

## ACIS Verification Summary Report

Specification:	ACIS Contract End Item Specification
Requirement Number/Title:	3.3.3.2.3.2 Lightning Induced Failure Protection (VRSD 3.3.3.2.3.2)
Requirement Statement:	ACIS shall be designed such that a lightning induced failure in ACIS shall not propagate into an AXAF-I or Orbiter catastrophic failure.
Verification Method:	ANALYSIS OF DESIGN
Procedure Number:	NA
Configuration:	
Cycle Time:	
Verification Discussion/Results:	
<p>A LIGHTNING-INDUCED FAILURE WITHIN ACIS WOULD, IN THE WORST CASE, CAUSE AN ELECTRICAL SHORT TO DEVELOPE BETWEEN POWER LINES AND CHASSIS OR CIRCUIT GROUND (WHICH ARE TIED TOGETHER WITHIN EACH ACTIVE BOX). IN THE CASE OF SECONDARY VOLTAGES, SHORT-CIRCUIT PROTECTION BUILT INTO THE PSMC WOULD TAKE THE OFFENDING CIRCUIT OFF LINE. IN THE CASE OF PRIMARY 28VDC (WHERE THE RETURN CURRENT WOULD BE CARRIED BY OBSERVATORY-SUPPLIED FAULT WIRES) THE OBSERVATORY-SUPPLIED FUSES PREVENT FAILURE PROPAGATION.</p>	

  
 ACIS Cognizant Engineer

5/28/97  
 Date