

**Princeton University  
Environmental Health  
and Safety**

262 Alexander Street  
Princeton, NJ 08544  
(609) 258-5294  
(609) 258-1804 (fax)

**Fax**

P-7

29-05185-24  
03000882

**To:** Mr. Thomas Thompson **From:** Sue M. Dupre

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**Fax:** 610 337-5269 **Pages:** 6, including cover sheet

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**Phone:** **Date:** May 16, 2005

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**Re:** Disposition of Am-241 and Cs-137 sources (Mail Control 136788)

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☐ **Urgent**    ☐ **For Review**    ☐ **Please Comment**    ☐ **Please Reply**    ☐ **Please Recycle**

**• Comments:**

Dear Mr. Thompson,

Enclosed with this cover page, you'll find two sets of documents:

1. A letter dated April 21 from Shelby Leonard at Los Alamos National Lab to Samuel Collins (NRC Regional Administrator) documenting that a 431 mCi Am-241 source was removed from Princeton University and was placed into storage at NSSI.
2. A letter dated December 29, 2004, from Ecology Services, Inc. acknowledging the receipt of radioactive waste from Princeton University and documenting its arrival at RACE, LLC on December 20, 2004. This letter is accompanied by the processor-signed manifest. The source in question is the 144 mCi Cs-137 source listed on the second page of the manifest.

These are the two sources mentioned in Princeton University's request to amend License 29-05185-24 (Mail Control 136788). If you need any further information relating to the disposal of these sources, please do not hesitate to contact me at (609) 258-6252.

Sue Dupre, Radiation Safety Officer  
Princeton University

136788

NMSS/RGNI MATERIALS-002



*N2 Advanced Nuclear Technology  
Off-Site Source Recovery (OSR) Project*  
P.O. Box 1663, Mail Stop: J552  
Los Alamos, New Mexico 87545  
505-667-6701/Fax: 665-7913

Date: April 21, 2005  
Refer to: N-2-05:29

Samuel J. Collins, Regional Administrator  
Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406-1415

Re: ASRO#2005:14, License Number 29-05185-24

Dear Mr. Collins:

Enclosed please find a signed *Authorization to Ship/Relinquishment of Ownership* form concerning:

Princeton University  
262 Alexander Street  
Princeton, NJ 08540

The radioactive source described on the form has been removed from Princeton University in Princeton, NJ and is in storage at NSSI/Sources and Services Inc. in Houston, TX. This source has been transferred to Department of Energy (DOE) ownership and is being stored under DOE license exemption.

This action was completed as part of the Off-Site Source Recovery (OSR) Project managed by this office. If you need any further information on this action, please contact the OSR Project Office at 505/667-6701.

Sincerely,

A handwritten signature in cursive script that reads 'Shelby Leonard'.

Shelby Leonard  
Team Leader OSR Project

SL/lh

Cy: Stephen Elwood, Princeton University  
Michele Burgess, NRC HQ  
Robert Campbell, U.S. DOE, NA-211  
Joel Grimm, DOE-AL/WMD  
N2 File, B228  
OSRP File, J552

# Los Alamos

NATIONAL LABORATORY

MAR 11 2005

ASRO # 2005:14

## Off-Site Source Recovery Project Authorization to Ship/Relinquishment of Ownership

SOURCE OWNER: Princeton University  
LICENSE: 1 NRC - Region I  
No.: 29-05185-24  
CONTACT NAME: Stephen Elwood  
ADDRESS: 262 Alexander Street  
Princeton, NJ 08540  
NRC Radioactive Material License No. 29-05185-24  
TELEPHONE: 609-258-6271  
FAX: 609-258-1804

Princeton University is authorized by the University of California at Los Alamos National Laboratory (UC/LANL), on behalf of the U.S. Department of Energy (DOE), to transfer the sealed source(s) indicated below to the following designated UC/LANL support subcontractor:

NSSI / Sources & Services, Inc.  
Texas Department of State Health Services  
Radioactive Material License No. L02991

Princeton University hereby relinquishes and UC/LANL, on behalf of DOE, hereby accepts all ownership of the sealed source(s) indicated below upon receipt or acceptance of the source(s) by the designated UC/LANL support subcontractor.

### SOURCE INFORMATION

Type:	Model:	Serial No:	Activity (Ci):
241Am	SK-527	G-694	0.431

SOURCE OWNER:

OFFICIAL NAME/TITLE: Sue M. Dupre  
NAME (Please Print or Type)  
SIGNATURE Sue Dupre

University  
Health Physicist  
TITLE (Please Print or Type)  
DATE 3-3-05

UC/LANL AUTHORIZATION:

OFFICIAL NAME/TITLE: Shelby J. Leonard, Team Leader, Off-Site Source Recovery Project

SIGNATURE Shelby J. Leonard

DATE 3-3-05

ACKNOWLEDGEMENT OF RECEIPT BY DESIGNATED UC/LANL SUPPORT SUBCONTRACTOR:  
NAME OF UC/LANL SUPPORT SUBCONTRACTOR: NSSI / Sources & Services, Inc.

OFFICIAL NAME/TITLE: Carlos R. INCO  
NAME (Please Print or Type)  
SIGNATURE Carlos

Radioactive Material Specialist  
TITLE (Please Print or Type)  
DATE 3-3-05



ECOLOGY SERVICES, INC.

10220 Old Columbia Road  
Columbia, Maryland 21046  
(410) 381-2600  
1-800-932-7299  
Fax (410) 381-2602

12/29/2004

Ms. Sue Dupre  
Waste Manager  
Princeton University  
Environmental Health & Safety  
262 Alexander Street  
Princeton, NJ 08544

Dear Ms. Dupre:

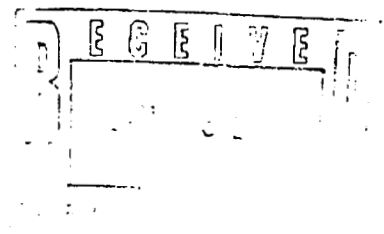
Enclosed is your copy of the processor-signed manifest 41213-01 acknowledging receipt of 9 container(s) of radioactive waste shipped from Princeton University on 12/10/2004.

The shipment arrived at RACE, LLC on 12/20/2004. You should keep this document with the original signed manifest per the requirements of 10 CFR part 20, Appendix G. Please call me if you have any questions and thank you for using our services.

Sincerely,

Nanci Thyne  
Administrative Assistant

Enclosures



ESI Form 540 (6/93)  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>		This form contains all of the information required in the NRC Form 540 (12/75)		5. Shipper - Name and Facility Ecology Services, Inc. for: Princeton University Environmental Health & Safety 262 Alexander Street Princeton, NJ 08544		Shipper ID Number N/A <input type="checkbox"/> Collector <input type="checkbox"/> Processor		7. NRC Form 540 and 540A NRC Form 541 and 541A NRC Form 542 and 542A Additional Information Page 1 of 2 Page(s) 2 Page(s) 0 Page(s)		8. Manifest Number (Use this number on all consecutive pages) 41213-01							
Emergency Telephone Number (include Area Code) (410) 377-3742				User Permit Number		Shipment Number 41213		<input checked="" type="checkbox"/> Generator type (packs) (Other)		9. Consignee - Name and Facility Address RACE, LLC 2550 Channel Ave. Memphis, TN 38113							
Organization Ecology Services, Inc.				Contact Sue Dupre		Telephone Number (include Area Code) (800) 258-5294		Signature <i>[Signature]</i> Date 12/20/04		10. Certification This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 70 and 71, or equivalent state regulations.							
2. an "Exclusive Use" shipment? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3. Total number of packages identified on this manifest --> 9		Carrier - Name and Address 1) Ecology Services, Inc. 10220 Old Columbia Rd Columbia, MD 21046 2) Tri-State Motor Transit PO Box 113 Joplin, MO 64802		EPA ID Number MO0 085 038 998 Shipping Date 12/10/04		Telephone Number (include Area Code) 800-234-8768		Authorized Signature <i>[Signature]</i> Date 12-10-04							
4. Does EPA regulated waste requiring a manifest accompany this shipment? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "yes" provide manifest number		EPA Manifest Number N/A		Contact: 1) Paul Slozky 2) Cassie Gardner Signature - <i>[Signature]</i> 12-10-04 Signature - <i>[Signature]</i> 12-10-04		Title Worker Manager		Date 12-10-04									
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL: "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY IN CI UNITS		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
Radioactive Material, Excepted Package - Limited Quantity of Material, 7, UN 2910		N/A		N/A		Salts on metal		88Y 160Tb 166mHo		0.808 MBq (0.022 mCi)		N/A		839.9 kg (1850 lb)		PRINJ 41209-01	
Radioactive Material, Excepted Package - Limited Quantity of Material, 7, UN 2910		N/A		N/A		Salts on metal		88Y 160Tb 166mHo		0.111 MBq (0.003 mCi)		N/A		113.5 kg (250 lb)		PRINJ 41209-02	
Radioactive Material, Excepted Package - Limited Quantity of Material, 7, UN 2910		N/A		N/A		Salts on metal		88Y 160Tb 166mHo		0.111 MBq (0.003 mCi)		N/A		109.0 kg (240 lb)		PRINJ 41209-03	
Radioactive Material, Excepted Package - Limited Quantity of Material, 7, UN 2910		N/A		N/A		Salts on metal		88Y 160Tb 166mHo		0.111 MBq (0.003 mCi)		N/A		36.3 kg (80 lb)		PRINJ 41209-04	
Radioactive Material, Excepted Package - Limited Quantity of Material, 7, UN 2910		N/A		N/A		Salts on metal		88Y 160Tb 166mHo		0.111 MBq (0.003 mCi)		N/A		17.3 kg (38 lb)		PRINJ 41209-05	
Radioactive Material, Excepted Package - Limited Quantity of Material, 7, UN 2910		N/A		N/A		Salts on metal		88Y 160Tb 166mHo		0.111 MBq (0.003 mCi)		N/A		21.3 kg (47 lb)		PRINJ 41209-06	
Radioactive Material, Excepted Package - Limited Quantity of Material, 7, UN 2910		N/A		N/A		Salts on metal		88Y 160Tb 166mHo		0.111 MBq (0.003 mCi)		N/A		40.0 kg (88 lb)		PRINJ 41209-07	
Radioactive Material, Excepted Package - Limited Quantity of Material, 7, UN 2910		N/A		N/A		Salts on metal		88Y 160Tb 166mHo		0.111 MBq (0.003 mCi)		N/A		43.1 kg (95 lb)		PRINJ 41209-08	
For Consignee Use Only																	

HSI Form 540A, V1.0, (6/76)