AXAF COMMAND ACTION PROCEDURE

CAP # 923:
DATE: 14 Jul 2004

ORIGINATOR: Joseph DePasquale
COMMANDS CHECKED BY: Paul Plucinsky
Time of CAP Execution (GMT): 2004:197:19:00

DESCRIPTION/RATIONALE

This CAP will dump diagnostic parts of the ACIS Back-End processor memory to provide additional information in the investigation of an anomaly which caused a premature termination of the science run during OBSID 5008. We plan to dump the BEP D-cache, BEP I-cache, EEPROM, and bulk memory. If the dumps look complete, we will then warm boot the BEP processor and re-start DEA Housekeeping. If the dumps look incomplete, due to TLM dropouts, we may decide to re-dump the data. After we have warm-booted the BEP, we will dump the memory contents again to provide the flight SW team with a version of these memories right after startup of the flight SW.

RESTRICTIONS/WARNINGS/NOTES/SCHEDULE REQT:

FMT 2 is required. We have planned to run this CAP just after the descending leg, ACIS diagnostic run and before the PERIGEE pass on day 197 19:00 GMT. We do not expect the CAP to interfere with the JUL1204 load running on the spacecraft, but operators should still be alert. The last ACIS command in the JUL1204 load before PERIGEE on day 197 occurs at 197:19:05:08; we will wait until this command has been run to execute the first ACIS commands in step 3.

STEP	INSTRUCTIONS (Command/Script)	RESPONSE (TLM Verifier)
	EXECUTE:	
1	Uplink Loads:	
	1A_RBDCA_201.CLD	80A4095
	1A_RBICA_202.CLD	B0A4216
	1A_RB000_196.CLD	40E372D
	1A_RB002_189.CLD	B0C352F
2	Verify spacecraft in telemetry Format 2.	
3	Enable and Activate SCS 201	RB_D_CACHE (command ID = 2022)
4	ACIS confirms complete dump, expect 90 s.	
	If severe dropouts, (Enable if needed) and Activate SCS 201	
5	Enable and Activate SCS 202	RB_I_CACHE (command ID = 2025)
6	ACIS confirms complete dump, expect 5 min	
	If severe dropouts, (Enable if needed) and Activate SCS 202	
7	Enable and Activate SCS 196	RBROMDUMP1 (command ID = 306)
8	ACIS confirms complete dump, expect 5 min	
	If severe dropouts, (Enable if needed) and Activate SCS 196	
9	Enable and Activate SCS 189	RB_BEPBULK (command ID = 4441)
10	ACIS confirms complete dump, expect 5 min	
	If severe dropouts, (Enable if needed) and Activate SCS 189	
11	Execute SOP 61070 Warm Boot BEP	ACIS verifies
12	SOP 61010 Start DEA Hkp	ACIS verifies
13	Enable and Activate SCS 201	RB_D_CACHE (command ID = 2022)

14	ACIS confirms complete dump, expect 90 s.	
	If severe dropouts, (Enable if needed) and Activate SCS 201	
15	Enable and Activate SCS 202	RB_I_CACHE (command ID = 2025)
16	ACIS confirms complete dump, expect 5 min	
	If severe dropouts, (Enable if needed) and Activate SCS 202	
17	Enable and Activate SCS 196	RBROMDUMP1 (command ID = 306)
18	ACIS confirms complete dump, expect 5 min	
	If severe dropouts, (Enable if needed) and Activate SCS 196	
19	Enable and Activate SCS 189	RB_BEPBULK (command ID = 4441)
20	ACIS confirms complete dump, expect 5 min	
	If severe dropouts, (Enable if needed) and Activate SCS 189	
21	Clear SCSs 202, 201, 196, and 189	

Approved:

Subsystem Engineer:
TST Manager/Lead:
SOT Lead:

Flight Director:
Program Manager: