0546-208 B ✓

JSC SHIPPING DOCUMENT

1. Originator (Name, Org. Code, Phone) Timothy Urban / EA3 ESCG (281)461-5707	2. Date Prepared 11/13/07

Location of Item(s):

3. Building	Room	4. Contact and Phone
920A	Hi Bay	Charlotte Armstrong 792-5558

5. Status of Items

- [ ] Transfer to Other NASA Center
- [ ] Test and Return
- [ ] Replacement or Credit
- [ ] Relocation
- [ ] For Flight/Return
- [ ] GFP To Contractor
- [ ] Loan (Number) ____
- [x] Vendor Owned
- [ ] Repair and Return
- [ ] Other NASA Ctr. Property

JF 1027 No.:

6. Shipping Information (Check One)

- [x] Prepaid
- [ ] Collect
- [ ] Government Funds (Cite #'s)
- [ ] Vendor Pickup
- [ ] Hand Carry
- [ ] Third Party Billing

7. Shipment in Direct Support of:

- [ ] Shuttle STS: ____
- [ ] Space Station Mission: ____
- [x] Other, Please Explain: For Test

8. QUALITY CONTROL INFORMATION (Check Each)

- [ ] Flight/Mission Essential
- [ ] GSE
- [x] Non-Flight
- [ ] Other

	YES	NO
9. Materials Classified (Define Block 25)		X
10. Data Package Enclosed?		X
11. Items are being shipped outside the U.S. or to a foreign national or representative?	X	

12. APPROVAL - Typed Name and Signature	DATE
Division Chief: Roger Schwarz SCHWARZ	11-14-07
Property Custodian - Mail Code: JE 3EA; J D Roberts, J D ROBERTS	11/13/07
Contracting Officer	
Quality Assurance Representative	
Direct Program Manager	
Other	

13. From:
NASA/Lyndon B. Johnson Space Center
Transportation Officer, Bldg. 421
2101 NASA Road 1
Houston, Texas 77058

(For Return Shipments to JSC, include Voucher number from block 16)

2007 NOV 16 PM 1:39

14. Ship To
ORDER MIT
CERN
CH-1211 Geneva 32
SWITZERLAND

Contact:
Mike Capell, Phone: +41 22 767 47 06

Ref: EA30546-320019
Dep: EA3
Date: 11/19/2007
Wgt: 426.0 LBS
CV: 0.00
# of Pkgs: 1
Svcs: IP FREIGHT
TRCK: 7201 4439 6637

PACKED & VERIFIED
Timothy Urban 11/19/2007

Mark For/Phone Number: Mike Capell, Phone: +41 22 767 47 06

15. Date Required at Destination	Is 290A Used?	16. Voucher Number
11/26/07 ~~11/19/07~~	NO	J7-320-019

17. Authority Or Purpose: AMS-02 Project

18. Contract/Grant/T-order number:

19. Signature Supply and Equipment Management Officer: for [signature] 11/16/07

20. TCN (Tracking Control Number): 0546-208

21. Date Shipped

SHIPPING:	1388.40
SPECIAL:	0.00
HANDLING:	0.00
TOTAL:	1388.40

22. Bill of Lading

24. Appropriation/Funding Data

25. Project Code: SA-AMS

26. Remarks
Shipment of items is returning non-flight engineering model test equipment back to the provider, CERN / MIT, under collaborative agreement between NASA and the desination institue.

27. Item No.	28. Equipment Control No.	29. Model/Stock/Part Number	30. Item Description, Serial No., Manufacturer No., Lot No., License Plate No., Class of Hardware	31. Unit of Issue	32. Qty.	33. Unit Price	34. Total Value
1		N/A	AMS-02 Power Distribution System EM, S/N 001, Class III	EA	1	135,000.00	135000.00
2		N/A	PDS EM Test Cable Set, Class III	EA	1	7,500.00	7500.00
3		N/A	EEP CAN Box, Class III	EA	1	750.00	750.00

2007 NOV 19 PM 1:48

35. Recapitulation of Shipment (spaced below to be completed by logistics division only)

Issued By: [signature] 11/16/07
Checked By: [signature] 11/19/07
Packed By: Orig/RA 11-19-07

Remove ECN Tag? ☐ Yes ☐ No

Total Containers	Type Container	Description	Total Weight	Total Cube
1	PT	48 x 41 x 45	426	51.2
1		Distribution System	426	51.2

36. Receipt Info	37. Sheet Total
Containers Rec'd	143,250.00
Quantities Rec'd	38. Grand Total 143,250.00
Date Rec'd	39. Receiving Voucher No.
Rec'd By	

JSC Form 290 (Rev September 07, 2007) (USE JSC Form 290A. SHIPPING CONTINUATION SHEET, IF ADDITIONAL SPACE IS REQUIRED) (Informed August 2000)

ORIGINAL

SEND A COPY OF THIS IF FORM 290 WITH [illegible]

Voucher Number
J7-320-019

Requirements for Packaging, Handling, and Transportation for Aeronautical and Space Systems, Equipment, and Associated Components

1. Are there any special documented requirements addressing special handling, packaging, and shipping that needs to be attached to the packing list for this item(s)? A copy of the information is to be attached and specified in block 25 of the 290 prior to submitting. ☐ Yes ☒ No
2. Does the item(s) identified on the 290 require clean room isolation? If yes, identify what cleanliness level (GC, VC, UV-VC, and types of Precision cleaned 100A, 200A, etc.) and specify the requirement document (e.g., SN-C-0005, D683-10450-1, other). If not a NASA document, a copy must be attached to the 290. ☐ Yes ☒ No
3. Is the item(s) identified on the 290 "Electrostatic Discharge" (ESD) sensitive? ☐ Yes ☒ No

   IS THE HARDWARE PACKAGED CORRECTLY FOR ESD SENSITIVITY? ☐ Yes ☒ No
4. Does the item(s) identified on the 290 contain any hazardous chemicals or materials? If yes, identify the type of chemicals or materials and provide the Material Safety Data Sheet for each item. ☐ Yes ☒ No

   a. Does the item(s) listed contain any explosive or pyrotechnic material? If yes, provide the classification and net weight of each item. ☐ Yes ☒ No

   b. Does the item(s) contain batteries. If yes, identify the type of battery? ☐ Yes ☒ No

   c. If the item(s) contains Lithium-Ion, Lithium Metal or Lithium Alloy, provide the total Lithium content or Lithium-equivalent per battery (grams). ☐ Yes ☒ No

   d. Does the item contain any radioactive materials? (This includes any hazardous radioactive material embedded in the item). If yes, provide a completed JSC Form 1625, "Radioactive Material Transfer Receipt." Ensure the item(s) are identified with the radiation symbols and clearly mark with the label(s) as shown in question 10. ☐ Yes ☒ No

   e. Does the item(s) contain any compressed pressure systems (e.g. cylinders)? If yes, identify the types of fluid or gas contained in the system and if gas, what is the pressure. ☐ Yes ☒ No

   f. Does the item contain any biological specimens? If yes, please identify, describe, and add the MSDS telling what to do in case of a spill, puncture, or rupture? ☐ Yes ☐ No
5. Does the item(s) require any special temperature or humidity control in its handling, packaging, or shipping? If yes, please identify and provide the following information in Fahrenheit: ☐ Yes ☒ No

   Minimum temperature: Minimum humidity:
   Maximum temperature: Maximum humidty:

Voucher Number
J7-320-019

Requirements for Packaging, Handling, and Transportation for Aeronautical and Space Systems, Equipment, and Associated Components

6. Are the item(s) perishable? If yes, identify, describe: ☐ Yes ☒ No

7. Does this item(s) require protection from exposure to the elements? If yes, identify. Be sure to change the "revision date" of this form. ☐ Yes ☒ No *

8. Does this item(s) require special monitoring equipment (e.g. shock, humidity, vibration, or temperature sensors)? If yes, identify the type and duration of monitoring required? ☒ Yes ☐ No

   Shcok indicators already mounted to the outside of the shipping container

9. Does this item(s) require any unique labeling and if yes, please check/verify appropriate label(s) to be used: ☒ Yes ☐ No

- ☐ NASA CRITICAL SPACE ITEM: HANDLE WITH CARE
- ☒ DELICATE INSTRUMENT: HANDLE WITH CARE
- ☐ THIS END UP
- ☐ FRAGILE-LIQUID IN GLASS: HANDLE WITH CARE
- ☐ FRAGILE LIQUID IN PLASTIC: DO NOT CUT
- ☐ PERISHABLE RUSH
- ☒ FRAGILE
- ☐ SMALL PARTS ENCLOSED
- ☐ ELECTROSTATIC DISCHARGE CONTROL REQUIRMENTS
- ☐ CLEANLINESS
- ☐ DO NOT X-RAY
- ☐ LIMITED SHELF LIFE ITEMS - PROCESS IMMEDIATELY
- ☐ CONTROLLED ENVIRONMENT
- ☐ BIOLOGICAL SPECIMENS
- ☐ TEMPERATURE/HUMIDITY
- ☐ RADIOACTIVE MATERIAL
- ☐ CONTAINS HIGH PRESSURE
- ☐ DO NOT FREEZE
- ☐ OTHER

* ITEMS MUST BE PACKED IN PROTECTIVE ALUMINUM SHIPPING CONTAINER
TJU 11/19/07

Printed Name	Mail Code	Signed Name	Date Signed	Phone Number	Cell Phone Number
Timothy Urban	JE-EA3	Tim Urban	11/13/07	(281) 461-5702	(713) 213-8468

** THESE ITEMS HAVE NO COMMERCIAL VALUE **

ProForma Invoice

7201 4439 6637

Export Tracking Number: EA 07-320-002	License Number:	JSC Voucher Number: J7-320-019
Shipper: Transportation Officer, JB7 NASA Johnson Space Center Houston, Texas 77058 (281-483-6512)	**Intermediate Cosignee (when required):**	**Destination (include phone contact):** ORDER MIT CERN CH-1211 Geneva 32 SWITZERLAND Contact: Mike Capell, Phone: +41 22 767 47 06

"These items are exported from the United States for ultimate destination Switzerland, in accordance with the Export Administration Regulations. Diversion, retransfer, disclosure, or use contrary to applications specified in NASA agreement without prior written U.S. authorization are prohibited."

Item	Qty	Detailed Description	NASA Tag and/or Serial/Stock Number	Manufacturer Country of Origin	* Weight (kgs)	ECCN/USML CAT	License/ Exemption/ Exception	Schedule B No. (see census.gov)	Sched. B Qty	Unit Value	Total Cost
1	1	AMS-02 Power Distribution System Engineering Model, S/N 001, Class III	N/A	Italy	184	EAR99	NLR	8536.41.0060		$135,000.00	$135,000.00
2	1	PDS EM Test Cable Set, Class III	N/A	Italy	2	EAR99	NLR	8536.41.0060		$7,500.00	$7,500.00
3	1	EEP CAN Box, Class III	N/A	Switzerland	2	EAR99	NLR	8536.41.0060		$750.00	$750.00
		ITEMS PACKED IN 1 PALLET									
		AES ITN: X20071119028020									

Total All Sheets: $143,250.00

Kristin Williams 11-19-07

Traffic Management Specialist — Date

AGGIE WILLIAMS

Notes:
1. This form must be completed for all exports.
2. Shipments to Russia require invoice transition by initator.

This is not a sale, value shown is for Customs purposes only.

JSC Form 1735 (Rev June 24, 2004) (Informed April 2004)

J7-320-019

Date of Request 11/13/07

Johnson Space Center
Export Control Request and Approval Worksheet

Reference Number EA-07-320-002

Directions: At least 90 days prior to exporting hardware, software or data to a foreign national, submit this form to your Export Control Representative

SECTION 1 (complete for all exports)

Date of Export: 11/16/07

Requested by: Timothy Urban **Org/Company:** EA3 / Jacobs Sverdrup ESCG **Phone Number:** (281) 461-5702

Email: timothy.urban@escg.jacobs.com **Fax:** (281) 461-5856

General description of export (spell out acronyms) Alpha Magnetic Spectrometer (AMS-02) payload Power Distribution System (PDS) Engineering Model (EM)

Is this a temporary export? ☐ Yes ☒ No If yes, when will it be returned?

What requirement or agreement do we have with the foreign national to provide this export? JSC28792, Rev. D

For what purpose it is being exported (what is the end-use?) Assembly to test AMS-02 and return . Contact: Mike Capell, Phone: +41 22 767 47 06

To whom is it being exported? *(or attach ProForma invoice)* ORDER MIT / CERN / CH-1211 Geneva 32 / SWITZERLAND

What program does this export support? Alpha Magnetic Spectrometer (AMS-02) payload **Date denied parties/entities list checked:** 11/16/07

Type of export (mark all that apply):

☒ Hardware ☐ Software ☐ Data ☐ Information via discussions

(if you checked hardware or software, please attach a completed Proforma Invoice --)

Method of export (mark all that apply):

☐ Discussion ☒ JSC Transportation Office ☐ Hand carry ☐ JSC Mail Room ☐ Electronic ☐ Other

SECTION 2

Export Classification EAR99/NLR, ~~Exemption ECCN 1A999 (AMS-02 project)~~ SLL

Classification rationale Items were delivered from providor for purposes of Class III non-certification testing at JSC and return. This testing is in support of the Alpha Magnetic Spectrometer payload. integration. Classified per memo from NASA HQ/LM to JSC/OZ2, dated 3/22/02. "Status of AMS Compliance with U.S. Export Regulations."

SECTION 3

Approvals

Stephen Lamkin — Date 11/16/07 — Phone (281) 483-8264

Export classifications for this shipment were determined by

Signature of Export Control Official (ECR or CEA) — Date 11/16/07 — Phone (281) 483-8264

ES T Approval *(req'd for use of export license and license exemption/exception only)* — Date — Phone

JSC Form 1724 (Rev March 27, 2003) (Informed September 2000)