



NATIONAL GALLERY OF ART  
PAPER CONSERVATION DEPARTMENT

May 13, 2014

Br 2  
03036534

REC-61 05 19 14 14 07 05

USNRC Region 1  
2100 Renaissance Boulevard  
Suite 100  
King of Prussia, PA 19406-2713  
Attn: Mr. Courtemanche

Re: License No. 19-30898-01

Dear Mr. Courtemanche,

Please accept this Letter of Termination for the above license no. 19-30898-01, issued to license holder National Gallery of Art, Conservation Division, Kimberly Schenck and scheduled to expire on May 31, 2014.

In compliance with the NRC, we hired contractor RSO, Inc. to package, pick up and dispose of all licensed radioactive material. This included (2) each sealed source Carbon 14 methacrylate plates. Attached is RSO's shipping manifest and receipt. The RSO technician scanned the packaged plates before he left the building and concluded no leaking sources. I have also attached our completed Certificate of Disposition of Materials, NRC Form 314, which I mailed to the King of Prussia office on Friday, May 9, 2014.

If you have any questions, please call me directly at (202) 842-6442.

Sincerely,

Kimberly Schenck  
Head of Paper Conservation Department

4TH STREET AND CONSTITUTION AVENUE, NW  
WASHINGTON, DC 20565

☎ 202-842-6445

FAX 202-842-6886

583951

NMSS/RGN1 MATERIALS-002

FORM 540 Radiation Service Organization <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>		5. SHIPPER - NAME AND FACILITY National Gallery of Art 4th Street and Constitution Ave., NW Washington, DC 20565		SHIPPER I.D. NUMBER NA <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR <input checked="" type="checkbox"/> GENERATOR TYPE (Specify) G		7. FORM 540 AND 540A PAGE 1 OF 1 PAGE(S) FORM 541 AND 541A 1 PAGE(S) FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION None PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) 16496	
1. EMERGENCY TELEPHONE NUMBER 1-800-424-9300 <i>(Include Area Code)</i>		NA		SHIPMENT NUMBER 16496		9. CONSIGNEE - Name and Facility RSO, INC 5204 Minnick Road Laurel, MD 20707		CONTACT David Wellner TELEPHONE (Include Area Code) (301) 953-2482	
ORGANIZATION ChemTrec CCN-19279		CONTACT Michelle Stein		TELEPHONE NUMBER (Include Area Code) (202) 843-6785		SIGNATURE - <i>Authorized consignee acknowledging waste receipt</i> <i>David Wellner</i>		DATE 5.9.14	
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1		6. CARRIER - Name and Address RSO, Inc. 5204 Minnick Road Laurel, MD 20707 Truck #: 02234 Trailer #: NA		EPA I.D. NUMBER MDD-06-027-9089		10. CERTIFICATION This is to certify that the herein-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 20 and 61, or equivalent state regulations.	
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number =====>		EPA MANIFEST NUMBER		CONTACT David Wellner		SHIPPING DATE 05/09/2014		AUTHORIZED SIGNATURE <i>Kimberly Phinck</i>	
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	
UN 2910, Radioactive material, excepted package-limited quantity of material, 7 ,Box		NA		NA		Solid Lab Trash		C-14	
								16. TOTAL PACKAGE ACTIVITY MBq	
								17. LSA/SCO CLASS	
								18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	
								19. IDENTIFICATION NUMBER OF PACKAGE	
								4.3519E+02 1.1762E+01 NA \$ LBS; 1.3 FT3 59905	
FOR CONSIGNEE USE ONLY				20.					
TENNESSEE "LICENSE FOR DELIVERY" NO _____									
SOUTH CAROLINA TRANSPORT PERMIT NO _____									
US ECOLOGY GENERATOR NO _____									
US ECOLOGY PERMIT NO _____									

<b>FORM 541</b> <b>Radiation Service Organization</b>  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b> <b>CONTAINER AND WASTE DESCRIPTION</b>  Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	<b>1. MANIFEST TOTALS</b>							<b>2. MANIFEST NUMBER</b> 16496	
	NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME		NET WASTE WEIGHT		SPECIAL NUCLEAR MATERIAL (grams)			
		m3	0.0368	kg	2.2680	U-233	U-235	Pu	Total
	1	ft3	1.3000	lb	5.0000	NP	NP	NP	NP
	<b>ACTIVITY</b>								SOURCE (kg)
ALL NUCLIDES		TRITIUM		C-14		Tc-99		I-129	
MBq		NP		4.3519E+02		NP		NP	
mCi		NP		1.1762E+01		NP		NP	
								SHIPMENT ID NUMBER	
								NA	

DISPOSAL CONTAINER DESCRIPTION				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										18. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C						
5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER	6. CONTAINER DESCRIPTION (See Note 1) PROCESS REQUESTED (See Note 1A) BURIAL/DISPOSITION (See Note 2A)	7. VOLUME  (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT  (kg) (lb)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100cm2)		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION								
					ALPHA	BETA-GAMMA	WASTE DESCRIPTOR (See Note 2)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL, OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT								
											RADIONUCLIDES									
											MBq			mCi						
59905/NatGallery/Art	19 FIBERBOARD BOX DI E	0.0368  1.3000	2.2680  5.0000	2.000E-04  2.000E-02	<1.670E-06  <1.000E+02	<1.670E-06  <1.000E+02	59-INCINERABLE TRASH	0.0368  1.3000	NA	Lab Trash/NP	NP	C-14	4.3519E+02	1.1762E+01	AU					
<b>Shipment Totals</b>											<b>Subtotal</b>			<b>1.1762E+01</b>						
<b>Total</b>											<b>Total</b>			<b>4.3519E+02</b>			<b>1.1762E+01</b>			
<b>Shipment Totals</b>														<b>4.3519E+02</b>			<b>1.1762E+01</b>			

**Note 1: Container Description Codes.** For containers/waste requiring disposal in approved structural overpacks the numerical code must be followed by "OP."

1. Wooden Box or Crate	9. Demineralizer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	19. Other. Describe in Item 6, or additional page
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

**Note 1A: Process Requested**

C	Compaction
SR	Steam Reforming
DI	Direct Incineration
SI	Sort & Incinerate
D	Decom
G	Green is Clean
M	Metal Melt
T	Trans-Ship
LJ	Liquid for Incineration
OI	Oil for Incineration
O	Other (describe)

**NOTE 2: Waste Descriptor Codes.** (Choose up to three which predominate by volume.)

20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/Concentrates
21. Incinerator Ash	30. Carbon Ion-exchange Media	39. Compactable Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompactable Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcasses)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	59. Other. Describe in Item 11, or additional page
27. Mechanical Filter	36. Sealed Source/Device	
28. EPA or State Hazardous	37. Paint or Plating	

**NOTE 2A: Burial/Disposition Site**

B	Barnwell Waste Management
E	Envirocare
R	Richland, WA
PR	Process and Return
O	Other

**Note 3: Solidification and Stabilization Media Codes.** (Choose up to three which predominate by volume. For media meeting disposal site structural stability requirements, the numerical code must be followed by "S" and the media vendor and brand name must also be identified in Item 13. Code 100=NONE REQUIRED)

**Solidification**

90. Cement	94. Vinyl Ester Styrene
91. Concrete (encapsulation)	99. Other. Describe in Item 13, or additional page
92. Bitumen	100. None Required.
93. Vinyl Chloride	

plates picked up 5-9-14

NRC FORM 314  
(02-2014)  
10 CFR 30.36(j)(1);  
40.42(j)(1); 70.38(j)(1);  
and 72.54(k)(5)(1)(1)



U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0028

EXPIRES: 02/28/2017

### CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submital is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to [InfoCollect.Resource@nrc.gov](mailto:InfoCollect.Resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOH-10282, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE NAME AND ADDRESS

National Gallery of Art, Conservation Division, Kimberly Schenck  
401 Constitution Avenue, Northwest  
Washington, DC 20565

LICENSE NUMBER

19-30898-01

DOCKET NUMBER

030-36534

LICENSE EXPIRATION DATE May 31, 2014

**COPY**

**A. LICENSE STATUS (Check the appropriate box)**

- This license has expired.
- This license has not yet expired; please terminate it.

**B. DISPOSAL OF RADIOACTIVE MATERIAL**

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
- 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner.
  - a. Transfer of radioactive materials to the licensee listed below:
  - b. Disposal of radioactive materials:
    - 1. Directly by the licensee:
    - 2. By licensed disposal site:
    - 3. By waste contractor:  
RSO, Inc., 5206 Minnick Road, Laurel, MD 20707, Attention: Christina Hirschmann, 301-953-2482 x. 309
  - c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

**C. SURVEYS PERFORMED AND REPORTED**

- 1. A radiation survey was conducted by the licensee. The survey confirms:
  - a. the absence of licensed radioactive materials
  - b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
- 2. A copy of the radiation survey results:
  - a. is attached; or  b. is not attached (Provide explanation); or  c. was forwarded to NRC on: \_\_\_\_\_ Date
- 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
  - a. The results of the latest leak test are attached; and/or
  - b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME	TITLE	TELEPHONE (Include Area Code)	E-MAIL ADDRESS
Kimberly Schenck	Head Paper Conservation	202-842-6442	k-schenck@nga.gov

Mail all future correspondence regarding this license to: Department

National Gallery of Art, 2000B South Club Drive, Landover, MD 20785

**C. CERTIFYING OFFICIAL**  
I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE	SIGNATURE	DATE
Kimberly Schenck Head of Paper Conservation	<i>Kimberly Schenck</i>	5-9-2014

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

16496

**RSO, Inc.**

PO Box 1450  
 5204 Minnick Rd.  
 Laurel, Maryland 20725-1450  
 Balt. (410) 792-7444 Wash. (301) 953-2482  
 FAX (301) 497-6363

**Receipt**

COMPANY NAME: National Gallery of Art		
ADDRESS: 4th Street and Constitution Ave., NW		
CITY: Washington	STATE: DC	ZIP: 20565
CONTACT: Michelle Stein	TELEPHONE: 202-842-6765	FAX:
CONTRACT OR PO No.:	EMAIL:	TECHNICIANS INITIALS:

**Radioactive Material Collected**

QTY	SIZE	TYPE	QTY	SIZE	TYPE
X		DRUM(S) LIQUID SCINTILLATION VIALS	X	3.9FT <sup>3</sup>	BOX(S) DECAY & STORAGE, INCINERATION
X		DRUM(S) SOLID WASTE, COMPACTION & BURIAL	X		BOX(S) DECAY & STORAGE, INCINERATION
X		DRUM(S) SOLID WASTE, INCINERATION & BURIAL	X		SOLIDIFIED URANIUM, THORIUM, BURIAL
X		BOX(S) SOLID WASTE, INCINERATION & BURIAL	X	N/A	HOURL(S) TECHNICIAN LABOR X _____
X		DRUM(S) AQUEOUS LIQUID, INCINERATION	X		
X			X		
X			X		

## COMMENTS:

**WE RECYCLE LEAD****Supplies**

QTY	SIZE	TYPE	QTY	SIZE	TYPE
X	55 GAL	STEEL DRUM NEW	X	5 GAL	4MIL POLYETHYLENE LINER(S)
X	55 GAL	STEEL DRUM RECONDITIONED	X	30 GAL	4MIL POLYETHYLENE LINER(S)
X	30 GAL	STEEL DRUM NEW	X	55 GAL	4MIL POLYETHYLENE LINER(S)
X	30 GAL	STEEL DRUM CERTIFIED TYPE A NEW	X	94 LB	BAG(S) PORTLAND CEMENT
X	5 GAL	STEEL DRUM CERTIFIED TYPE A NEW	X	18 LB	BAG(S) CELL SORB
X	3.9FT <sup>3</sup>	FIBERBOARD BOX WAXED BOTTOM	X	25 LB	BAG(S) FLOOR DRY ABSORBENT
X	1.3FT <sup>3</sup>	FIBERBOARD BOX WAXED BOTTOM	X		PE PAIL, OPENHEAD W/LID
X		POLYPROPYLENE DRUM NEW	X		

X

Signature of Company Representative

Date

Original - Accounting

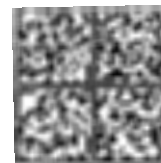
Copy 1 - Accounting

Copy 2 - Warehouse

Copy 3 - Customer

NATIONAL GALLERY OF ART  
DCL-PA

CAF DISTRICT  
MD 207  
14 MAY '14  
PM 1 L



USNRC Region 1  
2100 Renaissance Boulevard  
Suite 100  
King of Prussia, PA 19406-2713  
Attn: Mr. Courtemanche

UNITED STATES POSTAGE  
U.S. OFFICIAL MAIL  
PENALTY FOR  
PRIVATE USE \$300  
PINEY BOWES  
02 1M \$ 00.48<sup>0</sup>  
0004206822 MAY 14 2014  
MAILED FROM ZIP CODE 20004

19406-2713

