

ACIS Verification Summary Report

Specification:	ACIS Contract End Item Specification
Requirement Number/Title:	3.2.5.7 Orbiter Cargo Bay Environment (VRSD 3.2.5.7-1)
Requirement Statement: The ACIS radiators (thermal control system) shall be designed with enough pre launch margin to be compatible with the Orbiter Cargo Bay cleanliness and contamination requirements as stated in paragraph 4.2.7.2.1 of TRW SE28 Contamination Control and Implementation Plan.	
Verification Method:	Analysis
Procedure Number: N/A	
Configuration: ACIS Instrument Mounted in ISIM	
Cycle Time: N/A	
Verification Discussion/Results:	
<p>The ACIS radiators have been designed with enough margin to meet the requirements specified above. The most severe environment is at hot case conditions in which a degraded emittance of .95 is assumed on the radiators versus .98 nominal. This is conservative since most contamination is organic and already has a high emittance in IR. It is not possible to get enough contamination on the radiators to reduce the emittance to .95 which was used in the analysis. Therefore, the requirements of paragraph 3.2.5.7 have been satisfied and no further discussion is required.</p>	


 ACIS Cognizant Engineer

5/30/97
 Date