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I. Physikalisches Institut B, RWTH Aachen



# ALPHA MAGNETIC SPECTROMETER (AMS) ACCEPTANCE DATA PACKAGE

for

## AMS COLLABORATION HARDWARE

Acceptance Data Effective through [Date]

Part Name: AMS02  
Anticoincidence  
Counter System  
(ACC)

Subsystem/Detector: ACC

Part Number: AMS02-ACC.001

Serial Number: 1001

AMS02-ACC-001A

ADP Tracking Number:

RWTH Aachen, I. Physics Institute B, Sommerfeldstrasse 14, Tower 28, D-52074 Aachen (Germany),  
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# ALPHA MAGNETIC SPECTROMETER (AMS)

ACCEPTANCE  
DATA  
PACKAGE

FOR

PART NAME:

AMS02-Anticoincidence Counter  
System (ACC)

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PART NUMBER:

**AMS02-ACC.001**

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SERIAL NUMBER:

1001

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# ALPHA MAGNETIC SPECTROMETER (AMS) MAJOR COMPONENT PRE-INTEGRATION CHECKLIST

ITEM NAME	CI NO.	PART NUMBER	SERIAL NUMBER
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The following checklist must be completed prior to integration of any of the major AMS subsystems onto the NASA provided Payload Integration Hardware. All open issues must be documented and dispositions must be approved by all parties.

## INTEGRATION REVIEW ITEMS

- All integration plans and procedures have been completed and approved.
- All hardware, including interface fasteners, is available for integration.
- Mechanical and electrical interfaces have been verified against the interface control documentation.
- All applicable functional, unit-level, subsystem, and qualification testing has been conducted successfully.
- Integration facilities, including clean room, ground support equipment, handling fixtures, cranes, and electrical test equipment are ready and available.
- Support personnel have been adequately trained and will be available at the integration facility.
- Handling and safety requirements have been documented.
- All known system discrepancies have been identified and disposed in accordance with an agreed-upon plan.
- All previous design review success criteria and key issues have been satisfied in accordance with an agreed-upon plan.
- The quality control organization is ready to support the integration effort.

\_\_\_\_\_  
Payload Integration and Test Manager

\_\_\_\_\_  
Date

\_\_\_\_\_  
Contractor/Supplier Quality Assurance

\_\_\_\_\_  
Date

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE INDEX PAGE

	ITEM NAME	CI NO.	PART NUMBER	SERIAL NUMBER	
<b>DOCUMENTS INCLUDED IN THIS DATA PACKAGE</b>					
	<b>Y</b>	<b>N</b>	<b>N/A</b>	<b>SECTION</b>	<b>INDEX</b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		I	HISTORICAL LOG/NOTES/COMMENTS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		II	WAIVERS/DEVIATIONS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		III	UNEXPLAINED ANOMALIES REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		IV	UNPLANNED/DEFERRED WORK REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		V	PREPLANNED/ASSIGNED WORK REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		VI	IDENTIFICATION-AS-DESIGNED CONFIGURATION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		VII	OPERATING TIME/CYCLE REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		VIII	AGE SENSITIVE/TIME ACTION ITEMS REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		IX	NON-STANDARD CALIBRATION DATA REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		X	REPAIR LIMITATIONS DATA REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		XI	PRESSURE VESSEL DATA RECEIVED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		XII	NONFLIGHT HARDWARE/TEMPORARY INSTALLATIONS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		XVI	CERTIFICATIONS RECEIVED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		XVII	MSDS RECEIVED

### ACCEPTANCE DATA PACKAGE APPROVAL

With only the exceptions listed below, all above criteria have been successfully completed or are not applicable and the following components are ready for integration onto the NASA provided Payload Integration Hardware.

\_\_\_\_\_  
Payload Integration and Test Manager

\_\_\_\_\_  
Date

Exceptions\Resolution Plan (No signature required if there are no exceptions)

- 1.
- 2.
- 3.

I agree with the list of exceptions and agree to implement the resolution plan as described above.

\_\_\_\_\_  
Experiment Integration and Test Manager

\_\_\_\_\_  
Date























# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE PRESSURE VESSEL DATA

## Section XI

Item Name				Part Number				Serial Number			
PART NAME				PART NUMBER				SERIAL NUMBER			
LIMITED LIFE			THRESHOLD PRESSURE (PSID)				DATE INSTALLED				
PRESSURE LIMITATIONS:		TP:	OP:	PP:	CYCLE LIMITATIONS:		MOPC:	PPC:			
FACILITY	TEST NAME (PROOF PRESS, LEAK TEST)	TYPE OF PRESSURANT	DATE	PEAK PRESSURE	MINIMUM PRESSURE	TIME		CYC	CUM TIME	TOTALS	QC/OPER
						HRS	MIN			CYCLES	STAMP
THIS PRESSURE VESSEL IS CERTIFIED TO MEET ALL CONTRACT REQUIREMENTS, UNLESS OTHERWISE NOTED, AND IS ACCEPTABLE FOR FLIGHT _____ OR GSE _____ USE.											

**ALPHA MAGNETIC SPECTROMETER (AMS)  
HARDWARE ACCEPTANCE DATA PACKAGE  
PRESSURE VESSEL DATA**

**Section XI**

Item Name	Part Number	Serial Number
DATE	CONTRACTOR/SUPPLIER SIGNATURE	





# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE CERTIFICATIONS

## Section XIII

ITEM NAME	CI NO.	PART NUMBER	SERIAL NUMBER
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Attached documented evidence attesting to the fact the delivered hardware meets specified requirements (i.e., proof load, proof pressure, cleanliness, flight, etc.). Supporting documentation [e.g. Verification Completion Notices (VCNs)], shall be available for review. Certifications and references to supporting records include qualification test procedures, certification analysis, vendor data, justifications for variances from vendor specifications, certification inspections procedures for all design requirements and acceptance requirements.

**CERTIFICATIONS INCLUDED IN THIS DATA PACKAGE**

Y	N	N/A	ITEM ID	INDEX
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	Qualification Test Procedures
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B	Certification Analysis
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	Vendor-supplied Data Sheets
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D	Justifications for variances from vendor specifications and any records of approval
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	E	Certification inspection procedures for all design requirements and acceptance requirements
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F	Log of all hardware with corresponding references to certification records for all devices with stored energy (i.e. pressure vessels, capacitors, batteries)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	G	Log of hazardous chemical and materials with corresponding references to certification records

