AXAF COMMAND ACTION PROCEDURE

CAP #:718B
DATE: 3 Apr 2001

ORIGINATOR: Plucinsky
COMMANDS CHECKED BY: Grant, Buehler, LaMarr
Time of CAP Execution (GMT): 2001:094:19:00

DESCRIPTION/RATIONALE

Perform an ACIS CTI measurement on the ACIS-S array in 3x3 Faint mode as part of the process of recovering from the SI safing on day 2001:093 due to an autonomous SCS 107 trip. We expect to COM at 2001:094:19:00. After the FOT has taken all necessary actions to re-configure the spacecraft, we will use the remaining time to execute a science run and expect to end at 2001:094:21:15.

RESTRICTIONS/WARNINGS/NOTES/SCHEDULE REQT:

This CAP assumes that the FOT has taken all actions necessary to recover from the SCS 107 event. This CAP cannot be executed unless the recovery actions have been completed. This CAP assumes that the SIM is at HRC-S, RADMON is disabled (this is not a requirement, but the expected state), and the spacecraft is in FMT 2. This CAP sets the OBSID to a contingency OBSID of 62862. We expect the load will contain the commands to prepare ACIS for entry into the radiation belts, however, they are included in steps 15 and 16 as contingency steps in case we must stop the science run sooner than expected.

STEP	INSTRUCTIONS (Command/Script)	RESPONSE (TLM Verifier)
1	ACIS monitors EPHIN rates, rates must be below 1/3 of SCS 107 limits to start a science run.	
2	Update OBSID to 62862	
3	Verify spacecraft in TLM FMT 2	
4	Uplink Loads:	
	1A_WS007_164.CLD	7021872
	1A_WS00F_233.CLD	A03BC6B
	1A_AA000_191.CLD	502066E
	1A_XT000_190.CLD	C421014
	1A_RS000_207.CLD	4022412
	1A_RH000_151.CLD	601EE12
	1A_WT048_137.CLD	1481FD6
5	Enable and Activate SCS 164	WSVIDALLDN (command ID = 1541)
6	Enable and Activate SCS 233	WSPOW3F03F (command ID = 360)
7	Enable and Activate SCS 137	WT0021C014 (command ID = 2046)
8	Enable and Activate SCS 190	XTZ0000005 (command ID = 58)
9	Enable and Activate SCS 207	RS_0000001 (command ID =66)
10	Enable and Activate SCS 151	RH_0000001 (command ID = 68)
11	ACIS confirms science run is progressing nominally	
12	collect data for ~ 2 hours	
13	ACIS monitors EPHIN rates, shut down if rates exceed 1/3 of SCS 107 limits	
14	Enable and Activate SCS 191 at $\sim 21:15$	stopScience (cmdId = 1539)

15	ACIS confirms normal end of science run	
16	*If necessary,* Activate SCS 164	WSVIDALLDN (command ID = 1541)
17	*If necessary,* Activate SCS 207	RS_0000001 (command ID =66)
18	Clear and Disable SCSs 164,233,137,190,207,151,191	

Approved:

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