

ACIS Verification Summary Report

Specification:	AXAF Observatory to Science Instrument ICD (IF1-20)
Requirement Number/Title:	3.3.1.1.1.3.3 ACIS Radiator Thermal Interfaces (VRSD 3.3.1.1.1.3.3)
Requirement Statement: MLI blankets between the warm radiator and the SIM + Z panel shall be provided by ACIS and have the following net emittance $0.005 \leq e^* \leq 0.025$.	
Verification Method:	Analysis and Test
Procedure Number: ACIS Verif. Report ACIS-500-77-01VR	
Configuration: ACIS Instrument mounted in ISIM	
Cycle Time: N/A	
Verification Discussion/Results:	
<p>All thermal analysis was performed using an MLI effective emittance of .005 for cold case conditions and .025 for hot case conditions. ACIS Verif. Report ACIS-500-77-01VR has shown that the measured temperatures for the ACIS were very close to predicted for both hot and cold case conditions. Therefore, the assumptions for MLI effective emittance must be correct. All blankets are 20 layer MLI and constructed with the same bulk materials and layup. The requirements of paragraph 3.3.1.1.1.3.3 have been satisfied and no further discussion is required.</p>	

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5/30/97
Date