0410-208B ✓ 11-19-07 J7-311-006

JSC SHIPPING DOCUMENT

1. Originator (Name, Org. Code, Phone): JD Roberts,281-461-5109
2. Date Prepared: 09/13/07

Location of Item(s):

3. Building: 421 | Room: Bond | 4. Contact and Phone: Alfredo Cavallo,281-483-0287

5. Status of Items
- [ ] Transfer to Other NASA Center
- [x] Test and Return
- [ ] Replacement or Credit
- [ ] Relocation
- [ ] For Flight/Return
- [ ] GFP To Contractor
- [ ] Loan (Number) ____
- [ ] 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 Assy & Test

8. QUALITY CONTROL INFORMATION (Check Each)
- [x] Flight/Mission Essential
- [x] GSE
- [ ] 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?		

12. APPROVAL - Typed Name and Signature	DATE
Division Chief: TRENT MARTIN	9/13/07
Property Custodian - Mail Code JE3ea: JD ROBERTS	9/13/07
Contracting Officer	
Quality Assurance Representative (SAIC 136)	11/1/07
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 -7 PM 12:43

14. Ship To:

Scientific Magnetics
Building E1, Culham Science Centre
Abingdon OX14 3DB
United Kingdom

Mark For/Phone Number: Stephen Harrison, Phone: 44 1865 409200

15. Date Required at Destination: ~~09/27/07~~ | Is 290A Used? YES | 16. Voucher Number: J7-311-006

17. Authority Or Purpose: AMS-02 Project | 18. Contract/Grant/T-order number

19. Signature Supply and Equipment Management Officer: 11/07/07

20. TCN (Tracking Control Number): 0410-208

21. Date Shipped: 11-14-07

22. Mode of Shipment: Landstar Global

23. Bill of Lading: NJS08-00, 1124

24. Appropriation/Funding Data

25. Project Code

26. Remarks

Shipment of items for assembly of scientific instrument testing, provided under collaborative agreement between NASA and the destination institute. Items 1and 2 are classified Class I, and 3 thru 17 are Class GSE. Jacobs Sverdrup is property owner until completion of installation; then items will be deliverables to NASA.

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		SEG39137817-301	Flight Vacuum Case Assy and Container, S/N 1001 (Class 1)	ea	1	2,600,000.00	2600000.00
2		SDG39135781-001	Inner Cylinder, Ser # 1002, Class I	ea	1	50,000.00	50000.00
3		SEG38117129-702	Drop SlingAssy - 2A, Ser # 1011, (GSE)	ea	1	177.30	177.30
4		SEG38117129-702	Drop SlingAssy - 2A, Ser # 1012, (GSE)	ea	1	177.30	177.30
5		SEG38117129-702	Drop SlingAssy - 2A, Ser # 1013, (GSE)	ea	1	177.30	177.30

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

Issued By: 11/7/07 | Remove ECN Tag? ☐ Yes ☐ No

Checked By: LC 11/7/07

Packed By: ORIG LC 11/7/07

Total Containers	Type Container	Description	Total Weight	Total Cube

36. Receipt Info
- Containers Rec'd
- Quantities Rec'd
- Date Rec'd
- Rec'd By

37. Sheet Total: 2,650,531.97 (SAIC 136 11/14/07)

38. Grand Total: 2,871,369.04 (SAIC 136 11/21/07)

39. Receiving Voucher No.

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 JF FORM 290 WITH RETURN SHIPMENT

J7-311-006

SHIPPING DOCUMENT (Continuation Sheet)

TCN

VOUCHER NO. J7-311-006

15. ITEM NO.	16. EQUIPMENT CONTROL NUMBER	17. MODEL NUMBER/ STOCK NUMBER/ PART NUMBER	18. ITEM DESCRIPTION, SERIAL NO., MANUFACTURER NO., LOT NO., LICENSE PLATE NO., CLASS OF HARDWARE	19. UNIT OF ISSUE	20. QTY	21. UNIT PRICE	22. TOTAL VALUE
6		SEG38117129-702	Drop SlingAssy - 2A, Ser # 1014, (GSE)	ea	1	177.30	177.30
7		SEG38117126-702	Upper Sling Assy, S/N 1003, (GSE)	ea	1	449.00	449.00
8	2120441	SEG38117075-701	Multi Purpose Lifting Fixture, S/N 1002, (GSE)	ea	1	18,651.00	18,651.00
9		EN1-91	Type V Endless Web Sling, Ser # SN5, (GSE)	ea	1	10.53	10.53
10		EN1-91	Type V Endless Web Sling, Ser # SN6, (GSE)	ea	1	10.53	10.53
11		EN1-91	Type V Endless Web Sling, Ser # SN7, (GSE)	ea	1	10.53	10.53
12		EN1-91	Type V Endless Web Sling, Ser # SN8, (GSE)	ea	1	10.53	10.53
13		SEG38118907-301	Lifting Sling, S/N N/A (GSE)	ea	1	1,500.00	1,500.00
14		1019466	1/4" Shackle, G-2130, Ser # SN5, (GSE)	ea	1	4.43	4.43
15		1019466	1/4" Shackle, G-2130, Ser # SN6, (GSE)	ea	1	4.43	4.43
16		1019466	1/4" Shackle, G-2130, Ser # SN7, (GSE)	ea	1	4.43	4.43
17		1019466	1/4" Shackle, G-2130, Ser # SN8, (GSE)	ea	1	4.43	4.43

SheetTot 20,837.14

J7-311-006
Voucher Number

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
I7-311-006

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
   Items require protective covering (tarpaulin type cover) to protect against rain and elements.

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
   Project team to provide shockwriter for item 1 only (internal mounting).

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 Crane Lift "ONLY" to move item 1. Desiccant crystals required for reducing moisture content.

Printed Name	Mail Code	Signed Name	Date Signed	Phone Number	Cell Phone Number
J. D. Roberts	JE-3EA	J. D. Roberts	09/13/07	281-461-5109	

** THESE ITEMS HAVE NO COMMERCIAL VALUE **

ProForma Invoice

NJS08-00,1123

Shipper:
Transportation Officer, JB7
NASA Johnson Space Center
Houston, Texas 77058
(281-483-6512)

Intermediate Cosignee (when required):

Destination (include phone contact):
Scientific Magnetics
Building E1, Culham Science Centre
Abingdon OX14 3DB
United Kingdom

Contact:
Stephen Harrison

Phone:
44 1865 409200

"These items are exported from the United States for ultimate destination United Kingdom, 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	SEG39137817-301, Flight Vacuum Case Assy and Container, S/N 1001 (Class I)	NONE	JSC-USA	2043	EAR99	NLR	9617.00.2000		$2,500,000.00	$2,500,000.00
2	1	SDG39135781-001, Inner Cylinder, Ser # 1002, Class I	NONE	STADCO - JSC	45	EAR99	NLR	9617.00.2000		$50,000.00	$50,000.00
3	1	SEG38117129-702, Drop Sling Assy - 2A, S/N 1011 (GSE)	NONE	JSC-USA	2.5	EAR99	NLR	7312.10.2500		$177.30	$177.30
4	1	SEG38117129-702, Drop Sling Assy - 2A, S/N 1012 (GSE)	NONE	JSC-USA	2.5	EAR99	NLR	7312.10.2500		$177.30	$177.30
5	1	SEG38117129-702, Drop Sling Assy - 2A, S/N 1013 (GSE)	NONE	JSC-USA	2.5	EAR99	NLR	7312.10.2500		$177.30	$177.30
6	1	SEG38117129-702, Drop Sling Assy - 2A, S/N 1014 (GSE)	NONE	JSC-USA	2.5	EAR99	NLR	7312.10.2500		$177.30	$177.30
7	1	SEG38117126-702, Upper Sling Assy, S/N 1003, (GSE)	NONE	JSC-USA		EAR99	NLR	7312.10.2500		$449.00	$449.00
8	1	SEG38117075-701, Multi Purpose Lifting Fixture, S/N 1002 (GSE)	2120441	JSC-USA	1044	EAR99	NLR	8431.49.9057		$18,651.00	$18,651.00
9	1	EN1-91, Type V Endless Web Sling, Ser # SN5, (GSE)	NONE	JSC-USA		EAR99	NLR			$10.53	$10.53

Total All Sheets: $2,671,369.04

Kristen Tollison 11-8-07
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)

** THESE ITEMS HAVE NO COMMERCIAL VALUE **

ProForma Invoice

J7-311-006

Shipper:
Transportation Officer, JB7
NASA Johnson Space Center
Houston, Texas 77058
(281-483-6512)

Intermediate Cosignee (when required):

Destination (include phone contact):
Scientific Magnetics
Building E1, Culham Science Centre
Abingdon OX14 3DB
United Kingdom

Contact:
Stephen Harrison

Phone:
44 1865 409200

"These items are exported from the United States for ultimate destination United Kingdom, 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
10	1	EN1-91, Type V Endless Web Sling, Ser # SN6, (GSE)	NONE	JSC-USA		EAR99	NLR			$10.53	$10.53
11	1	EN1-91, Type V Endless Web Sling, Ser # SN7, (GSE)	NONE	JSC-USA		EAR99	NLR			$10.53	$10.53
12	1	EN1-91, Type V Endless Web Sling, Ser # SN8, (GSE)	NONE	JSC-USA		EAR99	NLR			$10.53	$10.53
13	1	SEG38118907-301, Lifting Sling, S/N N/A (GSE)	NONE	JSC-USA	6	EAR99	NLR	7312.10.2500		$1,500.00	$1,500.00
14	1	1019466, 1/4" Shackle, G-2130, Ser # SN5, (GSE)	NONE	JSC-USA		EAR99	NLR			$4.43	$4.43
15	1	1019466, 1/4" Shackle, G-2130, Ser # SN5, (GSE)	NONE	JSC-USA		EAR99	NLR			$4.43	$4.43
16	1	1019466, 1/4" Shackle, G-2130, Ser # SN5, (GSE)	NONE	JSC-USA		EAR99	NLR			$4.43	$4.43
17	1	1019466, 1/4" Shackle, G-2130, Ser # SN5, (GSE)	NONE	JSC-USA		EAR99	NLR			$4.43	$4.43
		ITEMS PACKED IN 2 SKID BOXES, 1 PALLET, & 1 CONTAINER									
		AES ITN: X20071108010413									
		"REMAINDER OF SHIPMENT VALUED $2,500 OR LESS PER INDIVIDUAL SCHEDULE B NUMBER".									

Total All Sheets: _____

Traffic Management Specialist _____ Date _____

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)

J7-311-006

Date of Request 09/13/07

Johnson Space Center
Export Control Request and Approval Worksheet

Reference Number EA-07-257-003

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: 9/25/07

Requested by: Phil Mott **Org/Company:** EA1 / Jacobs Sverdrup **Phone Number:** (281) 461-5712

Email: phillip.mott@escg.jacobs.com **Fax:** (281) 461-5926

General description of export (spell out acronyms) Flight Vacuum Case Assembly and Inner Cylinder

Is this a temporary export? ☐ Yes ☒ No **If yes, when will it be returned?** 12/01/07

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 into AMS-02 hardware. Contact: Stephen Harrison

To whom is it being exported? *(or attach ProForma invoice)* Scientific Magnetics, Building E1, Culham Science Centre,Abingdon OX14 3DB, UK , tel: 44 1865 409200

What program does this export support? Alpha Magnetic Spectrometer (AMS) - 02 **Date denied parties/entities list checked:** 9/14/07

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

Classification rationale AMS Flight Vacuum Case Assembly and Inner Cylinder are sent for assembly and testing. Classification per memo from NASA HQ/UM to JSC/OZ2, dated 3/28/02. Status of AMS compliance with U.S. Export Regulations.

SECTION 3

Approvals

Stephen Lankin — Date 9/14/07 — (281) 483-8264

Export classifications for this shipment were determined by — Date — Phone

Signature of Export Control Official (ECR or CEA) — Date 9/14/07 — (281) 483-8264 — Date — Phone

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)