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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 2009 September 14

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)

PART NUMBER:

AMS02-ACC.001

SERIAL NUMBER:

1001

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

AMS02-Anticoincidence Counter System
(ACC)

AMS02-ACC.001

1001

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

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ITEM NAME	CI NO.	PART NUMBER	SERIAL NUMBER

DOCUMENTS INCLUDED IN THIS DATA PACKAGE

Y	N	N/A	SECTION	INDEX
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	HISTORICAL LOG/NOTES/COMMENTS
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	II	WAIVERS/DEVIATIONS
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	III	UNEXPLAINED ANOMALIES REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	IV	UNPLANNED/DEFERRED WORK REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	V	PREPLANNED/ASSIGNED WORK REPORTED
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VI	IDENTIFICATION-AS-DESIGNED CONFIGURATION
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VII	OPERATING TIME/CYCLE REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VIII	AGE SENSITIVE/TIME ACTION ITEMS REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	IX	NON-STANDARD CALIBRATION DATA REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	X	REPAIR LIMITATIONS DATA REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	XI	PRESSURE VESSEL DATA RECEIVED
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	XII	NONFLIGHT HARDWARE/TEMPORARY INSTALLATIONS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	XIII	CERTIFICATIONS RECEIVED
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	XIV	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 HISTORICAL LOG / NOTES / COMMENTS

Section I

AMS02 Anticoincidence Counter System (ACC)

AMS02-ACC.001

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Item Name	Part Number	Serial Number
Description of Product Defining All Functions and Current Approved Design Specification		
Special Instructions to Maintain Safety and Functionality of the Equipment During Storage, Ground Handling Operations, Maintenance, and Disposal		
Product Historical Log/Notes/Comments		
Log of Hazardous Chemical and Materials with Corresponding References to Certification Records		

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

AMS02 Anticoincidence Counter System (ACC)

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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

AMS02 Anticoincidence Counter System (ACC)

AMS02-ACC.001

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Item Name

Part Number

Serial Number

DATE

CONTRACTOR/SUPPLIER SIGNATURE

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE CERTIFICATIONS

Section XIII

AMS02 Anticoincidence Counter System
(ACC)

AMS02-ACC.001

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ITEM NAME

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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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	Qualification Test Procedures
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B	Certification Analysis
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	Vendor-supplied Data Sheets
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	D	Justifications for variances from vendor specifications and any records of approval
<input checked="" 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 checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	G	Log of hazardous chemical and materials with corresponding references to certification records

