

ACIS Verification Summary Report

Specification:	AXAF Observatory to Science Instrument ICD (IF1-20)
Requirement Number/Title:	3.3.1.1.1.3.2 ACIS Radiator Thermal Interfaces (VRSD 3.3.1.1.1.3.2)

Requirement Statement: For thermal analysis each radiator standoff shall each be assumed to have a conductance of 0.00064 ± 0.0002 W/°C.

Verification Method: Analysis

Procedure Number: N/A

Configuration:

ACIS Instrument Installed in ISIM

Cycle Time: N/A

Verification Discussion/Results:

The current thermal models used by both ACIS and the SIM uses a conductance of 0.0005 Watts/°C for each of the 8 radiator standoffs. The previously assumed conductance was .00064 Watts/°C with .8 inch long standoffs. However, the flight standoff height was increased from .8 inches to .95 inches which reduced the conductance to 0.0005 Watts/°C. In either case, the requirement of 0.00064 ± 0.0002 Watts/°C per standoff has been met. Therefore the requirements of paragraph of 3.3.1.1.1.3.2 have been satisfied.

 5/28/97

 ACIS Cognizant Engineer Date