

ACIS Verification Summary Report

Specification: ACIS Contract End Item Specification

Requirement Number/Title: 3.2.8 Safe Modes (VRSD 3.2.8-3)

Requirement Statement: Also ACIS will be capable of having all power turned off by command, and the survival temperature limits of ACIS maintained by SIM controled heaters. This mode once initiated has no time limit, however once power is reinstated, by command, to the ACIS instrument a default system configuration only (ie. parameter, mode tables) will be available until new table configurations can be loaded via. the space craft command system.

Verification Method: DEMONSTRATION

Procedure Number: 36-01301.02 AS PART OF 36-01306

Configuration:

Thermal/Vacuum TESTING OF COMPLETE EXPERIMENT.

Cycle Time:

Verification Discussion/Results:

ACIS IS DESIGN TO BE COMMANDED TO A POWERED OFF STATE, MAINTAINING LESS THAN 6W OF CURRENT DRAIN TO RUN THE (POWER ON) COMMAND RECEIVER CIRCUITS.

DURING COLD SURVIVAL SOAK, ACIS TEMPERATURES WERE MAINTAINED SOLELY BY POWER SUPPLIED TO THE SURVIVAL HEATERS.

DURING THIS AND OTHER TESTING ACIS IS TYPICALLY POWERED BACK UP INTO ITS DEFAULT, SCIENCE-IDLE STATE USING DEFAULT CONFIGURATIONS, WAITING FOR APPROPRIATE COMMANDS WHICH WOULD INITIATE A SCIENCE RUN.


ACIS Cognizant Engineer

5/27/97
Date