ACIS Verification Summary Report

Specification:	ACIS Contract End Item Specification
Requirement Number/Title:	3.3.3.1.1.3Cable Shielding

Requirement Statement: All ACIS electrical wiring not contained within an electrically conductive enclosure shall be shielded in accordance with paragraph 3.5.2.3 of the Observatory to Science Instrument ICD where possible.

Verification Method:	Validation of Records

Procedure Number:

Configuration:

Cycle Time:

Verification Discussion/Results:

External ACIS wiring cables and harnesses are designed to be shielded in accordance with paragraph 3.5.2.3 of the Observatory to Science Instrument ICD. This requirement is stated on the cable harness assembly drawings and the assembly traveler. The assembly drawings are reviewed for compliance with requirements before the drawings are released into the configuration control system. Cable harness assemblies are inspected during fabrication for compliance with applicable requirements. After assembly is completed, as part of the final inspection, the work order traveler is reviewed to insure that all materials are correct and all assembly operations and inspections are completed and signed by the responsible person(s).

Brian Klatt 5/15/97

ACIS Cognizant Engineer Date

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Requirement Number/Title:	3.3.3.1.1.3 Cable Shielding

Requirement Statement: All ACIS electrical wiring not contained within an electrically conductive enclosure shall be shielded in accordance with paragraph 3.5.2.3 of the Observatory to Science Instrument ICD where possible.

Verification Method:	**Review of Design**

Procedure Number:

Configuration:

Cycle Time:

Verification Discussion/Results:
Supplement to 36-01510.135 previously submitted by MIT

The W1 and W2 PTS harnesses are overbraid shielded between the origin at the PSMC to the DEA, DPA and Venting Subsystem. Wiring to the Detector Assembly external surfaces exit the W1 and W2 overbraid shielding after connection to the Venting Subsystem. These wires are contained within the Support Structure which is an electrically conductive enclosure. Except for shielding of Housing Heater thermistors wires, all shielding is circumferentially terminated at the connector backshells in accordance with the requirements of ICD IF1-20. Housing Heater thermistor wire shields are circumferentially terminated at the PSMC, only, to accommodate thermal leakage requirements for the housing.

Larry Kamble 5/30/97

ACIS Cognizant Engineer Date