# AXAF COMMAND ACTION PROCEDURE 

CAP \#:952A
DATE: 01/19/05

ORIGINATOR: Paul Plucinsky
COMMANDS CHECKED BY:
Time of CAP Execution (GMT): 2005:020:03:45:00.00

## DESCRIPTION/RATIONALE

Command ACIS to execute a CTI (I-array) measurement using an RTS.

## RESTRICTIONS/WARNINGS/NOTES/SCHEDULE REQT:

If this science run is interrupted by a science mission resumption load, that load must contain commands to terminate, disable and clear SCS 131, as well as two ACIS stopScience commands 10 seconds apart to terminate the ACIS CTI measurement.
This CAP can NOT be run if there is a maneuver load already uplinked which has not yet run to completion.
EPHIN rates are $1 / 3$ of the SCS107 trigger levels.
RADMON will be enabled by this CAP.
SCS107 will be enabled by this CAP.
The TLM FMT will be changed to FMT 2 by this CAP if necessary.
The OBSID will be set to 62833 in this CAP.
This CAP must be activated no later than the end of the scheduled COMM pass at 2005:020:04:45, assuming there are no other contingency operations in progress at that time. Thus, the commanding will end no later than 2005:021:22:23:20.000. [Absolute time of RADMON DISABLE: 2005:021:19:45:00.000, the nominal time of RADMON disable in the load is 2005:022:01:28]
The CLD activated in Step 8 will disable RADMON 39 hours later (Step 12), execute an ACIS StopScience command 2 hrs 38 mins 20 secs after RADMON has been disabled (Step 13 ), and prepare ACIS for radiation zone passage (Step 14) unless this SCS is terminated by commands in a science resumption load. (Steps 12-14 occur while out of communication contact.)
This CAP uses a CLD (1A_CTI_39HR_131.CLD) which bundles together 10 ACIS commands.
The checksum of this CLD is 410CE8E.
SCS 131 will need to be disabled and cleared at the first available COMM opportunity after Step 14 if this CAP IS NOT INTERRUPTED BY A RESUMPTION LOAD.


COSCS131S = A
WSVIDALLDN (command ID $=1541$ )
WSPOW0CF3F (command ID = 359)
WT00216024 (command ID $=4536$ )
XTZ0000005 (command ID $=58$ )
RS_0000001 (command ID $=66$ )
RH_0000001 (command ID $=68$ )
ACIS confirms normal science run remotely (calls the OC/CC cell phone at 617-594-3640 or the "black phone" at 617-496-7245).
(NOTE: The OC/CC should monitor the DPA input currents [1DPICACU/1DPICBCU; should rise to $1.45 / 1.24 \mathrm{~A}$ ] as well as the 1STAT1ST bit [it should change from 1 to 0 ] to ascertain whether the commands got to ACIS and if a science run is in progress.)
10 IF THIS CAP IS INTERRUPTED BY A SCIENCE RESUMPTION LOAD, THEN that load must contain commands to terminate, disable and clear SCS 131, as well as two ACIS stopScience commands seperated by 10 seconds to terminate the ACIS CTI measurement. SKIP to end of the CAP after verifying load has terminated and cleared SCS 131.
11 IF THIS CAP IS NOT INTERRUPTED BY A SCIENCE RESUMPTION LOAD, proceed to Step 12.
12 Verify that RADMON is disabled 39 hours after activation of SCS 131 in Step 8
13 Verify that StopScience occurs 2hrs 38mins 20secs after Step 12
14 Verify that the triplet of ACIS ERAD commands begins 10 seconds after Step 13

WSVIDALLDN (command ID = 1541)
RS_0000001 (command ID $=66$ )
15
OORMPDS

AA00000000 (command ID $=1539$ )

AA00000000 (command ID $=1539$ )

Clear and disable SCS 131 at first comm opportunity $\quad$ COSCS131S $=\mathrm{D}$
after the SCS slot has become inactive IF A RESUMPTION LOAD HAS NOT INTERRUPTED THIS CA

Approved:
Subsystem Engineer:
Flight Director:
FOT Manager:
Program Manager:
SOT Lead:

