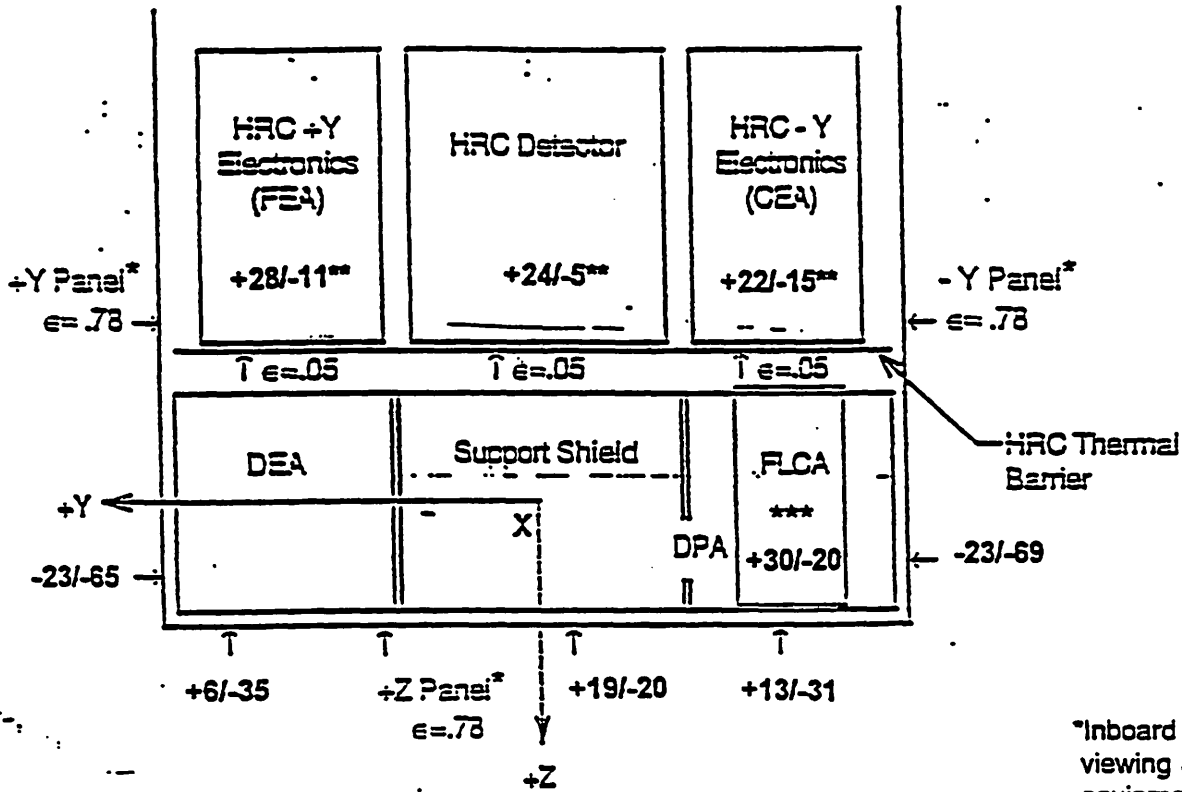


ACIS Verification Summary Report

Specification:	AXAF Observatory to Science Instrument ICD (IF1-20)
Requirement Number/Title:	3.3.1.1.1.1.10 ACIS DA Thermal Interfaces (VRSD 3.3.1.1.1.1.10)
Requirement Statement: For cable hot and cold case analysis the boundry temps and surface IR emittances of the ISIM shall be per Figure 3.3-1.	
Verification Method:	<i>Validation of Records</i>
Procedure Number:	<i>N.A.</i>
Configuration:	<i>ACIS thermal models</i>
Cycle Time:	<i>N.A.</i>
Verification Discussion/Results:	
<p><i>The ACIS thermal models incorporate the boundary temperatures and surface IR emittances of the ISIM per Figure 3.3-1, from PIRN 20-0030 for the thermal ICD (CMO7A). See attached Figure 3.3-1.</i></p>	

Ellen M Ser 5/22/97

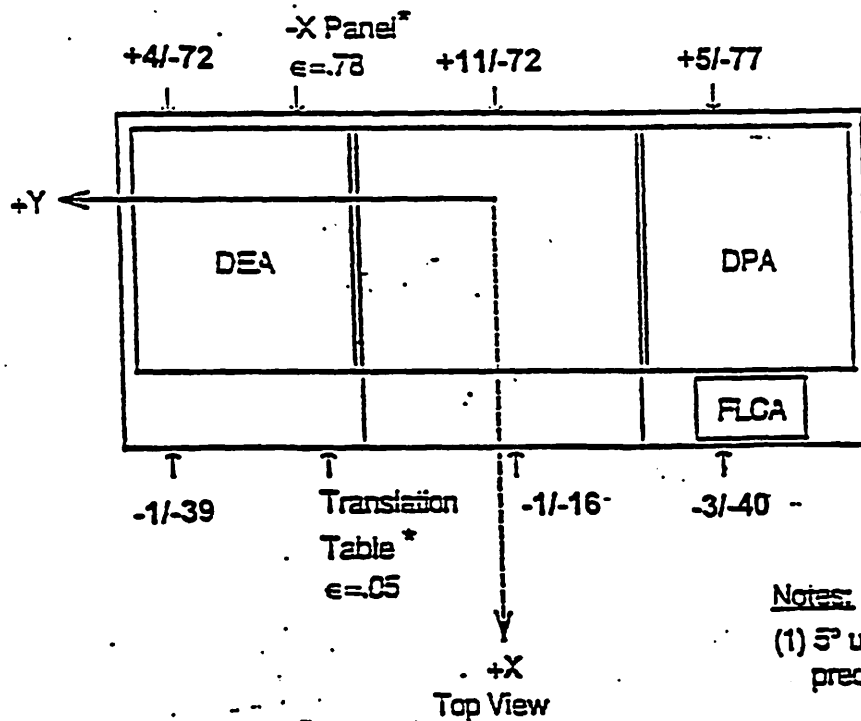
 ACIS Cognizant Engineer Date



Hot Case (°C) ACIS Viewing, 180° Sun, 6 ACIS CCDs On

Cold Case (°C) HRC Viewing, 45° Sun, 2 ACIS CCDs On

- *Inboard surface viewing SI equipment
- **HRC thermal barrier temperature
- ***FLCA emittance = 0.84 on -X face, 0.78 on +Z & +Y faces, and 0.10 on remaining faces



Notes:
(1) 5° uncertainty included in predicted temperatures shown

Figure 3.3-1: ISIM Hot and Cold Operational Case Boundary Temperatures and IR Emittances for ACIS Detector Cables and ACIS Protron Shield/DPA/DEA Thermal Analysis