

ACIS Verification Summary Report

Specification:	ACIS Contract End Item Specification
Requirement Number/Title:	3.2.8 Safe Modes (VRSD 3.2.8-2)
Requirement Statement: This mode once initiated will not require ground intervention for 72 hours or more and will be implemented in such way as to minimize the impact on the DSN and mission timeline when transitioning from safe mode back to normal operating mode.	
Verification Method:	ANALYSIS / DEMONSTRATION
Procedure Number:	-
Configuration:	AS OPERATED AT XRPCF & FLIGHT
Cycle Time:	
Verification Discussion/Results:	
<p>FROM THE EXPERIMENT'S POINT OF VIEW THERE ARE 3 DIFFERENT SAFE MODES:</p> <p>a) <u>NO DATA, BUT IN THERMAL CONTROL</u> IN THIS CASE A SINGLE "START SCIENCE" SERIAL DIGITAL COMMAND IS SUFFICIENT TO RESUME NORMAL OPERATIONS</p> <p>b) <u>MEMORY SAVE, NO THERMAL CONTROL</u> ALTHOUGH ONLY A HANDFULL OF SERIAL DIGITAL COMMANDS WOULD BE NECESSARY TO RESUME NORMAL SCIENCE OPERATIONS, THERMAL STABILITY WOULD TAKE AT LEAST AN HOUR TO BE REESTABLISHED.</p> <p>c) <u>ALL POWER OFF</u> AN UPLOAD ON ORDER OF 6KB WOULD BE REQUIRED TO (RE)INSTALL FLIGHT SOFTWARE PATCHES AND LOAD PARAMETER BLOCKS SUITABLE FOR THE NEXT SCIENCE OBSERVATION. AGAIN, AT LEAST AN HOUR WILL BE REQUIRED TO ACHIEVE A MODICUM OF THERMAL STABILITY.</p>	



ACIS Cognizant Engineer

6/12/97

Date