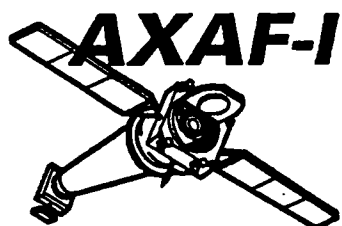
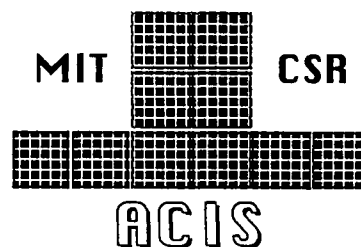


# CSR

36-01501-02  
May 1, 1995  
NAS8-37716  
DR SVR04



**Advanced X-ray  
Astrophysics Facility**



**AXAF - I  
CCD Imaging Spectrometer**

## Verification Test and Assessment Reports

**Submitted to:**

**George C. Marshall Space Flight Center  
National Aeronautics and Space Administration  
Marshall Space Flight Center, AL 35812**

**Submitted by:**

**Center for Space Research  
Massachusetts Institute of Technology  
Cambridge, MA 02139**

**AXAF-I CCD Imaging Spectrometer  
(ACIS)**

**Verification Test and Assessment Reports**

Document No.36-01501-02

DPD 727 DR SVR04

Contract # NAS8-37716

May 1, 1995

Submitted to:

George C. Marshall Space Flight Center  
National Aeronautics and Space Administration  
Marshall Space Flight Center, AL 35812

Submitted By:

Massachusetts Institute of Technology  
Center for Space Research  
77 Massachusetts Avenue  
Cambridge, MA 02139

Approvals:

Richard Foster  
Project System Engineer  
Massachusetts Institute of Technology

Philip J. Gray  
Project Manager  
Massachusetts Institute of Technology



**MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
CENTER FOR SPACE RESEARCH  
CAMBRIDGE, MASSACHUSETTS 02139**

<b>REVISION LOG</b>		<b>TITLE:</b> Verification Test and Assessment Reports		<b>DOC.NO.</b> 36-01501	
<b>Revision</b>	<b>Date (mm/dd/yy)</b>	<b>ECO No.</b>	<b>Page(s) Affected</b>	<b>Reason</b>	<b>Approval</b>
01	5/23/94		All	PDR Outline Release	
02	5/1/95		All	CDR Update - Add Reference to Released Documents and GSE Activities	

**TABLE OF CONTENTS**

**REVISION LOG** ..... **i**

**TABLE OF CONTENTS**..... **1**

**1. INTRODUCTION**..... **2**

    1.1 Scope .....2

    1.2 Applicable Documents.....2

**2. METHODOLOGY** ..... **2**

    2.1 Requirements & Specifications .....2

    2.2 Verification Descriptions .....2

    2.3 Test Results.....2

        2.3.1 *Deviations/Waivers/Nonconformance Cases* .....2

        2.3.2 *Disposition of Test Items and Equipment*.....2

## **1. INTRODUCTION**

### **1.1 Scope**

This document provides data which results from the implementation of the ACIS Verification Plan, 36-01203, and Verification Specification & Requirements Document, 36-01403, and is intended to show that the delivered instrument meets the requirements of the ACIS Contract End Item Specification, 36-1101, and/or the ACIS Ground Support Equipment CEI Specification, 36-1102.

### **1.2 Applicable Documents**

#### **ACIS Project Documents**

36-01101	ACIS Contract End Item (CEI) Specification
36-01102	ACIS Ground Support Equipment CEI Specification
36-01203	ACIS Verification and Calibration Plan
36-01403	ACIS Verification Requirements & Specifications Document (VRSD)

## **2. METHODOLOGY**

### **2.1 Requirements & Specifications**

Verification methods to be used are defined in the verification matrix, compiled as an appendix to the ACIS CEI, 36-01101, or the ACIS GSE CEI, 36-1102.

### **2.2 Verification Descriptions**

Summary level descriptions of each verification activity are located in the appendix of the ACIS VRSD, 36-01403, as worksheets. Contained on each worksheet is the necessary references to the detailed test procedures, where appropriate.

### **2.3 Test Results**

Results of each test will be presented as attachment in the form of completed test procedures. The required procedures will be identified in the worksheets of the VRSD. These procedures will contain:

- a) The specific result of each procedure requirement.
- b) Performance data, plots, and/or pictures.
- c) Conclusions and recommendations relative to success of the tests.
- d) A test conductors log.
- e) A copy of the "as run" test procedure.

#### ***2.3.1 Deviations/Waivers/Nonconformance Cases***

A description of all Deviations, Waivers, and Nonconformances will be provided in this report.

#### ***2.3.2 Disposition of Test Items and Equipment***

A description of the end of test condition and disposition of all involved hardware, including test equipment will be provided in this report.