

LANL FFCO 2003



**Waste Disposition Program**

P.O. Box 1663, Mail Stop J591  
Los Alamos, New Mexico 87545  
(505) 667-6952 / FAX: (505) 665-8118

Date: October 8, 2003  
Refer to RRES/SA-2003-440

**CERTIFIED MAIL-RETURN RECEIPT REQUESTED**

Ms. Lee Winn  
Environmental Specialist  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building. 1  
Santa Fe, New Mexico 87505-6303



**SUBJECT: NOTICE OF COMPLETION OF OFF-SITE WASTE SHIPMENT ACTIVITY 3.2 (K) IN THE COMPLIANCE PLAN VOLUME (CPV), SITE TREATMENT PLAN (STP), LOS ALAMOS NATIONAL LABORATORY (LANL)**

Dear Ms. Winn:

The purpose of this letter is to notify the New Mexico Environment Department (NMED) of completion of required activities set forth in the Federal Facility Compliance Order (FFCO). Activity 3.2 (K) in the CPV requires that *"(w)ithin 45 days of receipt of waste at treatment facility or within 45 days after completion of parallel option"* the Department of Energy (DOE) and the University of California(UC), *"(p)rovide documentation to NMED that waste was received at off-site facility or provide notification of parallel option."*

A shipment that included STP covered waste listed in Section 3.2 (K) of the CPV was initiated on August 26, 2003, and completed on August 28, 2003. The waste was sent to Duratek Bear Creek Operations in Oak Ridge, TN. The total volume of STP waste shipped was 4.08 cubic meters. The volume of STP waste shipped is described in the following table:

STP Section	MWIR Waste ID	Treatability Group	Manifest Number	Volume Shipped (m <sup>3</sup> )
3.2	LA-W934	High Activity	02386	4.08
<b>Total STP Volume Shipped</b>				<b>4.08</b>



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October 8, 2003

Documentation that waste was received at the facility is provided in Enclosure A. Also included as Enclosure B is a Certification Statement prepared in accordance with the requirements of Section XX, "*Documents, Information, and Reporting Requirements*," of the FFCO.

Please contact me (505) 667-6952 or [dwwilburn@lanl.gov](mailto:dwwilburn@lanl.gov) if you have any questions.

Sincerely,



Dianne Williams Wilburn  
STP Project Manager

**Enclosures: a/s**

Cy (w/encl.):

Ms. Sandra Martin, Bureau Chief  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park East, Bldg. 1  
Santa Fe, New Mexico 87505

Bcc (w/o encl.):

J. Orban, WMD, AL  
J. Nunz, DOE, LASO, MS A316  
B. Martin, RRES-DP, MS J552  
D. Wilburn, RRES-SA, MS J591  
E. Louderbough, LC-GL, MS A187  
D. Christensen, FWO-SWO, MS J595  
A. Millensted, FWO-SWO, MS J595  
C. Duy, FWO-SWO, MSJ595  
T. Grieggs, RRES-SWRC, MS K490  
K. Oshel, FWO-SWO, MS J595  
RRES-EA files

Ms. Lee Winn

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October 8, 2003

**ENCLOSURE A**

**DOCUMENTATION THAT WASTE WAS RECEIVED  
AT OFF-SITE FACILITY  
ACTIVITY 3.2 (K)  
SITE TREATMENT PLAN (STP)  
LOS ALAMOS NATIONAL LABORATORY (LANL)**

**ENCLOSURE B  
CERTIFICATION**

**NOTICE OF COMPLETION OF OFFSITE WASTE SHIPMENT  
ACTIVITY 3.2 (K)  
SITE TREATMENT PLAN (STP)  
LOS ALAMOS NATIONAL LABORATORY (LANL)**

I certify that I am the project manager responsible for overseeing the implementation of the Site Treatment Plan for the Los Alamos National Laboratory. To the best of my knowledge and belief, the information in this document is true, accurate, and complete.



10/8/2003

\_\_\_\_\_  
Dianne Williams Wilburn  
STP Project Manager  
Environmental Science and Waste Technology  
Los Alamos National Laboratory  
Operator

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
James Nunz  
Waste Management Program Manager  
Office of Los Alamos Site Operations  
U.S. Department of Energy  
Albuquerque Operations  
Owner/Operator

\_\_\_\_\_  
Date Signed

**This Shipping Order**

must be legibly filled in, in ink, in Indelible Pencil, or in carbon, and retained by the Agent

INTERSTATE TRANSPORTATION SERVICE

Shipper's No. 02386

(Name of Carrier)

Carrier's No. \_\_\_\_\_

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Shipping Order,

at \_\_\_\_\_, 20\_\_\_\_ From LOS ANGELES NATIONAL LABORATORY, P.O. BOX 1443, LOS ANGELES, 90044  
 the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to DURATEK REAR ORDER OPERATIONS

(Mail or street address of consignee—For purposes of notification only.)

Destination CAK RIDGE State TX Zip 75830 County \_\_\_\_\_

Delivery Address\*

\*To be filled in only when shipper desires and governing tariffs provide for delivery thereof.

Route 1560 REAR ORDER ROAD

Delivering Carrier \_\_\_\_\_

Car or Vehicle Initials \_\_\_\_\_

No. \_\_\_\_\_

NO. PACKAGES	HAZARDOUS MATERIALS	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (SUBJECT TO CORR)	CLASS OR RATE	✓	Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. Per _____  (Signature of Consignor)  If charges are to be prepaid, write or stamp here, "To be Pre-paid."  Received \$ _____ to apply in prepayment of the charges on the property described hereon.  Agent or Cashier, _____  Per _____ (The signature here acknowledges only the amounts prepaid.)  Charges advanced: \$ _____
1 OT	A	SCRAP METAL FOR RECYCL. RADIOACTIVE MATERIAL, N.O.S., 7, UN2982, SOLID, C14 CO60 CS107 NA22, 1.85e+01 TBq OXIDE  HMT# 03082601  *EMERGENCY PHONE NO. (505) 667-6311  093095350	40,000 P			

SHIPPER'S 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.

SIGNATURE \_\_\_\_\_

TITLE Transporter

\* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight."  
 \*\* Shipper's imprints in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission.

Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.  
 The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_

THIS SHIPMENT IS CORRECTLY DESCRIBED.

CORRECT WEIGHT IS \_\_\_\_\_ LBS.

\*\* The fibre boxes used for this shipment conform to the specifications set forth in the box makers certificate thereon, and all other requirements of the Consolidated Freight Classification.

Per \_\_\_\_\_

Shipper

Shipper, Per \_\_\_\_\_

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

Permanent post office address of shipper \_\_\_\_\_

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Estimated burden per response to comply with this information collection request: 46 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimates to the Records Management Branch (1-8 65) U.S. Nuclear Regulatory Commission, Washington, DC 20455-0061, or by internet e-mail to [rla1@nrc.gov](mailto:rla1@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOS-10202, (3150-0164), Office of Management and Budget, Washington, DC 20503. If a manifest 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.

NRC FORM 540 (7-2001)		U.S. NUCLEAR REGULATORY COMMISSION		SHIPPER - NAME AND FACILITY		SHIPPER I.D. NUMBER		7. NRC FORM 540 AND 540A		8. MANIFEST NUMBER							
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		Lee Alamos National Laboratory PO Box 1643 MS J696 (Chris Duy) Lee Alamos, NM 87546		MM080010616		<input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR <input checked="" type="checkbox"/> GENERATOR TYPE (Specify) G		PAGE 1 OF 1 PAGE(S) 1 PAGE(S) None PAGE(S) None PAGE(S)		(Use this number on all continuation pages) 03 Duratek Crsk							
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 505-657-6211		USER PERMIT NUMBER T-TM812-L02		SHIPMENT NUMBER 294 Q51059		EPA I.D. NUMBER TND81773096		8. CONSIGNEE - Name and Facility Duratek Bear Creek Operations 1660 Bear Creek Road Oak Ridge, TN 37830		CONTACT Jody Mioduski Jim Stout TELEPHONE (Include Area Code) 865-884-7336 865-481-0222 DATE 8/28/03							
ORGANIZATION EMR / EM-SWO		CONTACT Chris Duy		TELEPHONE NUMBER (Include Area Code) 505-657-6854		SIGNATURE - Authorized consignee acknowledging waste receipt <i>[Signature]</i>		10. CERTIFICATION CURE 1777		DATE 8/28/03							
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1		6. CARRIER - Name and Address Hizman Transported on Services, Inc 1680 Bear Creek Road Oak Ridge, TN 37830		SHIPPING DATE 09/28/2003		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 applicable requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.		DATE 8/28/03							
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number _____		EPA MANIFEST NUMBER		CONTACT Karen Kirby		TELEPHONE (Include Area Code) 800-233-8923		AUTHORIZED SIGNATURE <i>[Signature]</i>		TITLE WSM							
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 (MBq)		17. LSARCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
Radioactive material, n.o.s., 7, UN2982 Scrap metal for recycle		White-I		NA		SOLID OXIDE		Cs 137 Co 60 N 22 C 14		1.85E+05		NA				C93036359	
FOR CONSIGNEE USE ONLY																	
Surrendered 8/28/03 B. Hawser																	

10/01/2003 16:44 FAX 865 483 9499 DURATEK INC. P & L 003

1004

DURATEK INC P & L

10/01/2003 16:46 FAX 865 483 9499

NRC FORM 541 (7-2001) U.S. NUCLEAR REGULATORY COMMISSION										1. MANIFEST TOTALS				2. MANIFEST NUMBER							
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST										SPECIAL NUCLEAR MATERIAL (grams)				03 Duratek Cask							
										U-235		U-238		Pu		Total		3. PAGE 1 OF 1 PAGE(S)			
CONTAINER AND WASTE DESCRIPTION										ACTIVITY (MBq)				4. SHIPPER NAME							
Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste										ALL NUCLIDES		TRITIUM		C-14		Tc-99		I-129		SOURCE (%)	
										1.8500E+05		NP		1.8500E-01		NP		NP		NA	
DISPOSAL CONTAINER DESCRIPTION										WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER											
6. CONTAINER IDENTIFICATION NUMBER/GENERATOR ID NUMBER(S)	7. CONTAINER DESCRIPTION (See Note 1)	8. VOLUME (m3)	9. WASTE AND CONTAINER WEIGHT (kg)	10. SURFACE RADIATION LEVEL (µSv/hr) (mSv/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2)		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION		16. WASTE CLASSIFICATION AS-Class A, B-Class A, B-Class B, C-Class C							
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTION (See Note 2)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3)	13. SORBENT SOLIDIFICATION 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									
68003356N10000010518	2-OP SEALED CONTAINER	5.9834	2000000.0	2.0000E+00	0.0000E+00	0.0000E+00	30-DIHE R SEAL METAL	4.2475	NA	NONE/NP	NP	C-14 Co-60 Cs-137 Na-22	1.8500E-01 1.8500E-01 1.8500E+05 1.8500E-01	BU							
23138783																					

**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	18. Other. Describe in Item 6, or additional page
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

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

20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39. Compressible Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompressible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	58. 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 3: For solidification media that meet disposal site structural stability requirements, the numerical code must be followed by "S."** For all solidification media, the vendor (manufacturer) and brand name must also be identified in Item 13. Code 100=NONE REQUIRED.

<b>Sorption</b>	<b>Solidification</b>
60. Speed Dri	64. Safe T Sorb
61. Celeton	65. Safe N Dri
62. Floor Dry/ Superfine	66. Florco
63. Hi Dri	67. Florco X
	68. Solid A Sorb
	69. Chemal 30
	70. Chemal 50
	71. Chemal 3000
	72. Dicapert HP200
	73. Dicapert HP500
	74. Petroset
	75. Petroset II
	76. Aquaset
	77. Aquaset II
	78. Other. Describe in Item 13, or additional page
	79. Cement
	80. Concrete (encapsulation)
	81. Baumen
	82. Vinyl Chloride
	83. Other. Describe in Item 13, or additional page
	84. Vinyl Ester Styrene
	85. Other. Describe in Item 13, or additional page
	86. None Required