

# AXAF COMMAND ACTION PROCEDURE

CAP # 1033:  
DATE: 9 April 2007

ORIGINATOR: Royce Buehler  
COMMANDS CHECKED BY: Joseph DePasquale  
Time of CAP Execution (GMT): 2007:101:17:45

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## DESCRIPTION/RATIONALE

This CAP will dump flight software from the ACIS Back-End processor memory to provide additional information in the investigation of an anomaly which caused three Front-End Processors to reset during Obsid 7647. We plan to dump the BEP I-cache and BEP D-cache, as well as the patchlist. If the dumps look incomplete, due to TLM dropouts, we may decide to re-dump the data.

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## RESTRICTIONS/WARNINGS/NOTES/SCHEDULE REQ:

FMT 2 is required. We have planned to run this CAP during the ascending leg, after the PERIGEE pass on day 101, and before the ACIS diagnostic run at 18:47 GMT. We do not expect the CAP to interfere with the APR0907 load running on the spacecraft, but operators should still be alert. The first ACIS command in the APR0907 load before CTI on day 101 occurs at 101:18:45:50; we will have an hour to complete the CAP, which should not require more than twenty minutes.

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STEP	INSTRUCTIONS (Command/Script)	RESPONSE (TLM Verifier)
	EXECUTE:	
1	Uplink Loads: 1A_RBDCA_201.CLD 1A_RBICA_202.CLD	80A4095 B0A4216
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, repeat from Activate in step #3	
5	Enable and Activate SCS 202	RB_I_CACHE (command ID = 2025)
6	ACIS confirms complete dump, expect 5 min If severe dropouts, repeat from Activate in step #5	
7	Clear SCS 202	
8	Uplink Load: 1A_RU000_202.CLD	3022012
9	Enable and activate SCS 202	RU_0000001 (command ID = 65)
10	ACIS compares dumped patchlist to expected values. If there were dropouts, repeat from from Activate in step #9.	
11	Clear SCSs 202 and 201	

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Approved:

Subsystem Engineer:  
TST Manager/Lead:

Flight Director:  
Program Manager:

SOT Lead: