is NOT turned on by this procedure.

The sequence of actions will be:

1. enable FP bakeout and start heating FP to +20 C
2. monitor cold radiators' temperatures

ASSUMED INSTRUMENT STATE:
Assumes the instrument is in the shuttle bay, DPA A and DEA A are on.

SPECIAL INITIAL CONDITIONS:
Assumes that only TLM FMT 6 is available.

OPERATIONAL CONSTRAINTS/CAUTIONS:
The instrument is left in a state with the focal plane bakeout enabled and the focal plane temperature elevated to +20 C.
CARD ACIS-001

REFERENCES:

CHANGE HISTORY:

V1.0

- Initial release

V1.1

- Changed command in step 1.5 to "WSFTPOS_20"

Table 1: **Partial Bakeout Procedure (Focal Plane Temperature to +20 C)**

Step #	Title (Revision 5.10_V1.0)	Time Req (m)	Command Description	Command Mnemonic	Telemetry Description	Telemetry Mnemonic	Expected Value	Units
1.0	Set FP Temperature to +20 C							
1.1	verify power consumption	10			DEA Input I	1DEICACU	0.60–0.78	A
					DEA Input V	1DE28AVO	27.0-35.0	V
1.2	Set warm boot flag off	1	DPA Cold Boot	1WRMBTSB(0)				
1.3	Upload bakeout patch	1	writeBep	WBBOEN_ENB				
1.4	Enable the FP BO htr	1	changeConfigSetting	WSBAKENABL				
1.5	Set FP temp to +20 C	1	changeConfigSetting	WSFTNEG_20				
2.0	Monitor Cold Radiator Ts							
2.1	Check Cold Radiator Temps				Cold Radiator T A	1CRAT	$\sim +10$	C
					Cold Radiator T B	1CRBT	$\sim +10$	C
	Total Time	14						

Table 2: (CONT) **Partial Bakeout Procedure (Focal Plane Temperature to +20 C)**

Step #	Telemetry EGSE	Other Verifier	Crit	Description	Notes	RT Con	Tlm Fmt	Min Alt	SIM Pos
1.0									
1.1			2	DEA A Power should be 21 $\pm$ 3 W,		Y	6		
				current is noisy so an avg. is needed		Y	6		
1.2				disable Warm boot if BEP watchdogs		Y	6		
1.3	Check cmdResult == OK commandEcho 101		A	Enable the "enable"		Y	6		
1.4	Check cmdResult == OK commandEcho 114		A			Y	6		
1.5	Check cmdResult == OK commandEcho 225		A	Set desired FP temp to +20 C, FP bakeout htr comes on.		Y	6		
2.0									
2.1				cold radiator temp should stabilize			6		