

ACIS Verification Summary Report

Specification:	ACIS Contract End Item Specification
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Requirement Number/Title:	3.2.6.2.3.1 Humidity (VRSD 3.2.6.2.3.1)
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Requirement Statement: The transportation equipment shall maintain the relative humidity between 40% and 60% under protective covers such that changes of temperature during transportation shall not result in the condensation of moisture.

Verification Method:	Validation of Records
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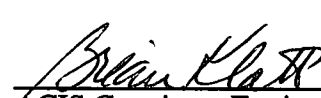
Procedure Number:

Configuration:

Cycle Time:

Verification Discussion/Results:

The ACIS flight Instrument is controlled during transportation and handling by MIT procedure 36-02030. The ACIS is double bagged, sealed and purged with dry nitrogen in a sealed dedicated shipping container which is also purged with dry nitrogen. Twelve (12) pouches of desiccant are placed inside of the shipping container. Two recording humidity indicators are installed inside the shipping container to verify the ambient humidity.


ACIS Cognizant Engineer

5/9/97
Date

Element:

ACIS

Requirement Number:

3.2.6.2.3.1

Verification Item:

3.2.6.2.3.1

Requirement Title:

Humidity

Compliance Data/Location:

MA-43/36.01510.113/Bldg 4200 Rm 522 (MIT Closure Report)
MA-266/ACIS-717-A-26/Rm 522 Bldg 4200

Evaluators:

MECH

Type of Review:

- Verification Item Closure
- Requirement Closure

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

Verification Method

Analysis

Comments:

Waiver submitted on 8/4/97.
 WAIVER # 36-013
 William Mayer

Status

Open 5/14/97 due 6/13/97

Recommendation:

Action Required for Closure:

- Approve
- Disapprove
- Other (Explain)

MSFC Evaluator:

Alan Bean

Date:

8/25/97

Organization:

EP43

Phone Number:

4-9401

Disposition:

Action Required for Closure:

- Approve
- Disapprove
- Other (Explain)

Actually, they don't meet this. ACIS uses desiccant and doesn't keep the humidity in that range. We will need a waiver for this.

Chief Engineer:

Anthony R. Lavole

Date:

7/3/97

Massachusetts Institute of Technology

CENTER FOR SPACE RESEARCH

WAIVER REQUEST

Date Prepared: 8/1/97	Waiver No. 36-013
Initiated By: Brian Klatt	
COMPONENT AFFECTED: P/N: 36 Name: ACIS	ITEM AFFECTED: P/N: Name:
Original Requirements: ACIS CEI specification 36-01101, paragraph 3.2.6.2.3.1, requires that the transportation equipment maintain the relative humidity between 40% and 60% under protective covers such that changes of temperature during transportation shall not result in the condensation of moisture.	
Waiver Requested: It is requested that the transportation equipment relative humidity maintenance requirement be waived.	
Justification/Reason: The ACIS environment during transportation was controlled to insure that condensation would not form. The ACIS was double bagged, sealed and purged with dry nitrogen in a sealed dedicated shipping container which was also purged with dry nitrogen. Twelve (12) pouches of desiccant were placed inside of the shipping container. Two recording humidity indicators were installed inside the shipping container to verify the ambient humidity. Inspection of the humidity indicators after shipment has confirmed that the relative humidity did not exceed 50%. In addition the temperature during shipment did not go below 60° F, always staying above the dew point.	
Related Action and Effect: (include cost/price)	

FUNCTION	APPROVAL SIGNATURE	DATE
MIT Performance Assurance Manager	<u>Brian Klatt</u>	<u>8/4/97</u>
MIT Project Engineer	<u>Phil Zinke</u>	<u>8/4/97</u>
MIT Project Manager	<u>William F. Mayer</u>	<u>8/4/97</u>
NASA Representative	_____	_____
NASA Project	_____	_____