AXAF COMMAND ACTION PROCEDURE

CAP #: 625 Rev C
DATE: 17 July 2000

ORIGINATOR: Plucinsky
COMMANDS CHECKED BY:
Time of CAP Execution (GMT): 2000:195:18:30

DESCRIPTION/RATIONALE

This edited CAP is an attempt to record the as-run CAP. CAP 632 was the "master CAP" which called CAP 625. CAP 634 was used to stop the science run and to clean up. CAP625 was run one day earlier than expected in a surprising, quiet radiation environment on day 195 during the titantic solar storm of July 13th and 14th, 2000.

This CAP executes the seventh test of the new "Squeegy" mode on the S0 CCD. The plan is for two separate science runs.

- S0 2 row Squeegy, 8 row exclude window, initial frame flushes, on-chip summing, parallel transfer time of $40\mu s$ of the imaging array rows into the framestore array
- S0 NO Squeegy control run, 8 row exclude window

This Squeegy run contains the initial frame flushes to remove the bias instability.

This test was conducted during a period in which the SIs were safed and the daily load was halted during day 195. The science run was started and let run over the COM outtage. The science run was terminated by CAP 634.

RESTRICTIONS/WARNINGS/NOTES/SCHEDULE REQT:

This commanding will be interleaved upon the daily load. There should be no potential conflicts except with ACIS (see discussion above), but the operators should be cognizant nevertheless. The ACIS commanding should begin as soon as possible if the focal plane temperature and radiation environment permit. The second science run (normal CTI on S0 alone) will be stopped by a stopScience from the daily load.

STEP	INSTRUCTIONS (Command/Script)	RESPONSE (TLM Verifier)
1	Uplink Loads:	
	1A_WS007_164.CLD	7021872
	1A_WS041_252.CLD	50391DC
	1A_XB000_250.CLD	417494C
	1A_XB001_251.CLD	A0E1874
	1A_WB00C_134.CLD	E5B0858
	1A_WB009_133.CLD	7F9FFE4
	1A_WB013_135.CLD	FBCA8F7
	1A_WB014_136.CLD	2B4479A
	1A_WT058_137.CLD	3C5FF7A
	1A_W2010_159.CLD	BA08097
	1A_XT000_190.CLD	C421014
	1A_RS000_207.CLD	4022412
	1A_RH000_151.CLD	601EE12

	1A_AA000_191.CLD	502066E
	1A_RYFS0_211.CLD	F423E81
	1A_RZFS0_217.CLD	4424581
	1A_WT04F_139.CLD	50E019C
2	ACIS informs OC when FP temperature and EPHIN rates are appropriate to start the first run ($\sim 195:18:15$).	
3	update OBSID to 62876	
4	Enable and Activate SCS 164	WSVIDALLDN (cmdId = 1541)
5	Enable and Activate SCS 252	WSPOW0103F (cmdId = 2163)
6	Enable and Activate SCS 250	executeBep, XB1SLOMO02 (cmd ID = 2166)
7	Enable and Activate SCS 251	executeBep, XB1SLOMO03 (cmd ID = 2160)
8	Enable and Activate SCS 134	writeBep, WB00SQUEG3 (cmdId = 2967)
9	Enable and Activate SCS 133	writeBep, WB00SQUEG2 (cmdId = 2892)
10	Enable and Activate SCS 135	writeBep, WBTSTSQG15 (cmdId = 3077)
11	Enable and Activate SCS 136	writeBep, WBTSTSQG16 (cmdId = 3078)
12	Enable and Activate SCS 137	loadTeBlock, WT00372014 (cmdId = 3070)
13	Enable and Activate SCS 159	load2dBlock, W200047014 (cmdId = 3084)
14	Enable and Activate SCS 190	startScience (cmdId = 58)
15	If execution fails (immediate *scienceReport* with abnormal *terminationCode*), skip to step 24.	
16	Enable and Activate SCS 207	bepReadReply/Config (cmdId = 66)
17	Enable and Activate SCS 151	bepReadReply/Huffman (cmdId = 68)
18	ACIS confirms receipt of bias and data	dataTeBiasMap (cmdId = *any*)
19	ACIS confirms *fepTimestamp* increment of 0x2dfa8 (188328 decimal) per exposure	exposureTeFaint (cmdId = *any*)
20	collect data for $\sim$ 30.0ks	
35	ACIS confirms normal science run	
36	Clear and Disable SCSs 164, 252, 250, 251, 134, 133, 135, 136, 137, 159, 190, 207, 151, 191, 211, 217, 139	
37	LOS 195:19:15	
38	science run terminated by CAP 634	

Approved:

Subsystem Engineer: Flight Director:
TST Manager/Lead: Program Manager:
SOT Lead: