1.28_V2.0 SET FOCAL PLANE TEMPERATURE TO -121 C

Last Revised: August 1,1999 Filename: setfp_m121

BRIEF FUNCTIONAL DESCRIPTION:

This is an "atomic" procedure which simply sets the focal plane temperature to -121 C. IT DOES NOT DISABLE THE FOCAL PLANE BAKEOUT.

The sequence of actions will be:

1. load the ACIS SW command packet which sets the temperature and dump the system configuration.

ASSUMED INSTRUMENT STATE:

Assumes that at least one side of the DPA and DEA A are on and the flight SW is running.

SPECIAL INITIAL CONDITIONS:

Assumes that the contamination environment allows the focal plane to be cooled to -121 C.

OPERATIONAL CONSTRAINTS/CAUTIONS:

THIS PROCEDURE DOES NOT DISABLE THE FOCAL PLANE BAKEOUT HEATER. The focal plane must not be cooled below the dewpoint of water if the CCD are powered on. The focal plane should not be cooled if the spacecraft is still outgassing significantly and there is a path for the contaminants to flow to the focal plane.

REFERENCES:

CHANGE HISTORY:

V2.0

• Initial version.

Table 1: SET THE FOCAL PLANE TEMPERATURE TO -121 C

Step	Title	Time	Command	Command	Telemetry	Telemetry	Expected	Units
#	(Revision $1.28_V2.0$)	Req (m)	Description	Mnemonic	Description	Mnemonic	Value	
1.0	Drop FP to -121 C							
1.1	set FP temp to -121 C	2	${\bf Change Config Setting}$	WSFTNEG121				
1.2	dump system config.	0.1	$\operatorname{dumpSysConfig}$	RS_0000001				
1.3	Monitor FP temp	30						
	Total Time	32.1						

 ${\rm Table\ 2:\ (CONT)\ SET\ THE\ FOCAL\ PLANE\ TEMPERATURE\ TO\ -121\ C}$

Step	Telemetry	Other	Crit	Description	Notes	RT	Tlm	Min	SIM
#	EGSE	Verifier				Con	Fmt	Alt	Pos
1.0									
1.1	$Check\ cmdResult == OK$		1			Y	1 or 2		
	commandEcho 1220								
1.2	$Check\ cmdResult == OK$		В			Y	1 or 2		
		commandEcho 66							
1.3	dea House keeping Data		A	time depends on starting temp		Р	1 or 2		