

# ACIS Verification Summary Report

**Specification:** ACIS Contract End Item Specification

**Requirement Number/Title:** 3.7.4.5.4 Cross Strap of Redundant Systems (VRSD 3.7.4.5.4)

**Requirement Statement:** The instrument shall be designed so that activation of redundant internal systems shall not require reconfiguration of observatory electrical and/or data systems.

**Verification Method:** REVIEW OF DESIGN

**Procedure Number:** N/A

**Configuration:** FULL FLIGHT CONFIGURATION

**Cycle Time:**

## Verification Discussion/Results:

CONTROL OF REDUNDANT FUNCTIONS RESIDES IN THREE DIFFERENT PLANS;

- a) PSMC REDUNDANT FUNCTIONS ARE SELECTED BY PULSE COMMANDS FROM THE RCTV AND ARE FULLY CROSS-STRAPPED.
- b) DPA REDUNDANT FUNCTIONALITY IS LIMITED TO THE SELECTION OF THE CONTROLLING BACK END PROCESSOR. THIS SELECTION IS COMMANDED BY A (CROSS-STRAPPED) SERIAL DIGITAL COMMAND FROM THE RCTV.
- c) DEA REDUNDANT FUNCTIONALITY IS HANDLED AT THE INTERFACE LEVEL BY HAVING REDUNDANT BOARDS HARDWIRED TO THE REDUNDANT PSMC POWER SUPPLIES. OTHER REDUNDANT FUNCTIONS ARE CONTROLLED BY SOFTWARE COMMANDS ORIGINATING IN THE (REDUNDANT) BEP.

  
ACIS Cognizant Engineer

5/27/97  
Date