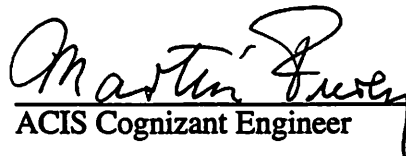


# ACIS Verification Summary Report

<b>Specification:</b>	ACIS Contract End Item Specification
<b>Requirement Number/Title:</b>	3.7.1.2.1 Stiffness (VRSD 3.7.1.2.1)
<b>Requirement Statement:</b> The instrument shall have stiffness which results in modal frequencies that satisfy the criteria listed in paragraph 3.4.1.2.1 of the Observatory to Science Instrument ICD.	
<b>Verification Method:</b>	REVIEW OF DESIGN DOCUMENTATION AND TESTING
<b>Procedure Number:</b>	
<b>Configuration:</b>	
<b>Cycle Time:</b>	
<b>Verification Discussion/Results:</b>	
<p>ANALYSIS (SEE MIT DOCUMENT 36-01504, SS STRESS AND VIBRATION ANALYSIS) AND VIBRATION TESTING SHOWED <sup>THAT</sup> THE SS ASSEMBLY HAS ITS LOWEST NATURAL FREQUENCY WELL ABOVE <del>(50 Hz)</del> <sup>(80 Hz)</sup> THE REQUIRED 50 Hz.</p>	

  
 ACIS Cognizant Engineer

5-27-97  
 Date

Element:  
ACIS

Requirement Number:  
3.7.1.2.1

Verification Item:  
3.7.1.2.1

Requirement Title:  
Stiffness

**AXAF-I  
Verification  
Requirement  
Compliance Data  
Submittal**

Evaluators:  
STR

Type of Review:  
 Verification Item Closure  
 Requirement Closure

Compliance Data/Location:  
MA-21/ACIS-400-74-01VR/Rm 522 Bldg 4200 (Part 1 of 2)  
MA-179/36-01510.205/Bldg 4200 Rm 522 (MIT Closure Report)(P2 of 2)  
MA-301/ACIS-600-A-03/Rm 522 Bldg 4200

Verification Method  
Analysis

Comments:  
The test reports are from previous vibrate tests that have since been rerun. Reports of the current tests are required. Tests reports of the Vent Assembly, detector housing, DEA/DPA, and PSMC vibrate tests are needed.

*Test reports submitted on July 2.  
First natural frequency of all items tested  
was (well) above the 50 Hz. requirement.  
Cover pages of test reports attached.*

*William Mayer 7/16/97*

Status

Open 5/13/97 due 6/13/97 (Part 1)  
Open 6/4/97 due 6/27/97 (Part 2)

Recommendation:  Approve  
 Disapprove  
 Other (Explain)

Action Required for Closure:

MSFC Evaluator: Dan Mellen Date: 6/25/97 Organization: ED25 Phone Number: 4-7193

Disposition:  Approve  
 Disapprove  
 Other (Explain)

Action Required for Closure:  
Provide data mentioned above.

Chief Engineer: Anthony R. Lavoie Date: 6/26/97