

Betsy Ullrich, MS, CHP  
Commercial and R&D Branch  
Division of Nuclear Material Safety  
Nuclear Regulatory Commission, Region I

MS 16  
Q-5

2010 MAY 24 PM 1:11

RECEIVED  
REGION I

Re:  
Lockheed Martin Corporation  
License No. 09-23013-02  
Docket No. 030-30597  
Control No. 144648

20 May 2010

Ms. Ullrich,

1. In response to your request, all Ni-63 sources possessed by Lockheed Martin Space Systems Company at this facility under NRC License No. 09-23013-02 have been sent to authorized recipients. No Ni-63 sources remain at this facility. The high voltage (Ni-63) switch in the Destruct Initiation Unit (DIU) has been replaced with a non-radioactive switch, therefore we will not be receiving any Ni-63 sources in the future.
2. We have not routinely performed leak tests of the Ni-63 sources. We did perform a leak test prior to each shipment of Ni-63 sources and a copy of the last shipment leak test is enclosed. No leakage was ever been detected of any Ni-63 sources at this facility.
3. Please send the amended license as soon as possible as it is needed to close corrective action from a US Navy audit finding.

Thank you for prompt response,



Richard L. Swartz  
LMSS Eastern Range Safety  
Cape Canaveral, FL, 32920  
Ph:(321) 853-9777, Fax:(321) 853-7780  
e-mail: richard.l.swartz@lmco.com

Enclosure: Radioactive Material Shipout Inspection (Leak Test), 4 pages

144648

NMSS/RGN1 MATERIALS-002



P.O. Box 21045 • Kennedy Space Center • FL 32815-0045

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August 26, 2009

HP-09-08-4239

Mr. R. Swartz, MU-5450  
[Richard.I.swartz@lmco.com](mailto:Richard.I.swartz@lmco.com)  
Lockheed Martin Missile and Space Company  
Cape Canaveral AFS, Florida

**RADIOACTIVE MATERIALS SHIPOUT INSPECTION, MACA AREA, CCAFS, FL**

REF: 1) Use Authorization C-IR-10020 (Expires April 1, 2010)  
2) CFR Title 49, U.S. DoT

Attached for your radioactive materials accountability records are copies of the Radioactive Materials Transfer Receipts (45 SW Form 2261), and Radioactive Material Transfer and Shipment Record (45 SW Form 2252), and associated transportation documentation.

The aforementioned ship out was performed on August 7, 2009 by D. S. Lake, Innovative Health Applications - Health Physics Office.

This package was shipped in accordance with specifications and limitation specified in 49 CFR 173.424 for radioactive material, excepted package-instrument or articles, UN2911.

No unsafe conditions were noted during the course of the support provided by this office.

If there are any questions regarding this transmittal, please contact the undersigned at 853-5688.

A handwritten signature in cursive script that reads "Rod Nickell".

Rod E. Nickell, CLSO  
Health Physics Supervisor

DSL/dlr

Attachments: a/s

cc: Capt. B. Livingston, 45 ADOS/SGGB; [bioengfl@patrick.af.mil](mailto:bioengfl@patrick.af.mil)  
Jim Jackson, NOTU/Spp35; [James.jackson@ssp.navy.mil](mailto:James.jackson@ssp.navy.mil)

**RADIOACTIVE MATERIAL TRANSFER RECEIPT**

NUMBER  
**LMSS-1000**

Portions of this report are both required and authorized by law. [Atomic Energy Act of 1954, 42 USCA S2011, et seq. (1973), as amended; the Energy Reorganization Act of 1974, 42 USCA S5801, et seq. (1973), as amended, (Supp. 1976); and CFR, Title 10.] Relevant provisions of the cited authorities provide that failure to report may result in revocation of license and/or the issuance of court orders and/or civil penalties and/or criminal prosecution for certain willful violations.

**SECTION I - ORIGATION INFORMATION (Originator complete this section)**

**A. ITEM DATA**

|  |  |  |
|--|--|--|
| (1) NAME OF ITEM <b>DESTRUCT INITIATOR UNIT</b>  |  | REF. NO (Previous Transfer Receipt)      |
| <b>DIU P/N: Sec (7)</b>  |  | <b>MODEL: DS</b>                         |
| (2) SERIAL NUMBER(S)<br><b>Sec (7)</b>   | (3) ISOTOPE(S)<br><b>Ni<sup>63</sup></b> | (4) ACTIVITY<br><b>1.48 MBq (40 μCi)</b> |
| (5) PHYSICAL AND CHEMICAL FORM OF RADIOACTIVE MATERIAL<br><b>SOLID SEALED ELECTRONIC DEVICE</b>  |  |  |
| (6) ACTIVITY DETERMINED BY (Check one)   |  | DATE DETERMINED                          |
| <input checked="" type="checkbox"/> RECORD INFORMATION <input type="checkbox"/> CALCULATION <input type="checkbox"/> MEASURED BY _____   |  | <b>N/A</b>                               |
| (7) PURPOSE OF ITEM <b>HIGH VOLTAGE SWITCH. 19 UNITS: P/N 564 0035: 8 UNITS: S/Ns 0016, 0023, 0024, 0025, 0027, 0028, 0029, 0031. P/N 6927143: 11 UNITS: S/Ns 0291, 0292, 0293, 0294, 0295, 0296, 0297, 0298, 0299, 0302, 0309</b> |  |  |
| (8) LEAK TEST CERTIFICATE PROVIDED WITH THIS TRANSFER <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> EXEMPT  |  |  |

**B. ACCOUNTABILITY DATA**

|  |                                      |  |
|--|--------------------------------------|--|
| (1) TRANSFERRED FROM (LICENSEE'S NAME)<br><b>LMSS-ER</b> | LICENSE NUMBER<br><b>09-23013-02</b> | (Check one)<br><input checked="" type="checkbox"/> NRC <input type="checkbox"/> STATE OF _____     |
| (2) TRANSFERRED TO (LICENSEE'S NAME)<br><b>LMSS-SV</b>   | LICENSE NUMBER<br><b>0169-43</b>     | (Check one)<br><input type="checkbox"/> NRC <input checked="" type="checkbox"/> STATE OF <b>CA</b> |

**C. RESPONSIBLE INDIVIDUAL (Shipper's Radiological Safety Officer)**

|  |                                 |                        |                                 |
|--|---------------------------------|------------------------|---------------------------------|
| (1) SIGNATURE<br><i>R. Deant</i>   | TITLE<br><b>SAFETY ENGINEER</b> | DATE<br><b>8/19/09</b> | TELEPHONE NO<br><b>853-9777</b> |
| (2) ORIGINATING ORGANIZATION (Complete address - Include Zip Code)<br><b>LMSS, BOX 246, CAPE CANAVERAL, FL 32920</b> |                                 |                        |                                 |

**D. SHIPPING DATA**

|  |   |  |
|--|---|--|
| (1) DATE SHIPPED<br><b>8/21/09</b>                       | (2) ADDRESSED TO (Include Zip code)<br><b>LMSS<br/>SUNNYVALE, CA 94089</b>  | (3) MODE OF SHIPMENT (Specify)<br><b>AIR</b> |
| (4) NAME OF CARRIER (BAY GLOBAL)<br><b>D.B. SCHENKER</b> | (5) TRANSPORTATION DOCUMENTATION (Give name & no. of shipping doc.)<br><b>DD 1145 VOUCHER NUMBERS:<br/>09-C-1009-002570 (11EA) 09-C-1009-002558 (8EA)</b> |  |

**SECTION II - DESTINATION INFORMATION (Receiver complete this section) FAX TO (321) 823-7750**

**A. RECEIPT INFORMATION**


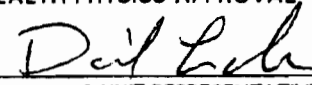
|  |               |
|--|---------------|
| (1) DATE ITEM RECEIVED                                 | (2) CONDITION |
| (3) INFORMATION IN BLOCK _____ SHOULD BE CORRECTED TO: |               |

**B. RESPONSIBLE INDIVIDUAL (Receiver's Radiological Safety Officer)**

|                               |  |                        |                                     |
|-------------------------------|--|------------------------|-------------------------------------|
| SIGNATURE<br><i>D. H. ...</i> | TITLE<br><b>Environ Hse Mgr Spec. (HP)</b> | DATE<br><b>8-20-09</b> | TELEPHONE NO<br><b>321-853-7288</b> |
|-------------------------------|--|------------------------|-------------------------------------|

**C. DISPOSITION OF ITEM**

|                              |              |
|------------------------------|--------------|
| NAME OF CUSTODIAN            | TELEPHONE NO |
| (2) DISPOSITION AND LOCATION |              |

| RADIOACTIVE MATERIAL<br>TRANSFER AND SHIPMENT RECORD (Outbound)  |                           |                               |  | VOUCHER NUMBER  |   |               |
|--|---------------------------|-------------------------------|--|-----------------|---|---------------|
| DATE RECEIVED FOR SHIPMENT<br>8/21/09  | DATE SHIPPED<br>8/21/09   | CONDITION OF PACKAGE<br>GOOD  | NO. OF CONTAINERS<br>1CA PALLET  |                 |   |               |
| FROM: (Name of initiator of shipment)<br>LMSSC<br>BOX 246, CAPE CANAVERAL, FL 32920  |                           |                               | TO: (Consignee & destination of shipment)<br>LOCKHEED MARTIN SPACE SYSTEMS CO<br>1111 LOCKHEED WAY<br>SUNNYVALE, CA 94089-5404 |                 |   |               |
| GBL NUMBER   |                           | CARRIER                       | PRO NUMBER   |                 |   |               |
| PERSON (Name to be contacted related to shipment)<br>NOTU COMMAND DUTY OFFICER<br>321-853-1244   |                           | MARKED FOR DATA               |  |                 |   |               |
| MODE OF MOVEMENT   |                           | PACKAGING UNIT REP. SIGNATURE |  |                 | DATE  |               |
| TO BE COMPLETED BY HEALTH PHYSICS OR 45 SW RADIATION PROTECTION OFFICER  |                           |                               |  |                 |   |               |
| NAME OF PRINCIPAL RADIOACTIVE CONTENT  | CHEMICAL OR PHYSICAL FORM | ACTIVITY OF CONTENT           | TRANSPORT GROUP OR FORM  | TRANSPORT INDEX | SURFACE CONTAMINATION   | TYPE OF LEVEL |
| Ni <sup>63</sup>   | SOLID                     | 1.48 MBq<br>(40 µCi)          | UN2911   | N/A             | ALPHA:<br><22.0 dpm/100cm <sup>2</sup><br><0.04 Bq/cm <sup>2</sup><br>BETA/GAMMA:<br><220. dpm/100cm <sup>2</sup><br><0.40 Bq/cm <sup>2</sup> | EXEMPT        |
| This is to certify that the above named articles are properly described and are packed and marked and are in proper condition for transportation according to the directives prescribed by the Department of Transportation or other applicable directives. This shipment (is/is not) within the limitations prescribed for passenger-carrying aircraft.   |                           |                               |  |                 |   |               |
| SHIPPER RSO<br>   |                           |                               | LMSSC SAFETY   |                 | DATE<br>8/19/09   |               |
| PACKAGED BY<br>RANDY JOHNSON AND<br>RON FRISBEE  |                           |                               | LMSSC MATERIAL   |                 | DATE<br>8/19/09 AND<br>8/20/09  |               |
| HEALTH PHYSICS APPROVAL<br>   |                           |                               | INSTRUMENT USED<br>E-520/GAMMA RCD.  |                 | DATE<br>8/20/09   |               |
| PACKAGING UNIT REPRESENTATIVE INSPECTING CONTAINERS/LABELS<br>Tom JRBANEK  |                           |                               | LMSSC PA   |                 | DATE<br>8/20/09   |               |
| REMARKS<br><br>THIS PACKAGE CONFORMS TO THE CONDITIONS AND LIMITATIONS SPECIFIED IN 49 CFR 173.424 FOR EXEMPTED RADIOACTIVE MATERIAL, INSTRUMENTS, AND ARTICLES; UN 2911. UPON ARRIVAL, NOTIFY LMSSC RADIATION SAFETY OFFICER, DON MERCADO, EK-20, B157, FAC 1, TEL: (408) 742-0759.<br><br>RECEIVER: COMPLETE SECTION II (DESTINATION INFORMATION) OF RADIOACTIVE MATERIAL TRANSFER RECEIPT, 45SW FORM 2261, AND FAX TO (321) 853-7780 OR MAIL TO LMSSC-ER RADIATION SAFETY OFFICER, PO BOX 246, CAPE CANAVERAL, FL 32920.<br><br>IF RECEIPT FORM 2261 DOES NOT ACCOMPANY SHIPMENT NOTIFY LMSSC-ER RSO: RICK SWARTZ, 88-50, (321) 853-9777. |                           |                               |  |                 |   |               |
| NOTE: For shipments of fissile class radioactive materials, refer to applicable transport directives.  |                           |                               |  |                 |   |               |
| DISTRIBUTION ORIGINAL - RADIATION PROTECTION OFFICER   |                           |                               |  |                 |   |               |
| COPY 1 - HEALTH PHYSICISTS   |                           |                               | COPY 3 - RETAINED BY SHIPPER OR CONSIGNOR  |                 |   |               |
| COPY 2 - FOR USE BY TRANSPORTATION   |                           |                               | COPY 4 - RETAINED BY ORIGINATOR  |                 |   |               |

**NASA / KENNEDY SPACE CENTER  
RADIATION PROTECTION PROGRAM  
KENNEDY SPACE CENTER, FL 32899**

**RADIOACTIVE MATERIAL, EXCEPTED PACKAGE  
INSTRUMENTS OR ARTICLES  
UN2911**

This is to certify that this package conforms to all packaging requirements of the US Department of Transportation and the International Air Transport Association rules and regulations regarding the shipment of radioactive materials contained in instruments or manufactured articles, UN2911.

This package conforms to the conditions and limitations specified in 49 CFR 173.424 and IATA Section 10.5.9.5 for radioactive material, excepted package-instruments or articles, UN2911.

The radiation level at 4" from any point on the external surface of any unpackaged instrument or article does not exceed 0.1 mSv/hour (10.0 mRem/hour).

Also, the radiation level at any point of the external surface of a package bearing the instrument or article does not exceed .005 mSv/hour (0.5 mRem/hour), or for exclusive use domestic shipments, 0.02 mSv/hour (2.0 mRem/hour).

The non-fixed radioactive contamination on this external package surface does not exceed the following:

alpha (a): 0.04 Bq/cm<sup>2</sup> (22.0 dpm/cm<sup>2</sup>)  
beta/gamma (bg): 0.40 Bq/cm<sup>2</sup> (220.0 dpm/cm<sup>2</sup>)

The following statement must be entered on the Air-Way Bill in the "Nature and Quantity of Goods" box:

**"RADIOACTIVE MATERIAL, EXCEPTED PACKAGE-INSTRUMENTS OR ARTICLES, UN2911"**

NAME: DAVID Lake

TITLE: Enviro Health Spec. (HP)

DATE: 8-20-09

No other labels are required.