

General

RECEIVED



JUL - 3 2014

NMED
Hazardous Waste Bureau

*Environmental Protection Division
Environmental Compliance Programs (ENV-CP)
PO Box 1663, K490
Los Alamos, New Mexico 87545
(505) 667-0666*

*National Nuclear Security Administration
Los Alamos Field Office, A316
3747 West Jemez Road
Los Alamos, New Mexico, 87545
(505) 667-5794/Fax (505) 667-5948*

*Date: JUL 02 2014
Symbol: ENV-DO-14-0146
LAUR: 14-24694, 14-24665, 14-24671*

Mr. John E. Kieling
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

Dear Mr. Kieling:

Subject: Transmittal of Information Requested During New Mexico Environment Department/Los Alamos National Laboratory Daily Technical Phone Call- Cemented Waste Stream Characterization Information

The purpose of this letter is to transmit information requested during the New Mexico Environment Department (NMED)/Los Alamos National Laboratory (LANL) daily technical phone calls that are currently being held as stipulated within the Administrative Order No. 5-19001 issued by the NMED. During the June 6, 2014 daily technical phone call, NMED personnel requested real-time-radiography (RTR) video and pre-screening information for the 20 containers of the post-1991 cemented transuranic waste stream that were identified to be on-site and requiring remediation. The enclosed information fulfills #8 of the *Requested Information / Pending Issues* table included as part of the written daily submission associated with each daily technical phone call.

Enclosure 1 (LA-UR-14-24694) provides a summary of the general information associated with the 20 containers. The summary includes each of the 20 container identification numbers, whether the storage and container records are available for each container, whether there is RTR video for each of the containers, and a brief explanation of the remediation required for each container. Enclosure 2 (LA-UR-14-24665) contains Waste Storage Record forms (and attached information) as well as container profiles from the Waste Compliance and Tracking System (WCATS) database associated with each of the 20 containers identified above. Enclosure 3 (LA-UR-14-24671) includes electronic copies of the 14 available RTR videos contained on 3 DVDs.

The RTR fast scan videos provided (Enclosure 3) were completed during the prescreen process specified in CCP-TP-066, *CCP Radiography Screening Procedure for Prohibited Items*. This process is used as a preliminary check to screen candidate containers to determine if they qualify for the extensive formal certification process. Videos are not specifically required as part of this screening process but were completed to provide information to assist the host site with their remediation process. This screening



procedure is not used to certify waste and therefore the videos do not need to meet the rigorous requirements that are used in the certification process.

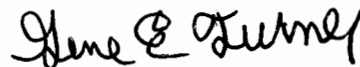
If you have comments or questions regarding this submittal, please contact Mark P. Haagenstad at (505) 665-2014 or Gene E. Turner at (505) 667-5794.

Sincerely,



Alison M. Dorries
Division Leader
Environmental Protection Division
Los Alamos National Security LLC

Sincerely,



Gene E. Turner
Environmental Permitting Manager
Environmental Projects Office
Los Alamos Field Office
U.S. Department of Energy

AMD:GET:MPH:LVH/lm

- Enclosures: (1) Summary Table – On-site Post-1991 Cemented Transuranic Waste Containers Requiring Remediation
(2) LANL Waste Storage Information for Post-1991 Cemented Transuranic Waste Container from TA-55 (LA-CIN-01.001)
(3) High-Energy Real-Time Radiography Prescreen Videos

Cy: Ryan Flynn, NMED, Santa Fe, NM, (E-File)
Tom Blaine, NMED, Santa Fe, NM, (E-File)
Steve Pullen, NMED/HWB, Santa Fe, NM, (E-File)
Timothy Hall, NMED/HWB, Santa Fe, NM, (E-File)
Trais Kliphuis, NMED, Santa Fe, NM, (E-File)
Peter Maggiore, NA-LA, (E-File)
Lisa Cummings, NA-LA, (E-File)
Gene E. Turner, NA-LA, (E-File)
Eric L. Trujillo, NA-LA, (E-File)
Carl A. Beard, PADOPS, (E-File to aosburn@lanl.gov)
Michael T. Brandt, ADESH, (E-File)
Alison M. Dorries, ENV-DO, (E-File)
Jeffery D. Mousseau, ADEP, (E-File)
Daniel R. Cox, ADEP, (E-File)
Victoria A. George, REG-DO, (E-File)
Anthony R. Grieggs, ENV-CP, (E-File)
Deborah K. Woitte, LC-ESH, (E-File)
Bill D. Zwick, MQ, (E-File)
Mark P. Haagenstad, ENV-CP, (E-File)
Luciana Vigil-Holterman, ENV-CP, (E-File)
lasomailbox@nnsa.doe.gov, (E-File)
locatesteam@lanl.gov, (E-File)
env-correspondence@lanl.gov, (E-File)

ENCLOSURE 1

**Summary Table –On-Site Post-1991 Cemented Transuranic Waste
Containers Requiring Remediation**

ENV-DO-14-0146

LAUR-14-24694

Date: **JUL 02 2014**

On-Site Post-1991 Cemented Transuranic Waste Containers Requiring Remediation

Container Identification	Waste Storage Record and WCATS Container Profile	Available RTR	Required Remediation
52118	X	X	Prohibited liquid found at 32 inches. Approximately 6 gallons.
53204	X		Impenetrable object found and 55 gallon container is not vented.
53306	X	X	Sealed container found that is greater than 4 liters, therefore, it is an impenetrable object to be remediated.
53702	X	X	Sealed containers found that are greater than 4 liters, therefore, it is an impenetrable object. Sliptop Cans found.
53703	X		Sealed container found that is greater than 4 liters, therefore, it is an impenetrable object to be remediated.
53712	X	X	Sealed container found that is greater than 4 liters, therefore, it is an impenetrable object to be remediated.
53715	X	X	Sealed container found that is greater than 4 liters, therefore, it is an impenetrable object to be remediated.
53719	X	X	Greater than 1% liquid found inside 55 gallon container and at 32 inches an impenetrable object is found.
53737	X	X	Within the 85 gallon container there is an internal lead lined 55 gallon container with 90 millimeter plastic liner that is not vented. The 55 gallon container is packed in absorbent and contains an S3000 monolith. Sealed container that is greater than 4 liters was also found.
53747	X	X	Sealed container found that is greater than 4 liters, therefore, it is an impenetrable object to be remediated.
53749	X	X	Sealed container found that is greater than 4 liters, therefore, it is an impenetrable object to be remediated.
53761	X	X	Sealed container found that is greater than 4 liters, therefore, it is an impenetrable object to be remediated.
53764	X	X	Within the 85 gallon container with a baked on liner, is a vented lead-lined 55 gallon container, packaged in absorbent. There is greater than 1% liquid within the 85 gallon container- approximately 5 liters at the bottom of 55 gallon container.
53767	X	X	Sealed container found that is greater than 4 liters, therefore, it is an impenetrable object to be remediated.
53772	X		Impenetrable object found.
53841	X		Within the 85 gallon container there is vented lead-lined 55 gallon container. There is greater than 1% liquid- approximately 2.5 liters at bottom of the 55 gallon container. Impenetrable object found.
53848	X	X	Sealed container found that is greater than 4 liters, therefore, it is an impenetrable object to be remediated.
53850	X	X	Within the 85 gallon container there is a lead-lined 55 gallon container with a homogeneous waste. One gallon paint cans are solids found (impenetrable object). NOTE: During 2007 RTR liquids and impenetrable objects were found. 2013 RTR did not find liquids in the container.
57347	X		Greater than 1% liquid found and an impenetrable object found.
61818	X		Greater than 1% liquid found and an impenetrable object found.

ENCLOSURE 2

LANL Waste Storage Information for Post-1991 Cemented
Transuranic Waste Container from TA-55 (LA-CIN-01.001)

ENV-DO-14-0146

LAUR-14-24665

Date: JUL 02 2014

52118

CERTIFIED WASTE STORAGE RECORD

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545



LA00000052118

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	ADDITIONAL INFORMATION
Group <i>MST-12</i>	<i>TIDA A05580005</i>
Pa <i>55</i>	<i>B11098 B11098A</i>
Building <i>PF-4</i>	<i>Fixed Alpha NDA</i>
Program Code <i>K530</i>	<i>Ln 139 3590</i>

CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT			C - Curie M - Gram	
		Type	Thickness (in)	Nuclide	Amount	±	Uncertainty	±
01	<input checked="" type="checkbox"/> Steel Drum (55 gal)							
02	<input type="checkbox"/> Steel Overpack (30 in)							
03	<input type="checkbox"/> Steel Box (26 in x 24 in x 26.5 in)	<input type="checkbox"/> None		<i>Am-241</i>	<i>1.2710</i>	<i>E ± 1</i>	<i>5.9100</i>	<i>E ± 10%</i>
04	<input type="checkbox"/> Steel Overpack (HRP Box)	<input checked="" type="checkbox"/> Lead	<i>6.51E-2</i>	<i>Pu-239</i>	<i>5.7114</i>	<i>E ± 1</i>	<i>7.8110</i>	<i>E ± 10%</i>
05	<input type="checkbox"/> Standard Waste Box	<input type="checkbox"/> Steel	<i>1E1</i>					
	<input type="checkbox"/> Other (Specify)	<input type="checkbox"/> Concrete	<i>1E1</i>					
		<input type="checkbox"/> Other	<i>1E1</i>					

Process Batch Code	<i>4/10</i>	HAZARDOUS MATERIALS	
Gravel Wt. (lb.)	<i>18.41E+0</i>	Name	EPA Code
Organic Mat Wt. (lb.)	<i>1.78E+0</i>	<i>Lead</i>	<i>P0018</i>
Organic Mat Vol. (L)	<i>1.10</i>	Quantity (g)	<i>3.91E+14</i>
Contents Code	<i>606</i>		
Date Closed (MM/DD/YY)	<i>01/19/89</i>		

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name *Chester H Smith Sr* Signature *Chester H Smith Sr* Date *01-26-89*

II. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	<i>4.5E+0</i>	Survey Meter Model	<i>Ro-3c</i>	Property No.	<i>2665</i>
Neutron Dose Rate (mrem/h)	<i>0.2E+0</i>	Survey Meter Model	<i>PNR-4</i>	Property No.	<i>4919</i>
Total Dose Rate (mrem/h)	<i>4.7E+0</i>	The data in this section were collected as prescribed in approved procedures.			
Alpha Contamination (dpm/100cm ²)	<i>1.2E+1</i>	Printed Name	<i>Michael C. Lober</i>	Date	<i>3/8/89</i>
Beta-Gamma Cont. (dpm/100cm ²)	<i>2.1E+1</i>	Signature	<i>Michael C Lober</i>		

III. HSE-7 AUTHORIZATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AIR 10-1.

Printed Name _____ Date _____
Signature _____

IV. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	<i>1E1</i>	Survey Meter Model	Property No.
Neutron Dose Rate (mrem/h)	<i>1E1</i>	Survey Meter Model	Property No.
Total Dose Rate (mrem/h)	<i>1E1</i>	The data in this section were collected as prescribed in approved procedures.	
Alpha Contamination (dpm/100cm ²)	<i>1E1</i>	Printed Name	Date
Beta-Gamma Cont. (dpm/100cm ²)	<i>1E1</i>	Signature	

V. STORAGE SITE INFORMATION

Received by	Date received	Pod No.	Layer	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> W
This package was visually inspected and found to be properly labeled and in good condition. It was accepted according to approved procedures.		Pod No.	Date Shipped	
Printed Name	Date	Printed Name	Date	
Signature		Signature		

VI. HSE-7 REVIEW

The data entered in Sections IV and V have been reviewed according to approved procedures.

Printed Name _____ Date _____
Signature _____

VII. CERTIFICATION STATEMENT

I certify that the above-described waste package has been prepared, packaged, and documented according to an approved TRU Waste Certification Plan and does, to the best of my knowledge, comply with the TRU Waste Acceptance Criteria as defined in the current approved issue of WIPP-QOE-069, "TRU Waste Acceptance Criteria for the Waste Isolation Pilot Plant."

Printed Name _____ Signature _____ Date _____



HEALTH PHYSICS INFORMATION ON
55-GAL. CEMENT DRUMS AT CMR

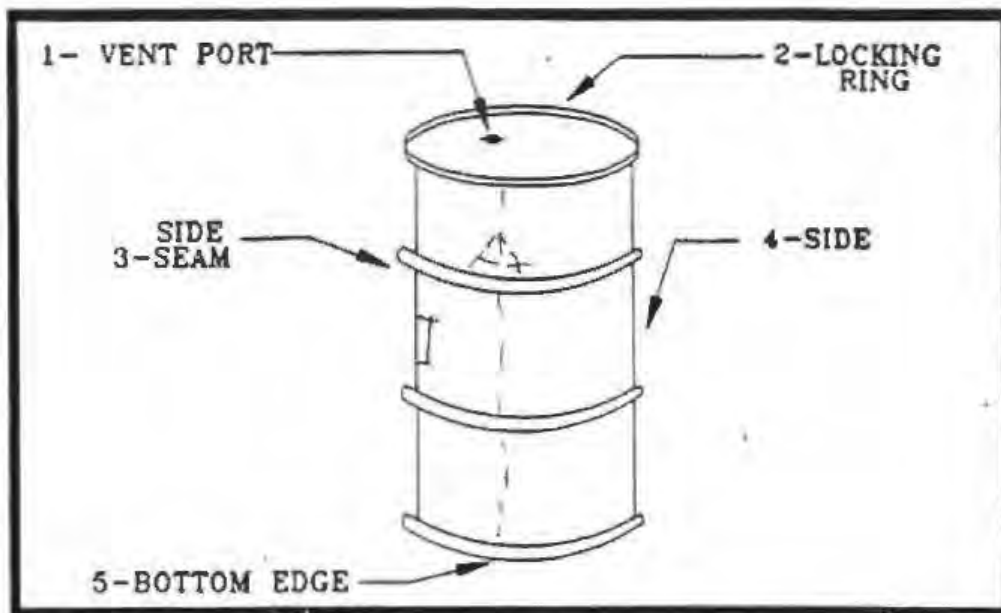
GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	7.0 E + 0	Survey Meter Model	R0-3C	Property Number	2628
Neutron Dose Rate (mrem/h)	1.5 E + 0	Survey Meter Model	PNR-4	Property Number	4904
Total Dose Rate (mrem/h)	8.5 E + 0	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	0.0 E + 0	Printed Name	Gilbert Merriman	Date	5/14/93
Beta-Gamma Cont. (dpm/100cm ²)	0.0 E + 0	Signature	Gilbert C. Merriman		

TRU CONTAINER SMEAR SURVEY DATA SHEET **MAILED**

MAY 05 1993

TA 3 BUILDING 29 SAMPLE DATE 4-29-93
 RPT GIL MERRIMAN CONTAINER NO. LA00000052118



△ Maximum Gamma Dose Rate 7.0 mR/hr.
 □ Maximum Neutron Dose Rate 7.5 mRem/hr.

SMEAR NO.	LOCATION	*ALPHA	*BETA-GAMMA
1	VENT PORT	NDA	NDA
2	LOCKING RING	↓	↓
3	SIDE SEAM	↓	↓
4	SIDE	↓	↓
5	BOTTOM EDGE	↓	↓

GAMMA INSTRUMENT
 Model: RO-3C
 P/N: 2628
 CDD: 5-25-93

NEUTRON INSTRUMENT
 Model: PNR-4
 P/N: 4904
 CDD: 6-26-93

*dpm/100cm. sq.

DISTRIBUTION:

- RPT's TA-54 MS J592
- RCT's TA-3 OUR MS G749
-

ANALYZED BY: D. A. Barnes, M. Jensen
 DATE: 4/30/93

2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

MAM
1-25-83

DISCARDABLE WASTE LOG SHEET

Effective Date 01/09/89

Page 1 of 1 Pages

L A O O O O O O 5 2 1 1 8

WASTE PACKAGE SERIAL NUMBER

Proc. N-Comb Comb Pu-238

Carbon Filter Installed & Tightened

Locknut Tightened

B11098
#05980
B11098

Tamper Indicating Seal # ADDL #05980

Date Sealed 01-19-89

Lead Lined

90 Mil Drum Liner

1/8 Inch Drum Liner

CONTAINER: open In-Line

Waste Code: N/A

ITM NO	ITEM ID	PKG WT/VOL KG or L	MATRIX (MATERIAL)	MEAS. CODE	MT	SNM GRAMS	UNCRT +/- GRAMS	CERTIFIED PERSONNEL	REMARKS (Wt in Kg)			AUTH. PG/LN	DATE mm/dd/yy
									ORGANICS V%	HAZARDOUS MATERIALS	OTHER REMARKS		
0	FT40106B	34.82	EV Batteries	R04	52	42.19	0.34	Smith	4.24	8.07	Edwards Cr Pb 0.115	8/33	01/13/89
1	FT20106A	9.9L	EV Batteries	R04	52	14.95	0.34	Smith	4.24	8.07	Edwards Cr Pb 0.033	8/33	01/13/89
2	FT40106B		EV Batteries	R04	44	10.10	0.55	Smith				2/II	01/13/89
3	FT20106A		EV Batteries	R04	44	0.60	0.04	Smith				2/II	01/13/89
4													
5													
6													
7													
8													
9									4.24	8.07	Packaging		
TOTALS		Pkg WT Kg	MST-12 signatures for Gross Weight		52	57.14	3.95	Smith	4.24	8.07	Haz. Mat. - Kg	8/33	01/13/89
x 2.2046 = Pkg Wt Lbs		678.30	Accountability check		44	10.70	0.59	Smith	organics lbs	17.79	MST-10 Assay Value		
55 gal drum TARE Lbs		162.70	Instrument ID.		52	57.14	3.34		QA Pkg Approval				
Scale GROSS WT Lbs		841.00	MST-10 Signature										

This container's waste was packaged and the MST-12 data on the DMLS and the DWSR were collected according to procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s). MST-12 Signature William Schuler

PACKAGING CONDITION INSPECTION

Los Alamos

Los Alamos National Laboratory

Los Alamos, New Mexico 87545 I. GENERATOR'S PRE-USE VISUAL INSPECTION



Drum Lot Code	Inspection Items	Initials
111	Ring, Bolt, & Nut	DM
Year Of Mfr. 1988	Lid & Gasket	DM
Box Serial No	Chime	DM
Comments:	Dents	DM
	Gouges	DM
	Paint	DM
	Rust	DM

This container has been visually inspected and has been found to be free of damage that would make it unsuitable for TRU waste packaging.

Name: DENNIS MARTINEZ Signature: Dennis Martinez Date: 1/10/89

II. DRIVER'S VISUAL INSPECTION

Inspection Items	Initials	This waste package was visually inspected at time of pickup as required by approved procedures, and was found to be free of obvious damage or defects.	
Filter		Comments	
Labels			
Damage			
Closure Ring			
TID Seal No			
Name		Signature	Date

III. TA-54 INSPECTION

Weight (lbs)		This waste package was visually inspected for handling damage before shipping, and, if the package is a drum, the closure ring bolt was tightened as required by approved procedures.	
TID Seal No			
Comments:			
Name		Signature	Date

Los Alamos

NATIONAL LABORATORY

Environmental Management
Environmental Stewardship Program
EM, JS91
Los Alamos, New Mexico 87545
(505) 867-6630
FAX (505) 685-8118

Date: October 2, 1996

File # EM/ES:96-253

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: a/s

TS.lma



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code <i>NML 0201AAG</i>	Inspected Items		
Year of Manufacture <i>1993</i>	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number <i>N/A</i>	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	Printed Name <i>Steven Griego</i>	Date <i>5/19/93</i>	
	Signature <i>Steven Griego</i>		

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	Group <i>NMT-2</i>	Technical Area <i>TA-55</i>	Building <i>PF4</i>	Program Code <i>K567</i>	
Additional Information <i>55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM</i>					
<i>TID# B19720</i>		<i>Hold Tag# 0678</i>			
CODE	CONTAINER	INTERNAL SHIELDING	RADIONUCLIDE CONTENT		
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None	Nuclide	Amount +/-	Uncertainty +/-
02	<input type="checkbox"/> Standard Waste Box	Type	Thickness (in.)		
03	<input checked="" type="checkbox"/> Other (Call TWCO)	LEAD	<i>6.3E-12</i>		
04	<input type="checkbox"/> RH Canister				
Waste Profile Request Number <i>04636</i>					
Carbon Filter ID <i>01NFT12138</i>					
Process Batch Code <i>N/A</i>					
Gross Weight (lb.) <i>19.51E+12</i>			NONRADIOACTIVE HAZARDOUS MATERIALS		
Organic Material Wt. (lb.) <i>11.71E+11</i>			Name	EPA Code	Quantity (g)
Organic Material Volume (%) <i>110</i>			LEAD SHIELDING	D008	<i>3.9E+4</i>
TRUCON Code <i>111A1A</i>			CADMIUM	D006	<i>6.7E+2</i>
Date Closed (MMDDYY) <i>5/19/93</i>			CHROMIUM	D007	<i>1.43E+2</i>
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. The data are correct and complete to the best of my knowledge.			LEAD	D008	<i>3.8E+1</i>
Printed Name <i>Kathleen M. Gruetzmacher</i>		Signature <i>KM Gruetzmacher</i>		Date <i>5/20/93</i>	

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) <i>1.6E+10</i>	Survey Meter Model <i>RO-3C</i>	Property Number <i>2628</i>
Neutron Dose Rate (mrem/h) <i>1.5E+10</i>	Survey Meter Model <i>PNR-4</i>	Property Number <i>4904</i>
Total Dose Rate (mrem/h) <i>3.1E+10</i>	The data in this section were collected according to approved procedures.	
Alpha Contamination (dpm/100cm ²) <i>0.0E+10</i>	Printed Name <i>Gilbert Merriman</i>	Date <i>5/19/93</i>
Beta-Gamma Cont. (dpm/100cm ²) <i>0.0E+10</i>	Signature <i>Gilbert C. Merriman</i>	

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA-54 by AR 10.5.	Printed Name <i>BRUCE LE BURN</i>	Date <i>5/21/93</i>
	Signature <i>Bruce Le Burn</i>	

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	05 25 93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	05 26 93	Printed Name	KARRI WILBER	Signature	KARRI WILBER

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name: Andrew C. ... Signature: [Signature] Date: 6-1-93

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	12.0 E+10	Survey Meter Model	RO3C	Property Number	2606
Neutron Dose Rate (mrem/h)	1.1 E+10	Survey Meter Model	ESP-2 PAR-4	Property Number	6110
Total Dose Rate (mrem/h)	13.1 E+10	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	1.2 E+10	Printed Name	J. T. MILLER	Date	6-14-93
Beta Gamma Cont. (dpm/100cm ²)	4.8 E+10	Signature	Jane T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Rm	Date Received	6-9-93	ORIGINAL STORAGE DATA					
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Pad Number	3	Layer	1	Row Number	3
				Column Number	1	Date Stacked (MM.DD.YY)	06/15/93		
Printed Name	Rick Martinez	Date	6-9-93	Printed Name	Charlotte Fernandez	Date	7-9-93		
Signature	[Signature]			Signature	Charlotte Fernandez				

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name	BRUCE LE BRUN	Date	7/13/93
		Signature	Bruce Le Brun	

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	07 14 93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	07 15 93	Printed Name	KARRI WILBER	Signature	KARRI WILBER

12. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	07 21 93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
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EM-8 USE ONLY
Reference Number
C4636

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490

Division/Group <u>NMT / NMT-2</u>	Telephone <u>7-1193</u>	Mail Stop <u>E501</u>	Technical Area <u>E5</u>	Building <u>PF-114</u>	Room <u>206</u>
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Method of Characterization Knowledge of Process (KOP) Chemical/Physical Analysis (specify below) MSDS attached (optional) Request for analysis Analysis attached

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Nonrecoverable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgical	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)
TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 139°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

<p>Waste Origination</p> <p>A. Is this waste generated in a radiation controlled area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.</p>	<p>Radioactivity</p> <p><input type="checkbox"/> Nonradioactive <input type="checkbox"/> Suspect <input checked="" type="checkbox"/> Radioactive</p> <table border="0"> <tr> <td>Activity Measure</td> <td>Radiation Type</td> <td>Half-life</td> </tr> <tr> <td><input type="checkbox"/> ≤ 2.0 nCi/g</td> <td><input checked="" type="checkbox"/> alpha</td> <td><input type="checkbox"/> t_{1/2} < 20 yr</td> </tr> <tr> <td><input type="checkbox"/> > 2.0 nCi/g</td> <td><input checked="" type="checkbox"/> beta</td> <td><input checked="" type="checkbox"/> t_{1/2} ≥ 20 yr</td> </tr> <tr> <td><input type="checkbox"/> > 10.0 nCi/g</td> <td><input checked="" type="checkbox"/> gamma</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> > 100 nCi/g</td> <td><input type="checkbox"/> neutron</td> <td></td> </tr> </table>	Activity Measure	Radiation Type	Half-life	<input type="checkbox"/> ≤ 2.0 nCi/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> t _{1/2} < 20 yr	<input type="checkbox"/> > 2.0 nCi/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> t _{1/2} ≥ 20 yr	<input type="checkbox"/> > 10.0 nCi/g	<input checked="" type="checkbox"/> gamma		<input checked="" type="checkbox"/> > 100 nCi/g	<input type="checkbox"/> neutron	
Activity Measure	Radiation Type	Half-life														
<input type="checkbox"/> ≤ 2.0 nCi/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> t _{1/2} < 20 yr														
<input type="checkbox"/> > 2.0 nCi/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> t _{1/2} ≥ 20 yr														
<input type="checkbox"/> > 10.0 nCi/g	<input checked="" type="checkbox"/> gamma															
<input checked="" type="checkbox"/> > 100 nCi/g	<input type="checkbox"/> neutron															

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) <u>Schueler, William T.</u>	Z Number <u>106374</u>	Signature <u>William Schueler</u>	Date <u>10/14/92</u>
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If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). -->	Name (last, first, middle)	Mail Stop
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Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46 - WCLCB
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46 - WCLCB
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46 - WCLCB
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 6.0 ppm	<input type="checkbox"/> ≥ 6.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
creosol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.00 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

Waste Classification

<input type="checkbox"/> Non-RCRA waste	<input type="checkbox"/> RCRA-regulated solid waste	<input checked="" type="checkbox"/> RCRA-regulated hazardous waste	<input type="checkbox"/> Radioactive only
<input type="checkbox"/> PCB	<input type="checkbox"/> municipal refuse	<input type="checkbox"/> hazardous waste	<input type="checkbox"/> low-level waste
<input type="checkbox"/> non-PCB TSCA waste	<input type="checkbox"/> nonhazardous chemical waste	<input type="checkbox"/> mixed low-level waste	<input type="checkbox"/> transuranic waste
<input type="checkbox"/> asbestos	<input type="checkbox"/> administratively controlled waste	<input checked="" type="checkbox"/> mixed transuranic waste	
	<input type="checkbox"/> sanitary/industrial sludges		

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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EM-8 Reviewer's Signature A. Freeman	Date 10/14/92	Cost Center/Program Code for Analysis	Reference Number 04636
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CONTAINER PROFILE

52118

T-MTRU-TEMP

WS ID: 28588
C ID: 768031
ACTIVE

GENERAL INFORMATION

Container ID:	768031	
Labeled ID:	52118	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28588	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 19-May-1993 12:00 am
Quantity (Univ):		Accum Start Date: 19-May-1993
Compactible:		Closed Date: 19-May-1993
Discard Matrix:		
TID(s):		
Gen Contact:		
Insert By:	WCATS APPLICATION (000000)	
Waste Desc:	(LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.	

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	959.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	110.00 lb
		Net Weight:	849.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000232: STAGE: NS: NS



CONTAINER PROFILE

52118

T-MTRU-TEMP

WS ID: 28588
C ID: 768031
ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number:	Year of Manuf: 1993	
Lot No.:	Serial No:	
Solution Package:	36: SP CIN01 Container Issues (Cans)	
TRUCON Code:	LA114A: SOLIDIFIED INORGANIC	
Shipping Category:		
CCP AK Report:	CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste	
WIPP Waste Stream:	TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE	
Matrix Code:	S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED HOMOGENEOUS SOLIDS	
Defense Waste:	Equiv. Comb. Matrix:	Non-combustible/Non-dispersible
Adeq. Ventilation:	YES	Compliant Metal Cont.: YES
Overpack (1 to 1):	YES	Retrievable: BIR WS Code: LA-M4
Content Code:		

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	38		0/0
Not Specified	NA	Carbon Composite	0	4149		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



**CONTAINER PROFILE
52118
T-MTRU-TEMP**

**WS ID: 28588
C ID: 768031
ACTIVE**

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 73719, Status: Active</i>							
B/G Survey			= 2.00	=	=		Not Applicable
Neutron Survey			= 1.10	=	=		Not Applicable
Smear Results				Not Applicable		= 1.20	= 4.80

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 338917, Date: 05/19/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	1.07E+001	g	5.90E-001	N				NONE
52	5.71E+001	g	3.84E+000	N				NONE
Am-241	3.67E+001	Ci	2.03E+000	Y			Y	
Pu-238	9.79E-002	Ci	6.58E-003	Y			Y	
Pu-239	3.33E+000	Ci	2.24E-001	Y			Y	
Pu-240	7.78E-001	Ci	5.23E-002	Y			Y	
Pu-241	1.18E+001	Ci	7.94E-001	Y			Y	
Pu-242	4.50E-005	Ci	3.03E-006	Y			Y	
U-234	7.12E-006	Ci	4.78E-007	Y			Y	
U-235	1.24E-007	Ci	8.30E-009	Y			Y	

53204



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code	NML0155AAG	Inspected Items		
Year of Manufacture	1913	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number	N/A	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.		Printed Name	Steven Griego	Date
		Signature	<i>Steven Griego</i>	7/29/93

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	Group	Technical Area	Building	Program Code
	NMT 2	TASS	PF 4	K567

Additional Information: 55-GAL CEMENT DRUM OVERPACKED IN 55-GAL ENPAC POLY-LINED DRUM
 TID# ~~B20089~~ B20089

CODE	CONTAINER	INTERNAL SHIELDING		RADIOUCLIDE CONTENT					C=Curie M=Gram
		Type	Thickness (in.)	Nuclide	Amount +/-	Uncertainty +/-			
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None							
02	<input type="checkbox"/> Standard Waste Box			PU1524	2.3126 E +11	. E		M	
03	<input checked="" type="checkbox"/> Other (Call TWCO)	LEAD	6.3 E -12	AM1414	3.31710 E +10	. E		M	
04	<input type="checkbox"/> RH Canister								
Waste Profile Request Number		0146316							
Carbon Filter ID		01HA411811	02PF1319616						
Process Batch Code		N/A							

NONRADIOACTIVE HAZARDOUS MATERIALS			
Organic Material Wt. (lb.)	Organic Material Volume (%)	Name	EPA Code
16.49 E -12	1 10	LEAD SHIELDING	D10018
14.69 E -10		CADMIUM	D10016
		CHROMIUM	D10017
Date Closed (MMDDYY)		07/29/93	8/5/93

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. The data are correct and complete to the best of my knowledge.

Printed Name: KATHLEEN M. GRUETZMACHER
 Signature: *KM Gruetzmacher*
 Date: 8/5/93

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	1.2 E +0	Survey Meter Model	RO-3C	Property Number	2646
Neutron Dose Rate (mrem/h)	4.0 E -1	Survey Meter Model	PNR-4	Property Number	4909
Total Dose Rate (mrem/h)	1.6 E +0	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	1.0 E +0	Printed Name	RJ Cox	Date	8/4/93
Beta-Gamma Cont. (dpm/100cm ²)	1.8 E +1	Signature	<i>RJ Cox</i>		

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA 54 by AR 10.5

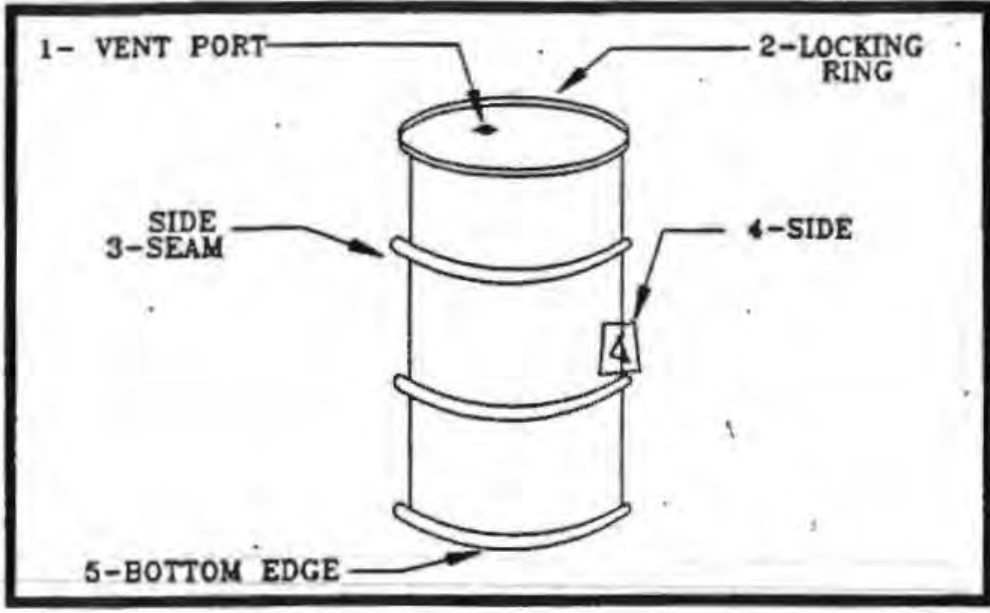
Printed Name	J. Minton-Hughes	Date	8-6-93
Signature	<i>Julia Minton-Hughes</i>		

TRU CONTAINER SMEAR SURVEY DATA SHEET

MAILED

AUG 04 1993

TA 3 BUILDING 29 SAMPLE DATE 7-29-93
 RPT R-COX CONTAINER NO. LA00000053204



△ Maximum Gamma Dose Rate 1.2 mR/hr.
 □ Maximum Neutron Dose Rate 4 mRem/hr.

SMEAR NO.	LOCATION	*ALPHA	*BETA-GAMMA
1	VENT PORT	NDA	NDA
2	LOCKING RING	↓	↓
3	SIDE SEAM	↓	↓
4	SIDE	↓	↓
5	BOTTOM EDGE	↓	18

*dpm/100cm. sq.

GAMMA INSTRUMENT
 Model: RO-3C
 P/N: 2646
 CDD: 9-16-93

NEUTRON INSTRUMENT
 Model: ESP-1 PNR-4
 P/N: 80064909
 CDD: 9-22-93

DISTRIBUTION:

1. RPT's TA-54 MS J592
2. RCT's TA-3 CMR MS G749
3. _____

ANALYZED BY: Ralph Vigil
 DATE: 8-13-93

2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

Los Alamos
 Los Alamos National Laboratory
 Los Alamos, New Mexico 87545



WASTE STORAGE RECORD

WASTE PACKAGE SERIAL NUMBER
 LA 8801 00570582

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	ADDITIONAL INFORMATION
Group: <u>115T-12</u>	<u>TED # H04976</u>
TA: <u>53</u>	
Building: <u>PP4</u>	
Program Code:	

CODE	CONTAINER	INTERNAL SHIELDING	RADIONUCLIDE CONTENT		C = Curie m = mCi	
			Nuclide	Amount		
01	<input checked="" type="checkbox"/> Steel Drum (55 gal.)	Type: <input checked="" type="checkbox"/> Lead Thickness (in.): <u>6.3</u>	<u>Pu-239</u>	<u>2.326</u>	<u>7.1</u>	
02	<input type="checkbox"/> Steel Overpack (Drums)		<u>Am-241</u>	<u>3.370</u>	<u>1.0</u>	
03	<input type="checkbox"/> Steel Box (68 in. X 54 in. X 39.5 in.)		<input type="checkbox"/> None			
04	<input type="checkbox"/> Steel Overpack (FRP Box)		<input type="checkbox"/> Steel			
Drum Lot Code: <u>1A</u> Year of Mfr: <u>81</u>		<input type="checkbox"/> Concrete				
Manufacturer's Box Serial Number: <u>1411</u>		<input type="checkbox"/> Other				

HAZARDOUS MATERIALS			
Gross Wt. (lb.)	Organic Mat'l Wt. (lb.)	Organic Mat'l Vol (%)	Content Code
<u>5.31</u>	<u>4.69</u>	<u>0.06</u>	<u>10.2</u>
Date Closed (MMDDYY): <u>10/2/04</u>		Name: <u>Lead</u>	
EPA Code: <u>PC08</u>		Quantity (g): <u>3.8</u>	

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name: Chester H Smith Sr Signature: Chester H Smith Sr Date: 02-08-88

II. GENERATOR—SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h): <u>10.5</u>	Survey Meter Model: <u>RO3C</u>	Property No: <u>202614</u>
Neutron Dose Rate (mrem/h): <u>10.5</u>	Survey Meter Model: <u>PNR-4</u>	Property No: <u>004913</u>
Total Dose Rate (mrem/h): <u>10.7</u>	Alpha Contamination (dpm/100cm ²): <u>10.0</u>	
Beta-Gamma Cont. (dpm/100cm ²): <u>3.0</u>		The data in this section were collected as prescribed in approved procedures. The package is safe to handle and transport.
Printed Name: <u>James B. Sanchez</u>		Date: <u>2-16-88</u>

III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-5.

Printed Name: BRUCE T. REICH Date: 02/22/88

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h): <u>17.0</u>	Survey Meter Model: <u>103C</u>	Property No: <u>2610</u>
Neutron Dose Rate (mrem/h): <u>13.0</u>	Survey Meter Model: <u>1NR4</u>	Property No: <u>4905</u>
Total Dose Rate (mrem/h): <u>10.0</u>	Alpha Contamination (dpm/100cm ²): <u>16.5</u>	
Beta-Gamma Cont. (dpm/100cm ²): <u>13.0</u>		The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.
Printed Name: <u>Glen Karbin</u>		Date: <u>3/15/88</u>

V. STORAGE SITE INFORMATION

Received by: <u>KDC</u>	Date received: <u>3-1-88</u>	Pad No: <u>2</u>	Layer: <u>4</u>
This package was visually inspected and found to be properly labeled and in good condition. It was accepted according to approved procedures.		Post No: <u>1215</u>	Date Stacked: <u>3-15-88</u>
Printed Name: <u>Rosila F. Garcia</u>		This waste package was stored at this location according to approved procedures.	
Signature: <u>Rosila F. Garcia</u>		Printed Name: <u>ROSILA F. GARCIA</u>	Date: <u>3-14-88</u>
Signature: <u>Rosila F. Garcia</u>		Signature: <u>Rosila F. Garcia</u>	

DISCARDABLE WASTE LOG SHEET

Effective Date 10/19/87

Page 1 of 1 Pages

LA 88010050582

WASTE PACKAGE SERIAL NUMBER

Proc.
 N-Comb
 Comb
 Pu-238

Vent Clip or Carbon Filter installed
 installer's INITIALS CD

Lead Lined Y

90 Mil Drum Liner N

CONTAINER: open In-Line

Tamper Indicating Seal # A04876

1/8 Inch Drum Liner N

Waste Code: N/A

Date Sealed 02-04-88

ITM NO	ITEM ID	FROM RM/BOX	PKG WT Kg	MATRIX (MATERIAL)	MEAS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONNEL	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy
										ORGANICS V%	HAZARDOUS MATERIALS	OTHER REMARKS		
0	10X18WF1B	434 6467	26.25	Filtrate	R00	6.73	52	6.0	Smith				1/2	02/02/88
1	CANASH13	434 TA-50	3.57	High Fined	603	0.40	52	6.0	Smith				1/2	02/02/88
2	1D521WF1	434 6467	15.96	Filtrate	R00	15.96	52	6.0	Smith				1/2	02/04/88
3	10X20WF1A	434 6468	0.17	Filtrate	R00	0.17	52	6.0	Smith				1/2	02/04/88
4	10X18WF1B	434 6467	0.67	Filtrate	R00	0.67	44	99.9	Smith				3/II	02/02/88
5	1D521WF1	434 6467	2.68	Filtrate	R00	2.68	44	99.9	Smith				3/II	02/04/88
6	10X20WF1A	434 6468	0.02	Filtrate	R00	0.02	44	99.9	Smith				3/II	02/04/88
7													1	1 1
8													1	1 1
9										2.2	2.15	Packaging	1	1 1
TOTALS Pkg Wt. Kg			172.78	MST-12 signatures for Gross Weight		23.26	52	TOTALS		2.2	2.15	Haz. Mat. - Kg		
x 2.2046 = Pkg Wt Lbs			380.91	for Accountability		3.37	44	organics pounds		4.69	MST-10 Assay Value			
Scale GROSS WT. Pounds			531.52					QA Data Pkg. Approval		Instrument <u>10/A</u>				
55 gal. drum THREE Pounds			150.42					<u>B. D. DeRosa 11/88</u>		MST-10 Signature				

This container's waste was packaged and the MST-12 data on the DWSL and the CWSR were collected according to procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s). MST-12 Signature Charles L. Fox

5 A05-2-231/0239A



EM-8 USE ONLY
Reference Number <i>04636</i>

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490

Division/Group <i>NMT / NMT-2</i>	Telephone <i>7-1193</i>	Mail Stop <i>E501</i>	Technical Area <i>SS</i>	Building <i>PF-114</i>	Room <i>206</i>
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Method of Characterization Knowledge of Process (KOP) Chemical/Physical Analysis (specify below) Request for analysis Analysis attached
 MSDS attached (optional) - OR -

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Non-salvageable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgic	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)

TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

<input checked="" type="checkbox"/> Solid	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 100° to 139°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Gas cylinder or vessel	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Multilayered	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Suspended solids			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Powder or ash			<input checked="" type="checkbox"/> Nonreactive	

Waste Origination

A. Is this waste generated in a radiation controlled area? Yes No

B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) Yes No

C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity

<input type="checkbox"/> Nonradioactive	<input type="checkbox"/> Suspect	<input checked="" type="checkbox"/> Radioactive
Activity Measure	Radiation Type	Half-life
<input type="checkbox"/> ≤ 2.0 nC/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> 1 ^{hr} < 20 yr
<input type="checkbox"/> > 2.0 nC/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> 1 ^{hr} ≥ 20 yr
<input type="checkbox"/> > 10.0 nC/g	<input checked="" type="checkbox"/> gamma	
<input checked="" type="checkbox"/> > 100 nC/g	<input type="checkbox"/> tritium	

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) <i>Schueler, William T.</i>	Z Number <i>106374</i>	Signature <i>William Schueler</i>	Date <i>10/14/92</i>
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If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). →	Name (last, first, middle)	Mail Stop
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Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-6010A
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-6020(m)
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-6010A
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 6.0 ppm	<input type="checkbox"/> ≥ 6.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
creosol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.00 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

_____	_____	_____
_____	_____	_____
_____	_____	_____

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹ Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

Waste Classification

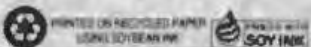
<input type="checkbox"/> Non-RCRA waste	<input type="checkbox"/> RCRA-regulated solid waste	<input checked="" type="checkbox"/> RCRA-regulated hazardous waste	<input type="checkbox"/> Radioactive only
<input type="checkbox"/> PCB	<input type="checkbox"/> municipal refuse	<input type="checkbox"/> hazardous waste	<input type="checkbox"/> low-level waste
<input type="checkbox"/> non-PCB TSCA waste	<input type="checkbox"/> nonhazardous chemical waste	<input type="checkbox"/> mixed low-level waste	<input type="checkbox"/> transuranic waste
<input type="checkbox"/> asbestos	<input type="checkbox"/> administratively controlled waste	<input checked="" type="checkbox"/> mixed transuranic waste	
	<input type="checkbox"/> sanitary/industrial sludges		

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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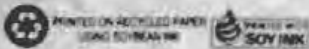
EM-8 Reviewer's Signature [Signature]	Date 10/14/92	Cost Center/Program Code for Analysis	Reference Number 04636
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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NM0890010515		Manifest Document No. 53204		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
		3. Generator's Name and Mailing Address DAVIS V CHRISTENSEN Los Alamos National Laboratory TA54 AREA G MS Los Alamos NM 87545				A. State Manifest Document Number		B. State Generator's ID					
4. Generator's Phone (505) 66				6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone					
5. Transporter 1 Company Name LANT				8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone					
7. Transporter 2 Company Name				10. US EPA ID Number		G. State Facility's ID		H. Facility's Phone 505 66-					
9. Designated Facility Name and Site Address Los Alamos National Laboratory RONALD G SALAZAR TA50 BLDG. 69 Los Alamos, NM 87545													
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
						No.		Type					
a. <input checked="" type="checkbox"/> RQ, RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918 Solid, Elemental, AM44, PU52, 1 807e+01C1, T I = 0.2 RADIOACTIVE						1		649		P			
b. YELLOW II, Am241, Pu238, Pu239, Pu240, Pu241, Pu242													
c.													
d.													
J. Additional Descriptions for Materials Listed Above 11a. D008, D007, D006						K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information *EMERGENCY PHONE NO: (505) 667-6211* 11a. ERGNO: /65						<div style="border: 2px solid red; padding: 5px; display: inline-block;">HMTF REVIEW APPROVED <input checked="" type="checkbox"/> DISCREPANCY <input type="checkbox"/> <i>7/11/96 7:30</i> GM</div>							
												<i>Road Closure Required</i> TWSR#: 53204 HMTF#: 15455	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this shipment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, after care in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name DAVIS Christensen				Signature <i>Davis Christensen</i>				Month Day Year 07 11 1996					
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name VALDOE AIVIN				Signature <i>Valdore Aivin</i>				Month Day Year 07 23 1996					
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name				Signature				Month Day Year					
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name Ron Salazar				Signature <i>Ron Salazar</i>				Month Day Year 07 23 1996					

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NM0890010515	Manifest Document No. 53304	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Los Alamos National Laboratory				A. State Manifest Document Number		
4. Generator's Phone ()				B. State Generator's ID		
5. Transporter 1 Company Name LANL		6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address Los Alamos National Laboratory Mesa Del Buey Rd. TA-54 Los Alamos, NM 87545		10. US EPA ID Number		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone 505 687 6095		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol
				No.	Type	Waste No
a.	K RO, RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918 Solid, Elemental, AM241, PU238, PU239, PU240, PU241, PU242,			1	DR	529 P
b.	I.8066+01CL, P.E.#0.1 RADIOACTIVE YELLOW II,					
c.						
d.						
J. Additional Descriptions for Materials Listed Above 114. D000				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information *EMERGENCY PHONE NO: (505) 687-6211 114; ERDMO: 165 TWRB: 53304 HWTF:						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name RONALD G. SALAZAR		Signature <i>Ronald Salazar</i>		Month Day Year 09/11/11		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name GIVEN JAVIER		Signature <i>Given Javier</i>		Month Day Year 09/11/11		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name RICK MARTINEZ		Signature <i>Rick Martinez</i>		Month Day Year 09/11/11		



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. HM0190010515	Manifest Document No. 53204	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address Los Alamos National Laboratory				A. State Manifest Document Number				
4. Generator's Phone ()				B. State Generator's ID				
5. Transporter 1 Company Name LANL		6. US EPA ID Number		C. State Transporter's ID				
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone				
9. Designated Facility Name and Site Address Los Alamos National Laboratory P.O. Box 166100, TA-54 Los Alamos, NM 87545		10. US EPA ID Number		E. State Transporter's ID				
				F. Transporter's Phone				
				G. State Facility's ID				
				H. Facility's Phone				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
				No.	Type			
a. ^{HM} PLU RADIOACTIVE MATERIAL, FISSILE, U.S., U, UN291850-11d, Elemental, AM241, PU238, PU239, PU240, PU241, PU242, T-50660101, T-1-90.1 RADIOACTIVE YELLOW II.				1	DR	529	P	
b.								
c.								
d.								
J. Additional Descriptions for Materials Listed Above 114 COUM				K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information *EMERGENCY PHONE NO: (505) 867-6211 TIN. ERGONO: 165 THERE 53204 UNITE								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
Printed/Typed Name Ronald G. Salazar				Signature Ronald G. Salazar		Month Day Year 10/1/96		
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name GILBERT JAVIERE		Signature Gilbert Javier		
						Month Day Year 10/1/96		
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature		
						Month Day Year		
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.								
Printed/Typed Name Rick Martinez				Signature Rick Martinez		Month Day Year 10/1/96		



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MN0820010R15	Manifest Document No. 53204	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Los Alamos National Laboratory				A. State Manifest Document Number		
4. Generator's Phone ()				B. State Generator's ID		
5. Transporter 1 Company Name LANL		6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address Los Alamos National Laboratory Mesa Del Norte Bldg TA-54 Los Alamos, NM 87545		10. US EPA ID Number		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No
		No.	Type			
a. UG, RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918 Solid, Elemental, AN241, PU238, PU239, PU240, PU241, PU242,		1	DR	525	Y	
b. 1 BOX+11G1, T.L.+O.L RADIOACTIVE YELLOW ILY						
c.						
d.						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information - EMERGENCY PHONE NO: (505) 667-6211 11a. EBGNO: 165 TWBRS: 53204 HMTF:						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name Ronald G. Salazar		Signature <i>Ronald G. Salazar</i>		Month Day Year 		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Gloria Chavez		Signature <i>Gloria Chavez</i>		Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name Rick Martinez		Signature <i>Rick Martinez</i>		Month Day Year 		

DRUM SURVEY SHEET

TA - 50-69, WCRRF

LOCATION

ROOM: 102

 103

 104

 50-193

BUILDING _____

OTHER _____

CONTAINER NUMBER: 53204

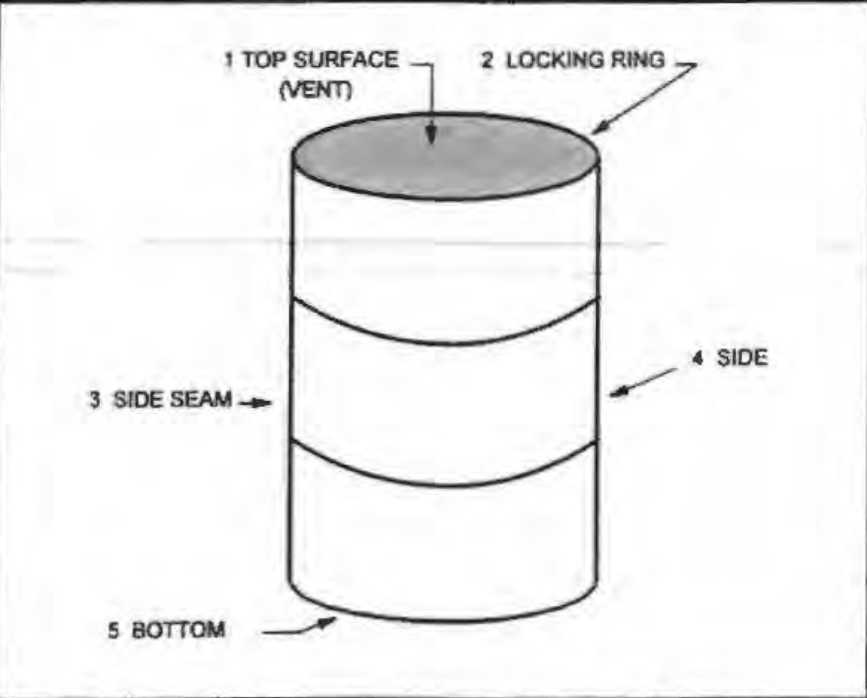
DRUM SURVEY DATE: 1/1

SURVEYED BY: K. Cudg
(Signature)

RCT: Salazar

 Ault

Other: _____



GAMMA INSTRUMENT

MODEL: RO-2

 RO-3C

(OTHER) _____

P/N: 2645

CAL DUE DATE: 2/17/97

MAXIMUM GAMMA DOSE RATE

△ contact 0.6 mR/hr
1 meter 0.1 mR/hr

NEUTRON INSTRUMENT

MODEL: ESP-2/NRD

 PNR-4

(OTHER) ESP-1

P/N: 8037

CAL DUE DATE: 1/29/97

MAXIMUM NEUTRON DOSE RATE

□ contact 0.2 mRem/hr
1 meter 0.1 mR/hr

SMEAR	LOCATION	ALPHA*	BETA*
1	TOP SURFACE		
2	LOCKING RING	<u>2.2</u>	<u>0.7</u>
3	SIDE SEAM		
4	SIDE	<u>dpm</u>	<u>dpm</u>
5	BOTTOM		

ALPHA / BETA INSTRUMENT
BERTHOLD LB770, P/N 844236

DISTRIBUTION:

1. RCT's TA-50 MS E516

2. _____

3. _____

APPROVED

Bobby Gonzales

DATE: 1/1

Stan Bodenstein, CS, 02:15 PM 9/9/96 -, Dewatered Drum Shipment to TA-

Return-Path: <bodenstein@lanl.gov>
X-Sender: sab@wm0.lanl.gov
Date: Mon, 09 Sep 1996 14:15:16 -0600
To: aic@lanl.gov
From: bodenstein@lanl.gov (Stan Bodenstein, CST-7, 5-8462)
Subject: Dewatered Drum Shipment to TA-54
Cc: Triay@lanl.gov, jrj@lanl.gov, shelmick@lanl.gov, grand@lanl.gov,
dvc@lanl.gov, aic@lanl.gov, rickmar@lanl.gov, jbalkey@lanl.gov,
ronwieneke@lanl.gov, kgruetzmacher@lanl.gov, andym@lanl.gov,
gveazey@lanl.gov, dpt@lanl.gov

I-Li,

We received the following drums from you as OVERPACKED 55 gallon drums. We dewatered each of the drums at the WCRRF.

Since each of the drums was in very good condition, we will be shipping the following list of drums back to you as 55 gallon drums, WITHOUT the overpacks. Also indicated is the change in weight due to the removal of water.

Please update the database as necessary.

Drum Number	Pounds	
	Initial Weight	Final Weight

53836	532.0	523.8
53746	534.8	528.0
53783	556.0	548.4
53789	538.6	532.2
53204	531.8	529.4
53174	537.6	534.9
53851	554.8	552.1
53771	560.4	556.3
53715	547.2	543.1
54893	539.2	536.5
52054	833.6	813.2
52484	855.2	833.8
53847	527.0	519.4
53790	557.2	548.2
53734	821.0	815.6
53848	534.8	530.2
54002	804.8	798.6
53712	529.8	523.0
52187	862.6	844.2
53824	536.6	530.8
53772	561.6	545.8
53796	554.2	549.6
53722	554.0	545.8
53703	527.2	517.8
53714	531.8	529.4
53814	533.0	519.2
54894	537.4	535.6
53306	539.4	529.8
53842	540.4	528.0
53802	530.6	520.4

Printed for "I-Li Chen ,CST-14 , 5-6422" <aic@lanl.gov>

Los Alamos

NATIONAL LABORATORY

53204

Environmental Management
Environmental Stewardship Program
EM, JSR1
Los Alamos, New Mexico 87545
(505) 667-6639
FAX (505) 666-8118

Date: October 2, 1996
Refer to: EM/ES:96-253

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: a/s

TS:lma

**LAND DISPOSAL RESTRICTIONS
NOTIFICATION FORM**

A copy of this form must be attached to each Waste Profile Form and to each Uniform Hazardous Waste Manifest required to transport waste within LANL pursuant to 40 CFR 268.7(a)(1).

Waste Profile Form No. 4636	Chemical Waste/ Waste Disposal Record No. LA00000053204	Uniform Hazardous Waste Manifest No. 53204	Date of Waste Pickup 08/25/93
---------------------------------------	--	---	---

Check only one.

- Non-wastewater
 Wastewater (as defined in 40 CFR 268.2(f))

NOTIFICATION OF CALIFORNIA LIST APPLICABILITY

Check all that apply.

- Liquid hazardous waste containing PCBs at a concentration of 250 ppm.
 A D001 - D017 liquid waste containing 2134 mg/l. of nickel and/or 2130 mg/L. of thallium.
 A D001 - D011 waste containing Halogenated Organic Compounds (HOCs) listed in 40 CFR 268, Appendix III, at 21000 ppm.

NOTIFICATION OF "D" CHARACTERISTIC EPA WASTE CODES

Check all that apply.

EPA Waste Code Waste Description and/or Subcategory (as needed)

- D001 Ignitable characteristic wastes (except for the Section 261.21(a)(1) High TOC Subcategory) that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
- D001 High TOC Ignitable Characteristic Liquids Subcategory based on 40 CFR 261.21(a)(1) - Greater than 10% total organic carbon.
- D002 Corrosive Characteristic Wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
- D003 Reactive Sulfides Subcategory
- D003 Reactive Cyanides Subcategory
- D003 Water Reactive Subcategory
- D003 Other Reactives Subcategory (based on 261.23(a)(1))
- D004
- D005
- D006 Wastes that exhibit the TC for cadmium
- D006 Cadmium Containing Batteries Subcategory
- D007 Wastes that exhibit TC for lead
- D008 Lead Acid Batteries Subcategory
- D009 ^{D65} Radioactive Lead Solids Subcategory
- D009 ^{5/24/93} High Mercury-Organic Subcategory (≥250 mg/kg Hg with organics and not incinerator residues)
- D009 High Mercury-Inorganic Subcategory (≥250 mg/kg Hg (with inorganics))
- D009 Low Mercury Subcategory (<250 mg/kg Hg)
- D009 All D009 wastewaters
- D009 Elemental mercury contaminated with radioactive materials.
- D009 Hydraulic oil contaminated with Mercury Radioactive Materials Subcategory
- D010
- D011

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> D012 | <input type="checkbox"/> D020 | <input type="checkbox"/> D028 | <input type="checkbox"/> D036 |
| <input type="checkbox"/> D013 | <input type="checkbox"/> D021 | <input type="checkbox"/> D029 | <input type="checkbox"/> D037 |
| <input type="checkbox"/> D014 | <input type="checkbox"/> D022 | <input type="checkbox"/> D030 | <input type="checkbox"/> D038 |
| <input type="checkbox"/> D015 | <input type="checkbox"/> D023 | <input type="checkbox"/> D031 | <input type="checkbox"/> D039 |
| <input type="checkbox"/> D016 | <input type="checkbox"/> D024 | <input type="checkbox"/> D032 | <input type="checkbox"/> D040 |
| <input type="checkbox"/> D017 | <input type="checkbox"/> D025 | <input type="checkbox"/> D033 | <input type="checkbox"/> D041 |
| <input type="checkbox"/> D018 | <input type="checkbox"/> D026 | <input type="checkbox"/> D034 | <input type="checkbox"/> D042 |
| <input type="checkbox"/> D019 | <input type="checkbox"/> D027 | <input type="checkbox"/> D035 | <input type="checkbox"/> D043 |

All applicable Underlying Hazardous Constituents in these characteristic wastes must be checked in Table UTS.

LAND DISPOSAL RESTRICTIONS
NOTIFICATION FORM

NOTIFICATION FOR F001 - F005 SPENT SOLVENT WASTES

Check all that apply.

Spent solvent wastes with the following constituents only.

<u>EPA Waste Code</u>	<u>Constituents in the waste</u>	
<input type="checkbox"/> F001	<input type="checkbox"/> Acetone	<input type="checkbox"/> Isobutyl alcohol
<input type="checkbox"/> F002	<input type="checkbox"/> Benzene	<input type="checkbox"/> Methanol
<input type="checkbox"/> F003	<input type="checkbox"/> n-Butyl alcohol	<input type="checkbox"/> Methylene chloride
<input type="checkbox"/> F004	<input type="checkbox"/> Carbon disulfide (wastewater only)	<input type="checkbox"/> Methyl ethyl ketone
<input type="checkbox"/> F005	<input type="checkbox"/> Carbon tetrachloride	<input type="checkbox"/> Methyl isobutyl ketone
	<input type="checkbox"/> Chlorobenzene	<input type="checkbox"/> Nitrobenzene
	<input type="checkbox"/> o-cresol	<input type="checkbox"/> Pyridine
	<input type="checkbox"/> m-cresol	<input type="checkbox"/> Tetrachloroethylene
	<input type="checkbox"/> p-cresol	<input type="checkbox"/> Toluene
	<input type="checkbox"/> Cresol-mixed isomers (Cresylic acid)	<input type="checkbox"/> 1,1,1-Trichloroethane
	<input type="checkbox"/> Cyclohexanone (wastewater only)	<input type="checkbox"/> 1,1,2-Trichloroethane
	<input type="checkbox"/> o-Dichlorobenzene	<input type="checkbox"/> 1,1,2-Trichloro - 1,2,2-trifluoroethane
	<input type="checkbox"/> Ethyl acetate	<input type="checkbox"/> Trichloroethylene
	<input type="checkbox"/> Ethyl benzene	<input type="checkbox"/> Trichloromonofluoromethane
	<input type="checkbox"/> Ethyl ether	<input type="checkbox"/> Xylenes - mixed isomers (o-, m-, p-xylene)

Check all that apply.

EPA Waste Codes Constituents in the waste

- | | |
|-------------------------------|---|
| <input type="checkbox"/> F003 | <input type="checkbox"/> Carbon disulfide |
| <input type="checkbox"/> F005 | <input type="checkbox"/> Cyclohexanone |
| | <input type="checkbox"/> Methanol |

Note: Treatment standards for these constituents apply to F001 - F005 wastes contain only one, two, or all three of these constituents.

Check only one, if applicable.

EPA Waste Code Constituents in the waste

- | | |
|-------------------------------|--|
| <input type="checkbox"/> F005 | <input type="checkbox"/> Containing 2-nitropropane as the only listed F001 - F005 solvent. |
| | <input type="checkbox"/> Containing 2-ethoxyethane as the only listed F001 - F005 solvent. |

NOTIFICATION FOR OTHER "F" WASTES

Check only one, if applicable.

- F006
- F007
- F008
- F009
- F027



CONTAINER PROFILE
53204
T-MTRU-TEMP

WS ID: 28588
C ID: 761864
ACTIVE

GENERAL INFORMATION

Container ID:	761864	
Labeled ID:	53204	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28588	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 29-Jul-1993 12:00 am
Quantity (Univ):		Accum Start Date: 29-Jul-1993
Compactible:		Closed Date: 29-Jul-1993
Discard Matrix:		
TID(s):		
Gen Contact:		
Insert By:	WCATS APPLICATION (000000)	
Waste Desc:	(LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.	

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	611.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	82.00 lb
		Net Weight:	469.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000153: C047: L01: R07



CONTAINER PROFILE
53204
T-MTRU-TEMP

WS ID: 28588
 C ID: 761864
 ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____
Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED
 HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	NOT AVAILABLE		0/0
Not Specified	NA	Carbon Composite	0	CK-120		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53204
T-MTRU-TEMP

WS ID: 28588
 C ID: 761864
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 72343, Status: Active</i>							
B/G Survey			= 0.80	=	=		Not Applicable
Neutron Survey			= 0.00	=	=		Not Applicable
Smear Results				Not Applicable		= 2.40	= 7.80

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 336222, Date: 07/29/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	3.37E+000	g	0.00E+000	N				NONE
52	2.33E+001	g	0.00E+000	N				NONE
Am-241	1.16E+001	Ci	0.00E+000	Y			Y	
Pu-238	3.99E-002	Ci	0.00E+000	Y			Y	
Pu-239	1.35E+000	Ci	0.00E+000	Y			Y	
Pu-240	3.17E-001	Ci	0.00E+000	Y			Y	
Pu-241	4.81E+000	Ci	0.00E+000	Y			Y	
Pu-242	1.83E-005	Ci	0.00E+000	Y			Y	
U-234	2.90E-006	Ci	0.00E+000	Y			Y	
U-235	5.03E-008	Ci	0.00E+000	Y			Y	

53306



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code	NML 0169446	Inspected Items		
Year of Manufacture	1913	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number	N/A	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging		Printed Name	Steven Garcia	Date
		Signature	Steven Garcia	

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	Group	NMT-2	Technical Area	TA-55	Building	PF4	Program Code	K567
Additional Information: 55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM								
TID# B20150								
CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT				
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None		Nuclide	Amount +/-		Uncertainty +/-	
02	<input type="checkbox"/> Standard Waste Box	Type	Thickness (in.)					
03	<input checked="" type="checkbox"/> Other (Call TWCD)	LEAD	6.3E-12	PU 152	3.19E+11	E	+11	M
04	<input type="checkbox"/> RH Canister			AM 144	3.73E+10	E	+10	M
Waste Profile Request Number		04636						
Carbon Filter ID		01 LA 3141917 02 LF 11871						
Process Batch Code		N/A						
Gross Weight (lb.)		16.518E+12		NONRADIOACTIVE HAZARDOUS MATERIALS				
Organic Material Wt (lb.)		14.619E+10		Name	EPA Code	Quantity (g)		
Organic Material Volume (%)		110		LEAD SHIELDING	D008	3.8E+14		
TRUCON Code		11141A		CADMIUM	D006	2.6E+02		
Date Closed (MMDDYY)		08/05/93 022588		CHROMIUM	D007	1.0E+2		
The data in this section were collected, and the waste description herein was packaged and labeled according to approved procedures. The correct and complete to the best of my knowledge				LEAD	D008	2.6E+1		
Printed Name		Kathleen M. Gruetzmacher		Signature	KM Gruetzmacher		Date	
							8/11/93	

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	4.0E-1	Survey Meter Model	RO-3C	Property Number	2646
Neutron Dose Rate (mrem/h)	1.0E+10	Survey Meter Model	PNR-4	Property Number	4905
Total Dose Rate (mrem/h)	4.0E-1	The data in this section were collected according to approved procedures			
Alpha Contamination (dpm/100cm ²)	1.0E+10	Printed Name	RJCOX	Date	8/9/93
Beta Gamma Cont (dpm/100cm ²)	1.0E+10	Signature	RJG		

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM 7. The generator is authorized to arrange transportation to TA-54 by AR 10.5	Printed Name	BRUCE LE BRUN	Date	8/13/93
	Signature	Bruce Le Brun		

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	018	116	913	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	09	01	93	Printed Name	HARRI WILDER	Signature	HARRI WILDER

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name	Steve E. Lopez	Signature	Steve E. Lopez	Date	8-30-93
--------------	----------------	-----------	----------------	------	---------

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

2493
10/23

Gamma Dose Rate (mrem/h)	1.0	E-11	Survey Meter Model	R03C	Property Number	2620
Neutron Dose Rate (mrem/h)	2.0	E-11	Survey Meter Model	PNR4	Property Number	5229
Total Dose Rate (mrem/h)	13.0	E-11	The data in this section were collected according to approved procedures.			
Alpha Contamination (cpm/100cm ²)	12.3	E-10	Printed Name	J.T. Miller	Date	9-13-93
Beta Gamma Cont. (cpm/100cm ²)	15.0	E-10	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Rm	Date Received	9-9-93	ORIGINAL STORAGE DATA					
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Pack Number	153	Layer	1	Row Number	3
				Column Number	23	Date Stacked (MM,DD,YY)	09/14/93		
Printed Name	Rick Martinec	Date	9-9-93	Printed Name	Charlotte Fernandez	Date	9/15/93		
Signature	Rick Martinec			Signature	Charlotte Fernandez				

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.			Printed Name	BRUCE LE BRUN	Date	11/19/93
			Signature	Bruce Le Brun		

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	110	27	93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	11	01	93	Printed Name	HARRI WILDER	Signature	HARRI WILDER

12. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	12	01	93	Printed Name	Renee Sandoval	Signature	Renee Sandoval
----------------------	----	----	----	--------------	----------------	-----------	----------------

Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545



ASTE STORAGE RECORD

WASTE PACKAGE SERIAL NUMBER
 LA 8 8 0 1 0 0 5 0 5 9 5

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	ADDITIONAL INFORMATION
Group <i>MST-12</i>	<i>TID# H05068</i>
TA <i>TA-25</i>	
Building <i>PF-4</i>	<i>LUD-139 PN#3650</i>
Program Code <i>K530</i>	<i>FIXED ALPHA-NDK</i>

CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT			C - Curie M - Mrem	
				Nuclide	Amount			
01	<input checked="" type="checkbox"/> Steel Drum (55 gal.)	Type	Thickness (in.)	<i>Pu-239</i>	<i>3.190</i>	<i>E+11</i>	<i>M</i>	
02	<input type="checkbox"/> Steel Overpack (Drums)			<i>Am-241</i>	<i>3.730</i>	<i>E+10</i>	<i>M</i>	
03	<input type="checkbox"/> Steel Box (68 in. X 54 in. X 38.5 in.)			<input checked="" type="checkbox"/> Lead	<i>0.51E-12</i>			
04	<input type="checkbox"/> Steel Overpack (FRP Box)			<input type="checkbox"/> None				
	<input type="checkbox"/> Other (Describe)	<input type="checkbox"/> Steel						
	Drum Lot Code <i>H1</i>	<input type="checkbox"/> Concrete						
	Year of Mfr. <i>87</i>	<input type="checkbox"/> Other						
	Manufacturer's Box Serial Number							

HAZARDOUS MATERIALS			
Name	EPA Code	Quantity (g)	
<i>Lead</i>	<i>D008</i>	<i>3.8</i>	<i>E+4</i>

Gross Wt. (lb) *5.40*
 Organic Mat'l Wt. (lb) *9.69*
 Organic Mat'l vol (ml) *0*
 Content Code *D008*
 Date Closed (MMDDYY) *10/22/88*

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name *Chester A Smith Sr* Signature *Chester A Smith Sr* Date *02-29-88*

II. GENERATOR—SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	<i>10.5</i>	Survey Meter Model	<i>RO-3C</i>	Property No.	<i>2614</i>
Neutron Dose Rate (mrem/h)	<i>10.5</i>	Survey Meter Model	<i>PNR-4</i>	Property No.	<i>5238</i>
Total Dose Rate (mrem/h)	<i>11.0</i>				

Alpha Contamination (dpm/100cm ²)	<i>10.0</i>	The data in this section were collected as prescribed in approved procedures. The package is safe to handle and transport.
Beta-Gamma Cont. (dpm/100cm ²)	<i>10.0</i>	
Printed Name <i>JERILYN MOSSO</i>	Signature <i>Jerilyn Mossso</i>	Date <i>3/15/88</i>

III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-5.

Printed Name *BRUCE T. REICH* Date *04/29/88*
 Signature *Bruce Reich*

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	<i>17.9</i>	Survey Meter Model	<i>RO-3C</i>	Property No.	<i>2620</i>
Neutron Dose Rate (mrem/h)	<i>10.9</i>	Survey Meter Model	<i>PNR-4</i>	Property No.	<i>4901</i>
Total Dose Rate (mrem/h)	<i>11.1</i>				
Alpha Contamination (dpm/100cm ²)	<i>10.0</i>	The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.			
Beta-Gamma Cont. (dpm/100cm ²)	<i>10.0</i>				
Printed Name <i>Cherry Becken</i>	Signature <i>Cherry Becken</i>	Date <i>7/21/88</i>			

V. STORAGE SITE INFORMATION

Received by *SK* Date received *7-26-88* Pad No. *MD-53* Layer *5*

This package was visually inspected and found to be properly labeled and in good condition. It was accepted according to approved procedures.

Printed Name *Eugene Salazar* Date *7/26/88* Printed Name *Rosila F. Garcia* Date *9-2-88*
 Signature *Eugene Salazar* Signature *ROSILA F. GARCIA*

TRU CONTAINER SMEAR SURVEY DATA SHEET MAILED

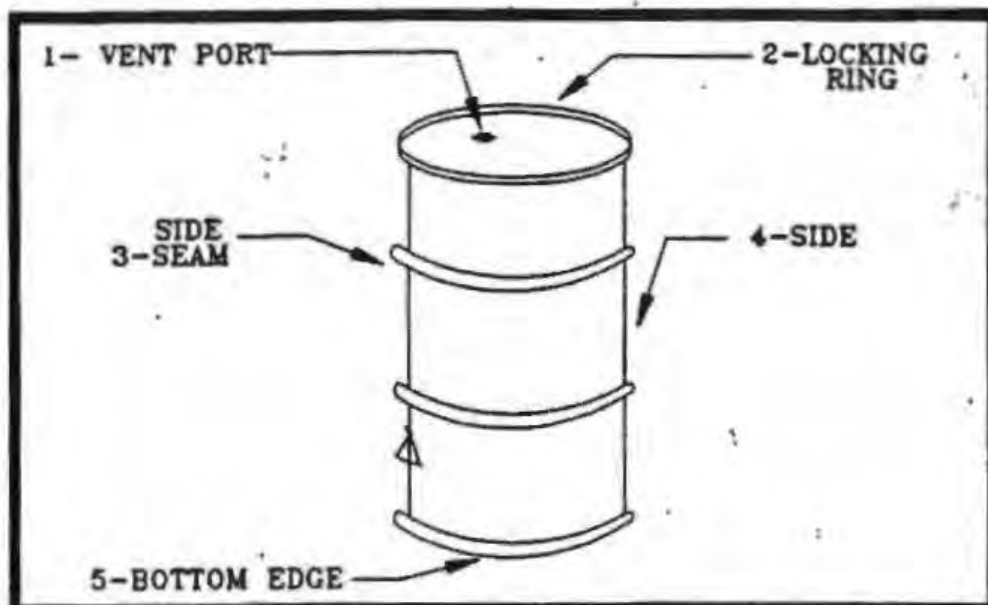
AUG 06 1993

TA 3 BUILDING 29

SAMPLE DATE 8-5-93

RPT R. Cox

CONTAINER NO. LA00000053306



Maximum Gamma Dose Rate 0.4 mR/hr.
 Maximum Neutron Dose Rate 0.0 mRem/hr.

SMEAR NO.	LOCATION	*ALPHA	*BETA-GAMMA
1	VENT PORT	NDA	NDA
2	LOCKING RING	↓	↓
3	SIDE SEAM	↓	↓
4	SIDE	↓	↓
5	BOTTOM EDGE	↓	↓

GAMMA INSTRUMENT

Model: RO-3C
 P/N: 2646
 CDD: 9-16-93

NEUTRON INSTRUMENT

Model: PNR-4
 P/N: 4905
 CDD: 9-3-93

*dpm/100cm. sq.

DISTRIBUTION:

- RPT's TA-54 MS J592
- RCT^S TA-3-29 156749
-

ANALYZED BY: David A. Barros Mike Jensen
 DATE: 8/5/93

WASTE PROFILE

TRU 006



EM-8 USE ONLY
Reference Number
C4636

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490.

Division/Group <u>NMT / NMT-2</u>	Telephone <u>7-1193</u>	Mail Stop <u>E501</u>	Technical Area <u>SS</u>	Building <u>PF-114</u>	Room <u>206</u>
--------------------------------------	----------------------------	--------------------------	-----------------------------	---------------------------	--------------------

Method of Characterization

<input type="checkbox"/> Knowledge of Process (KOP)	- OR -	<input checked="" type="checkbox"/> Chemical/Physical Analysis (specify below)
<input type="checkbox"/> MSDS attached (optional)		<input type="checkbox"/> Request for analysis <input checked="" type="checkbox"/> Analysis attached

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Nonsalvageable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgic	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)

TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 135°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

<p>Waste Origination</p> <p>A. Is this waste generated in a radiation controlled area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.</p>	<p>Radioactivity</p> <p><input type="checkbox"/> Nonradioactive <input type="checkbox"/> Suspect <input checked="" type="checkbox"/> Radioactive</p> <table> <tr> <td>Activity Measure</td> <td>Radiation Type</td> <td>Half-life</td> </tr> <tr> <td><input type="checkbox"/> ≤ 2.0 nC/g</td> <td><input checked="" type="checkbox"/> alpha</td> <td><input type="checkbox"/> t^{1/2} < 20 yr</td> </tr> <tr> <td><input type="checkbox"/> > 2.0 nC/g</td> <td><input checked="" type="checkbox"/> beta</td> <td><input checked="" type="checkbox"/> t^{1/2} ≥ 20 yr</td> </tr> <tr> <td><input type="checkbox"/> > 10.0 nC/g</td> <td><input checked="" type="checkbox"/> gamma</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> > 100 nC/g</td> <td><input type="checkbox"/> tritium</td> <td></td> </tr> </table>	Activity Measure	Radiation Type	Half-life	<input type="checkbox"/> ≤ 2.0 nC/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> t ^{1/2} < 20 yr	<input type="checkbox"/> > 2.0 nC/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> t ^{1/2} ≥ 20 yr	<input type="checkbox"/> > 10.0 nC/g	<input checked="" type="checkbox"/> gamma		<input checked="" type="checkbox"/> > 100 nC/g	<input type="checkbox"/> tritium	
Activity Measure	Radiation Type	Half-life														
<input type="checkbox"/> ≤ 2.0 nC/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> t ^{1/2} < 20 yr														
<input type="checkbox"/> > 2.0 nC/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> t ^{1/2} ≥ 20 yr														
<input type="checkbox"/> > 10.0 nC/g	<input checked="" type="checkbox"/> gamma															
<input checked="" type="checkbox"/> > 100 nC/g	<input type="checkbox"/> tritium															

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) <u>Schueler, William T.</u>	Z Number <u>106374</u>	Signature <u>William Schueler</u>	Date <u>10/14/92</u>
If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). →		Name (last, first, middle)	Mail Stop

Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-6010A
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-6020(mod)
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-6010A
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KoP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KoP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 6.0 ppm	<input type="checkbox"/> ≥ 6.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
cresol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

Waste Classification

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Non-RCRA waste | <input type="checkbox"/> RCRA-regulated solid waste | <input checked="" type="checkbox"/> RCRA-regulated hazardous waste | <input type="checkbox"/> Radioactive only |
| <input type="checkbox"/> PCB | <input type="checkbox"/> municipal refuse | <input type="checkbox"/> hazardous waste | <input type="checkbox"/> low-level waste |
| <input type="checkbox"/> non-PCB TSCA waste | <input type="checkbox"/> nonhazardous chemical waste | <input type="checkbox"/> mixed low-level waste | <input type="checkbox"/> transuranic waste |
| <input type="checkbox"/> asbestos | <input type="checkbox"/> administratively controlled waste | <input checked="" type="checkbox"/> mixed transuranic waste | |
| | <input type="checkbox"/> sanitary/industrial sludges | | |

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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EM-8 Reviewer's Signature <i>Flanagan</i>	Date 10/14/92	Cost Center/Program Code for Analysis	Reference Number 04636
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2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

DISCARDABLE WASTE LOG SHEET

Effective Date: 10/19/87

Page 1 of 1 Pages

L A B B O 1 0 0 5 0 5 9 5

WASTE PACKAGE SERIAL NUMBER

Proc.
 N-Comb
 Comb.
 Pu-238

Vent Clip or Carbon Filter installed installer's INITIALS

Lead Lined

90 Mil Drum Liner

1/8 Inch Drum Liner

CONTAINER: open In-Line

Tamper Indicating Seal # A05068

Date Sealed 02/25/88

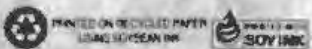
Waste Code: N/A

ITEM NO	ITEM ID	FROM RM/BOX	PKG WT Kg	MATRIX (MATERIAL)	MEAS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONNEL	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy
										ORGANICS V%	HAZARDOUS MATERIALS	OTHER REMARKS		
0	ZLR12EFIB	434 G-467	95.71	EU FIBER	ROO	9.18	52	60	Smith			7/11	Smith	02/25/88
1	ZDS9WFIA	434 G-468	30.59	EU FIBER	ROO	22.72	52	60	Smith			7/11	Smith	02/25/88
2	ZLR12EFIB	434 G-467		EU FIBER	ROO	2.53	44	99.9	Smith			2	Smith	02/25/88
3	ZDS9WFIA	434 G-468		EU FIBER	ROO	1.15	44	99.9	Smith			2	Smith	02/25/88
4														
5														
6														
7														
8														
9										22.213	Packaging			
TOTALS Pkg Wt. Kg			176.30	MST-12 signatures for Gross Weight		31.90	52		TOTALS	22.213	Haz. Mat. - Kg	N/A		
x 2.2046 = Pkg Wt Lbs			388.7	for Accountability		3.93	44		organics pounds	2.13	MST-10 Assay Value	NA		
55 gal. drum TARE Pounds			150.99						QA Data Pkg. Approval		Instrument ID.			
Scale GROSS WT. Pounds			539.66						Smith 02/25		MST-10 Signature	RW Blankenship		

This container's waste was packaged and the MST-12 data on the DMLS and the CMSR were collected according to procedures defined in the Los Alamos Certificate of Approval and the appropriate attachment(s). MST-12 Signature Charles L. Fox

~~05-2-231/0239A~~

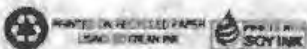
UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. AL0550010515	Manifest Document No. 53306	2. Page 1 of	Information in the shaded areas is not required by Federal law.				
3. Generator's Name and Mailing Address Los Alamos National Laboratory				A. State Manifest Document Number					
4. Generator's Phone ()				B. State Generator's ID					
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone			
9. Designated Facility Name and Site Address Los Alamos National Laboratory Mesa Del Suey Rd. TA-54 Los Alamos, NM 87545				10. US EPA ID Number		G. State Facility's ID			
				H. Facility's Phone					
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
	a.	X HQ, RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918 Solid; Elemental, AM241, P0238, P0239, P0240, P0241, P0242, 2.1726+0101, T.I.=0.0 RADIOACTIVE WASTE			1	DR	530	Y	
	b.								
	c.								
	d.								
J. Additional Descriptions for Materials Listed Above 11a. TMS				K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information EMERGENCY PHONE NO: (505) 667-6211 11a. ERGNO: 168									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Donald G. Salazar				Signature Don Salazar		Month Day Year 11/18/91			
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials								
	Printed/Typed Name Ave. Lopez				Signature Alonso		Month Day Year 11/18/91		
	18. Transporter 2 Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature		Month Day Year			
FACILITY	19. Discrepancy Indication Space								
	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.								
Printed/Typed Name Rick Martinez				Signature Rick Martinez		Month Day Year 11/18/91			



TSDF COPY

GENERATOR	UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of		Information in the shaded areas is not required by Federal law.			
	3. Generator's Name and Mailing Address <i>Los Alamos National Laboratory</i>							A. State Manifest Document Number				
	4. Generator's Phone ()							B. State Generator's ID				
	5. Transporter 1 Company Name				6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone			
	7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone			
	9. Designated Facility Name and Site Address <i>Los Alamos National Laboratory 8004 4th Busy Rd. TA-54</i>							10. US EPA ID Number		G. State Facility's ID		
								H. Facility's Phone				
	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol	
							No. Type				I. Waste No.	
	a. <i>10, RADIOACTIVE MATERIAL, FISSILE, H.O.S., 7, UN2918 Solid, Elemental, AM241, 2, 172640161, T.E.-0.0 RADIOACTIVE</i>						1		530		P	
b.												
c.												
d.												
J. Additional Descriptions for Materials Listed Above							K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information <i>EMERGENCY PHONE NO: (505) 867-8211</i>												
<p>16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.</p> <p>If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.</p>												
Printed/Typed Name <i>Aracelis G. Salazar</i>					Signature <i>Aracelis Salazar</i>			Month Day Year 				
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials											
	Printed/Typed Name <i>Aracelis Salazar</i>					Signature <i>Aracelis Salazar</i>			Month Day Year 			
	18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name					Signature			Month Day Year				
FACILITY	19. Discrepancy Indication Space											
	20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name <i>Rick Martorell</i>					Signature <i>Rick Martorell</i>			Month Day Year 				

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.		
		3. Generator's Name and Mailing Address <i>Los Alamos National Laboratory</i>					A. State Manifest Document Number
4. Generator's Phone ()		5. Transporter 1 Company Name	6. US EPA ID Number	B. State Generator's ID		C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number	D. Transporter's Phone		E. State Transporter's ID	F. Transporter's Phone	
9. Designated Facility Name and Site Address <i>Los Alamos National Laboratory Serra Del Rucy Rd. SA-54</i>		10. US EPA ID Number	G. State Facility's ID		H. Facility's Phone		
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
	a.	<i>NO. RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7. (M25195) Solid, Elemental, AM241,</i>	1	DR	630	P	
	b.	<i>2. (326) (1010), T.Y. - 0.0 RADIOACTIVE THERM...</i>					
	c.						
	d.						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <i>"EMERGENCY PHONE NO: (505) 667-6211" 11a. BRND: 165</i>							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name <i>Scott G. Salazar</i>		Signature <i>Scott G. Salazar</i>		Month Day Year 			
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials						
	Printed/Typed Name <i>Alvin Lopez</i>		Signature <i>Alvin Lopez</i>		Month Day Year 		
	18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year 			
19. Discrepancy Indication Space							
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
	Printed/Typed Name <i>Mark Martinez</i>		Signature <i>Mark Martinez</i>		Month Day Year 		



DRUM SURVEY SHEET

TA - 50-69, WCRRF

LOCATION

ROOM: 102

 103

 104

 50-193

BUILDING _____

OTHER _____

CONTAINER NUMBER: 53 306

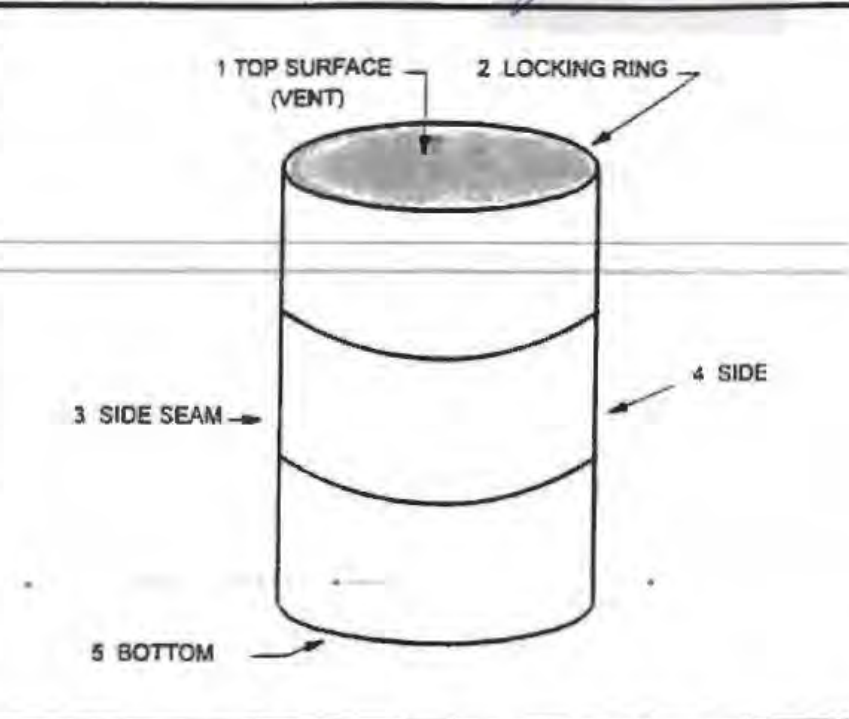
DRUM SURVEY DATE: 9 16 1996

SURVEYED BY: [Signature]
(Signature)

RCT: Salazar

 Ault

Other: Juanes Sanchez



GAMMA INSTRUMENT

MODEL: RO-2

 RO-3C

(OTHER) _____

P/N: 3 364

CAL DUE DATE: 10/3/1996

MAXIMUM GAMMA DOSE RATE

Δ contact 0.5 mR/hr

meter 0 mR/hr

NEUTRON INSTRUMENT

MODEL: ESP-2/NRD

 PNR-4

(OTHER) _____

P/N: 0031

CAL DUE DATE: 1/21/1997

MAXIMUM NEUTRON DOSE RATE

contact 0 mRem/hr

meter 0 mR/hr

SMEAR	LOCATION	ALPHA*	BETA*
1	TOP SURFACE	7.66	5.66
2	LOCKING RING	6.21	4.15
3	SIDE SEAM	2.31	2.20
4	SIDE	3.54	7.47
5	BOTTOM	0.897	0.00

ALPHA / BETA INSTRUMENT
BERTHOLD LB770, P/N 844236

DISTRIBUTION:

1. RCT's TA-50 MS E516

2. _____

3. _____

APPROVED

Bobby Gonzales

DATE: 1 1

Return-Path: <bodenstein@lanl.gov>
X-Sender: sab@wm0.lanl.gov
Date: Mon, 09 Sep 1996 14:15:16 -0600
To: aic@lanl.gov
From: bodenstein@lanl.gov (Stan Bodenstein, CST-7, 5-8462)
Subject: Dewatered Drum Shipment to TA-54
Cc: Triay@lanl.gov, jr@lanl.gov, shelmick@lanl.gov, grand@lanl.gov,
dvc@lanl.gov, aic@lanl.gov, rickmar@lanl.gov, jbalkey@lanl.gov,
ronwieneke@lanl.gov, kgruetzmacher@lanl.gov, andym@lanl.gov,
gveazey@lanl.gov, dpt@lanl.gov

I-LI,

We received the following drums from you as OVERPACKED 55 gallon drums. We dewatered each of the drums at the WCRRF.

Since each of the drums was in very good condition, we will be shipping the following list of drums back to you as 55 gallon drums, WITHOUT the overpacks. Also indicated is the change in weight due to the removal of water.

Please update the database as necessary.

Drum Number	Pounds	
	Initial Weight	Final Weight

53836	532.0	523.8	
53746	534.8	528.0	✓
53783	556.0	548.4	✓
53789	538.6	532.2	✓
53204	531.8	529.4	✓
53174	537.6	534.9	✓
53851	554.8	552.1	✓
53771	560.4	556.3	✓
53715	547.2	543.1	✓
54893	539.2	536.5	✓
52054	833.6	813.2	✓
52484	855.2	833.8	✓
53847	527.0	519.4	✓
53790	557.2	548.2	✓
53734	821.0	815.6	✓
53848	534.8	530.2	✓
54002	804.8	798.6	✓
53712	529.8	523.0	✓
52187	862.6	844.2	✓
53824	536.6	530.8	✓
53772	561.6	545.8	✓
53796	554.2	549.6	✓
53722	554.0	545.8	✓
53703	527.2	517.8	✓
53714	531.8	529.4	✓
53814	533.0	519.2	✓
54894	537.4	535.6	✓
53306	539.4	529.8	✓
53842	540.4	528.0	✓
53802	530.6	520.4	✓

Los Alamos

NATIONAL LABORATORY

53306

Environmental Management
 Environmental Stewardship Program
 EM, JS91
 Los Alamos, New Mexico 87545
 (505) 667-6639
 FAX (505) 665-8118

Date: October 2, 1996
 Refer to: EM/ES-96-253

Ms. Cynthia Longenbaugh
 Waste Management Division
 U.S. Department of Energy
 Albuquerque Operations Office
 P.O. Box 5400
 Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

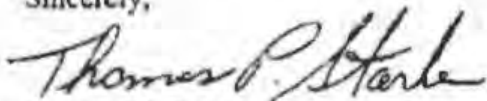
SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
 Environmental Stewardship Program Manager
 Los Alamos National Laboratory

Enclosure: a/s

TS:lma

**LAND DISPOSAL RESTRICTIONS
NOTIFICATION FORM**

A copy of this form must be attached to each Waste Profile Form and to each Uniform Hazardous Waste Manifest required to transport waste within LANL pursuant to 40 CFR 268.7(a)(1).

Waste Profile Form No. 4636	Chemical Waste/ Waste Disposal Record No. LA00000053306	Uniform Hazardous Waste Manifest No. 53306	Date of Waste Pickup 9/09/93
---------------------------------------	--	---	--

Check only one.

- Non-wastewater
 Wastewater (as defined in 40 CFR 268.2(f))

NOTIFICATION OF CALIFORNIA LIST APPLICABILITY

Check all that apply.

- Liquid hazardous waste containing PCBs at a concentration of ≥ 50 ppm.
 A D001 - D017 liquid waste containing ≥ 134 mg/l of nickel and/or ≥ 130 mg/L of thallium.
 A D001 - D011 waste containing Halogenated Organic Compounds (HOCs) listed in 40 CFR 268, Appendix III, at ≥ 1000 ppm.

NOTIFICATION OF "D" CHARACTERISTIC EPA WASTE CODES

Check all that apply.

EPA Waste Code Waste Description and/or Subcategory (as needed)

- D001 Ignitable characteristic wastes (except for the Section 261.21(a)(1) High TOC Subcategory) that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
- D001 High TOC Ignitable Characteristic Liquids Subcategory based on 40 CFR 261.21(a)(1) - Greater than 10% total organic carbon.
- D002 Corrosive Characteristic Wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
- D003 Reactive Sulfides Subcategory
- D003 Reactive Cyanides Subcategory
- D003 Water Reactive Subcategory
- D003 Other Reactives Subcategory (based on 261.23(a)(1))
- D004
- D005
- D006 Wastes that exhibit the TC for cadmium
- D006 Cadmium Containing Batteries Subcategory
- D007 Wastes that exhibit TC for lead
- D008 Lead Acid Batteries Subcategory
- ~~D005~~ ^{DGS} ₂₁₉₇ Radioactive Lead Solids Subcategory
- D009 High Mercury-Organic Subcategory (≥ 250 mg/kg Hg with organics and not incinerator residues)
- D009 High Mercury-Inorganic Subcategory (≥ 250 mg/kg Hg (with inorganics))
- D009 Low Mercury Subcategory (< 250 mg/kg Hg)
- D009 All D009 wastewaters
- D009 Elemental mercury contaminated with radioactive materials.
- D009 Hydraulic oil contaminated with Mercury Radioactive Materials Subcategory
- D010
- D011

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> D012 | <input type="checkbox"/> D020 | <input type="checkbox"/> D028 | <input type="checkbox"/> D036 |
| <input type="checkbox"/> D013 | <input type="checkbox"/> D021 | <input type="checkbox"/> D029 | <input type="checkbox"/> D037 |
| <input type="checkbox"/> D014 | <input type="checkbox"/> D022 | <input type="checkbox"/> D030 | <input type="checkbox"/> D038 |
| <input type="checkbox"/> D015 | <input type="checkbox"/> D023 | <input type="checkbox"/> D031 | <input type="checkbox"/> D039 |
| <input type="checkbox"/> D016 | <input type="checkbox"/> D024 | <input type="checkbox"/> D032 | <input type="checkbox"/> D040 |
| <input type="checkbox"/> D017 | <input type="checkbox"/> D025 | <input type="checkbox"/> D033 | <input type="checkbox"/> D041 |
| <input type="checkbox"/> D018 | <input type="checkbox"/> D026 | <input type="checkbox"/> D034 | <input type="checkbox"/> D042 |
| <input type="checkbox"/> D019 | <input type="checkbox"/> D027 | <input type="checkbox"/> D035 | <input type="checkbox"/> D043 |

All applicable Underlying Hazardous Constituents in these characteristic wastes must be checked in Table UTS.

**LAND DISPOSAL RESTRICTIONS
NOTIFICATION FORM**

NOTIFICATION FOR F001 - F005 SPENT SOLVENT WASTES

Check all that apply.

Spent solvent wastes with the following constituents only.

<u>EPA Waste Code</u>	<u>Constituents in the waste</u>	
<input type="checkbox"/> F001	<input type="checkbox"/> Acetone	<input type="checkbox"/> Isobutyl alcohol
<input type="checkbox"/> F002	<input type="checkbox"/> Benzene	<input type="checkbox"/> Methanol
<input type="checkbox"/> F003	<input type="checkbox"/> n-Butyl alcohol	<input type="checkbox"/> Methylene chloride
<input type="checkbox"/> F004	<input type="checkbox"/> Carbon disulfide (wastewater only)	<input type="checkbox"/> Methyl ethyl ketone
<input type="checkbox"/> F005	<input type="checkbox"/> Carbon tetrachloride	<input type="checkbox"/> Methyl isobutyl ketone
	<input type="checkbox"/> Chlorobenzene	<input type="checkbox"/> Nitrobenzene
	<input type="checkbox"/> o-cresol	<input type="checkbox"/> Pyridine
	<input type="checkbox"/> m-cresol	<input type="checkbox"/> Tetrachloroethylene
	<input type="checkbox"/> p-cresol	<input type="checkbox"/> Toluene
	<input type="checkbox"/> Cresol-mixed isomers (Cresylic acid)	<input type="checkbox"/> 1,1,1-Trichloroethane
	<input type="checkbox"/> Cyclohexanone (wastewater only)	<input type="checkbox"/> 1,1,2-Trichloroethane
	<input type="checkbox"/> o-Dichlorobenzene	<input type="checkbox"/> 1,1,2-Trichloro - 1,2,2-trifluoroethane
	<input type="checkbox"/> Ethyl acetate	<input type="checkbox"/> Trichloroethylene
	<input type="checkbox"/> Ethyl benzene	<input type="checkbox"/> Trichloromonofluoromethane
	<input type="checkbox"/> Ethyl ether	<input type="checkbox"/> Xylenes - mixed isomers (o-, m-, p-xylene)

Check all that apply.

<u>EPA Waste Codes</u>	<u>Constituents in the waste</u>
<input type="checkbox"/> F003	<input type="checkbox"/> Carbon disulfide
<input type="checkbox"/> F005	<input type="checkbox"/> Cyclohexanone
	<input type="checkbox"/> Methanol

Note: Treatment standards for these constituents apply to F001 - F005 wastes that contain only one, two, or all three of these constituents.

Check only one, if applicable.

<u>EPA Waste Code</u>	<u>Constituents in the waste</u>
<input type="checkbox"/> F005	<input type="checkbox"/> Containing 2-nitropropane as the only listed F001 - F005 solvent.
	<input type="checkbox"/> Containing 2-ethoxyethanol as the only listed F001 - F005 solvent.

NOTIFICATION FOR OTHER "F" WASTES

Check only one, if applicable.

- F006
- F007
- F008
- F009
- F027



CONTAINER PROFILE
53306
T-MTRU-TEMP

WS ID: 28588
C ID: 761924
ACTIVE

GENERAL INFORMATION

Container ID: 761924	
Labeled ID: 53306	
Optional ID:	Status: ACTIVE
Chemical Barcode:	Decommissioned: NO
Physical State: SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID: 28588	Container Subtype: 85-gallon steel drum
Work Path: T-MTRU-TEMP	Origin Date: 05-Aug-1993 12:00 am
Quantity (Univ):	Accum Start Date: 05-Aug-1993
Compactible:	Closed Date: 05-Aug-1993
Discard Matrix:	
TID(s):	
Gen Contact:	
Insert By: WCATS APPLICATION (000000)	
Waste Desc: (LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.	

WEIGHTS AND VOLUMES

Container Volume: 0.32 CM	Gross Weight: 612.00 lb
Waste Volume: NOT SPECIFIED	Tare Weight: 82.00 lb
	Net Weight: 470.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000153: C007: L01: R01



CONTAINER PROFILE
53306
T-MTRU-TEMP

WS ID: 28588
 C ID: 761924
 ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____
Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED
 HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	3497		0/0
Not Specified	NA	Carbon Composite	0	1871		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53306
T-MTRU-TEMP

WS ID: 28588
 C ID: 761924
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 72424, Status: Active</i>							
B/G Survey			= 0.10	=	=		Not Applicable
Neutron Survey			= 0.20	=	=		Not Applicable
Smear Results				Not Applicable		= 2.30	= 5.00

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 336303, Date: 08/05/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	3.73E+000	g	0.00E+000	N				NONE
52	3.19E+001	g	0.00E+000	N				NONE
Am-241	1.28E+001	Ci	0.00E+000	Y			Y	
Pu-238	5.47E-002	Ci	0.00E+000	Y			Y	
Pu-239	1.86E+000	Ci	0.00E+000	Y			Y	
Pu-240	4.35E-001	Ci	0.00E+000	Y			Y	
Pu-241	6.60E+000	Ci	0.00E+000	Y			Y	
Pu-242	2.51E-005	Ci	0.00E+000	Y			Y	
U-234	3.97E-006	Ci	0.00E+000	Y			Y	
U-235	6.90E-008	Ci	0.00E+000	Y			Y	

53702



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code	NML0002AAG	Inspected Items			
Year of Manufacture	1973	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents	
Box Serial Number	N/A	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint	
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.		Printed Name	Steven Gruezo	Date	8-11-93
		Signature	Steven Gruezo		

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	Group	NMT-2	Technical Area	TA-55	Building	PF4	Program Code	K567	
Additional Information: 55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM									
TIDM B20259									
CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT				C=Curie M=Gram	
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None		Nuclide	Amount +/-		Uncertainty +/-		
02	<input type="checkbox"/> Standard Waste Box	Type	Thickness (in.)	Pu, S, Zr	6.8191 E +11		. E	M	
03	<input checked="" type="checkbox"/> Other (Cell TWCO)	LEAD	6.3 E -2	Am, I, Cs	2.9710 E +10		. E	M	
04	<input type="checkbox"/> RH Canister		. E		. E		. E		
Waste Profile Request Number		04636							
Carbon Filter ID		01 LA 41133 02 LA 3763							
Process Batch Code		N/A							
Gross Weight (lb.)		16.71 E -2							
Organic Material Wt. (lb.)		4.69 E -10							
Organic Material Volume (L)		1.10							
TRUCON Code		119A							
Date Closed (MMDDYY)		08/14/93 031188							
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. The data are correct and complete to the best of my knowledge.				LEAD		D 0 0 8		3.84 E +4	
Printed Name		Kathleen M. Gruetzmacher		Signature		KM Gruetzmacher		Date	9/1/93

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	1.4 E +0	Survey Meter Model	ESR1 20-3C	Property Number	PNR-4 2646
Neutron Dose Rate (mrem/h)	7.0 E -1	Survey Meter Model	PNR 4	Property Number	5220
Total Dose Rate (mrem/h)	2.1 E +0	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	0.0 E +0	Printed Name	RJ Cox	Date	8/26/93
Beta Gamma Cont. (dpm/100cm ²)	0.0 E +0	Signature	Steve Pasatore for R.J. Cox		

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA 54 by AR 10-5	Printed Name	BRUCE LE BRUN	Date	9/4/93
	Signature	Bruce Le Brun		

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	019 114 93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	100193	Printed Name	APRI WILBER	Signature	APRI WILBER

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name	COENE E. LOPEZ	Signature	Coene E. Lopez	Date	9/20/93
--------------	----------------	-----------	----------------	------	---------

10-1-93
10-1-93

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	13.0 E - 1	Survey Meter Model	RO3C	Property Number	2620
Neutron Dose Rate (mrem/h)	15.0 E - 1	Survey Meter Model	PNR4	Property Number	5229
Total Dose Rate (mrem/h)	18.0 E - 1	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	10.0 E - 10	Printed Name	J.T. MILLER	Date	9-27-93
Beta Gamma Cont. (dpm/100cm ²)	13.2 E - 10	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Rm	Date Received	9-24-93	ORIGINAL STORAGE DATA					
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Rad Number	153	Layer	1	Row Number	4
				Column Number	27	Date Stacked (MM,DD,YY)	09/28/93		
Printed Name	Rick Martuse	Date	9-24-93	Printed Name	RENEE SANDOVAL	Date	10/6/93		
Signature	Rick Martuse			Signature	Renee Sandoval				

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name	BRUCE LE BRUN	Date	10/25/93
		Signature	Bruce Le Brun	

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	1021893	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	110193	Printed Name	APRI WILBER	Signature	APRI WILBER

12. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	111193	Printed Name	Renee Sandoval	Signature	Renee Sandoval
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2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

DISCARDABLE WASTE LOG SHEET

Effective Date 10/19/87

Page 1 of 1 Pages

L A B B O I O O 5 0 7 5 9

WASTE PACKAGE SERIAL NUMBER

Proc. N-Comb Comb Pu-238

Vent Clip or Carbon Filter installed
 installer's INITIALS

Lead Lined

90 Mil Drum Liner

1/8 Inch Drum Liner

CONTAINER: open In-Line

Tamper Indicating Seal # H05095

Date Sealed 03-11-88

Waste Code: N/A

ITM NO	ITEM ID	FROM RM/BOX	PKG WT Kg	MATRIX (MATERIAL)	MERS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONNEL	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy	
										ORGANICS % Wt.	HAZARDOUS MATERIAL	OTHER REMARKS			
0	3OX3WF1B	439 6468	57.11	Witratt Solution lean	R00	1.48	52	6.0	Smith				7/11	03/11/88	
1	3LR3EF1	437 6468	109.13	Witratt Solution lean	R00	27.51	52	6.0	Smith				7/11	03/11/88	
2	ASHALR-21	401 6466	2.21	ASH, High level concentrate	G02	17.03	52	6.0	Smith				7/12	03/11/88	
3	ASHALR-22	401 6466	2.37	ASH, High level insulator	G02	20.82	52	6.0	Smith				7/12	03/11/88	
4	2LR26EF2A	434 6468	10.07	Witratt Solution lean	R00	0.93	52	6.0	Smith				7/11	03/11/88	
5	GLSNC1130B	420 6439	0.36	Heating particulate	D01	1.14	52	6.0	Smith	0.36 material			7/13	03/11/88	
6	3OX3WF1B	434 6468		Witratt Solution lean	R00	0.15	44	99.9	Smith				2/11	03/11/88	
7	3LR3EF1	934 6468		Ultrate Solution lean	R00	2.65	44	99.9	Smith				2/11	03/11/88	
8	2LR26EF2A	434 6468		Ultrate Solution lean	R00	7.62	44	99.9	Smith				2/11	03/11/88	
9										2.2	2.13	Packaging	1	1 1	
TOTALS Pkg Wt. Kg			181.70	MST-12 signatures for Gross Weight			TOTALS			2.2	2.13	Haz. M. - Kg	N/A		
x 2.2046 = Pkg Wt Lb.			400.58	Photo Smith			Organics pounds			7.69		MST-10	Issay Value	N/A	
55 gal. drum TAPE Pounds			152.30	For Accountability check			LA Data Pkg. Approval						Instrument ID.		
Scale GROSS WT. Pounds			553.38	Photo Smith			Photo 869/25					MST-10	Signature	RN Blankenship	
This container's waste was packaged and the MST-12 data on the DWLS and the CWSR were collected according to procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s). MST-12 Signature										Charles L. Fox					

WASTE PROFILE

TRU 006

LA53702



LA53702

EM-8 USE ONLY
Reference Number <i>04636</i>

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490.

Division/Group <i>NMT / NMT-2</i>	Telephone <i>7-1193</i>	Mail Stop <i>E501</i>	Technical Area <i>55</i>	Building <i>PF-114</i>	Room <i>206</i>
--------------------------------------	----------------------------	--------------------------	-----------------------------	---------------------------	--------------------

Method of Characterization Knowledge of Process (KOP) Chemical/Physical Analysis (specify below) - OR - Request for analysis Analysis attached
 MSDS attached (optional)

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Nonsalvageable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgic	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)

TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 139°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

<p>Waste Origination</p> <p>A. Is this waste generated in a radiation controlled area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.</p>	<p>Radioactivity</p> <p><input type="checkbox"/> Nonradioactive <input type="checkbox"/> Suspect <input checked="" type="checkbox"/> Radioactive</p> <table border="0"> <tr> <td>Activity Measure</td> <td>Radiation Type</td> <td>Half-life</td> </tr> <tr> <td><input type="checkbox"/> ≤ 2.0 nC/g</td> <td><input checked="" type="checkbox"/> alpha</td> <td><input type="checkbox"/> t^{1/2} < 20 yr</td> </tr> <tr> <td><input type="checkbox"/> > 2.0 nC/g</td> <td><input checked="" type="checkbox"/> beta</td> <td><input checked="" type="checkbox"/> t^{1/2} ≥ 20 yr</td> </tr> <tr> <td><input type="checkbox"/> > 10.0 nC/g</td> <td><input checked="" type="checkbox"/> gamma</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> > 100 nC/g</td> <td><input type="checkbox"/> tritium</td> <td></td> </tr> </table>	Activity Measure	Radiation Type	Half-life	<input type="checkbox"/> ≤ 2.0 nC/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> t ^{1/2} < 20 yr	<input type="checkbox"/> > 2.0 nC/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> t ^{1/2} ≥ 20 yr	<input type="checkbox"/> > 10.0 nC/g	<input checked="" type="checkbox"/> gamma		<input checked="" type="checkbox"/> > 100 nC/g	<input type="checkbox"/> tritium	
Activity Measure	Radiation Type	Half-life														
<input type="checkbox"/> ≤ 2.0 nC/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> t ^{1/2} < 20 yr														
<input type="checkbox"/> > 2.0 nC/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> t ^{1/2} ≥ 20 yr														
<input type="checkbox"/> > 10.0 nC/g	<input checked="" type="checkbox"/> gamma															
<input checked="" type="checkbox"/> > 100 nC/g	<input type="checkbox"/> tritium															

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) <i>Schueler, William T.</i>	Z Number <i>106374</i>	Signature <i>William Schueler</i>	Date <i>10/14/92</i>
If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). -->		Name (last, first, middle)	Mail Stop

Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SW246-6010A
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SW246-6020(m)
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SW246-6010A
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 8.0 ppm	<input type="checkbox"/> ≥ 8.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
creosol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.00 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

Waste Classification

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Non-RCRA waste | <input type="checkbox"/> RCRA-regulated solid waste | <input checked="" type="checkbox"/> RCRA-regulated hazardous waste | <input type="checkbox"/> Radioactive only |
| <input type="checkbox"/> PCB | <input type="checkbox"/> municipal refuse | <input type="checkbox"/> hazardous waste | <input type="checkbox"/> low-level waste |
| <input type="checkbox"/> non-PCB TSCA waste | <input type="checkbox"/> nonhazardous chemical waste | <input type="checkbox"/> mixed low-level waste | <input type="checkbox"/> transuranic waste |
| <input type="checkbox"/> asbestos | <input type="checkbox"/> administratively controlled waste | <input checked="" type="checkbox"/> mixed transuranic waste | |
| | <input type="checkbox"/> sanitary/industrial sludges | | |

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
---------------------	---------------------	---------------------	-------------	-------------	-------------	-------------	-------------

EM-8 Reviewer's Signature

Flanagan

Date

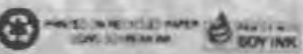
10/14/92

Cost Center/Program Code for Analysis

Reference Number

04636

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NM0890010515		Manifest Document No. 53702		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address DAVIS V CHRISTENSEN Los Alamos National Laboratory TA54 AREA G MS Los Alamos NM 87545						A. State Manifest Document Number							
4. Generator's Phone (505) 66-						B. State Generator's ID							
5. Transporter 1 Company Name LANI			6. US EPA ID Number			C. State Transporter's ID							
7. Transporter 2 Company Name			8. US EPA ID Number			D. Transporter's Phone							
9. Designated Facility Name and Site Address Los Alamos National Laboratory RONALD G SALAZAR TA50 WCRF Los Alamos, NM 87545			10. US EPA ID Number			E. State Transporter's ID							
						F. Transporter's Phone							
						G. State Facility's ID							
						H. Facility's Phone 505 66-							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
a. X <i>Waste</i> RQ, RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918 Solid, Elemental, AM44, PU52, 2.948e+01Ci, T.I. -0.7 RADIOACTIVE YELLOW II,						No. 1		671		P			
b. <i>Am241, Pu238, Pu239, Pu240, Pu241, Pu242</i>													
c.													
d.													
J. Additional Descriptions for Materials Listed Above 11a. D008, D006, D007, D008,						DISCREPANCY <input type="checkbox"/>		K. Handling Codes for Wastes Listed Above					
						<i>9/13/94</i>		<input checked="" type="checkbox"/>					
						<i>8.10</i>		JB					
15. Special Handling Instructions and Additional Information *EMERGENCY PHONE NO: (505) 667-6211* 11a. ERGNO: 165 <i>Round closure required</i> TWSR#: 53702 HMTF#:													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name DAVIS CHRISTENSEN						Signature <i>Davis Christensen</i>						Month Day Year 09/16/96	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name MIKE MARQUEZ						Signature <i>Mike Marquez</i>						Month Day Year 10/11/96	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name						Signature						Month Day Year	
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name						Signature						Month Day Year	



ORIGINAL-RETURN TO GENERATOR

Los Alamos

NATIONAL LABORATORY

557L-2

Environmental Management
Environmental Stewardship Program
EM, JS01
Los Alamos, New Mexico 87545
(505) 867-6830
FAX (505) 865-8118

Date: October 2, 1996
Refer to: EM/ES:96-253

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,

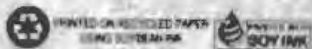


Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: w/s

TS:lma

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>HM000010615</i>	Manifest Document No. <i>53702</i>	2. Page 1 of	Information in the shaded areas is not required by Federal law.		
		3. Generator's Name and Mailing Address <i>Los Alamos National Laboratory</i>		A. State Manifest Document Number	B. State Generator's ID		
4. Generator's Phone ()		5. Transporter 1 Company Name <i>LANL</i>	6. US EPA ID Number	C. State Transporter's ID	D. Transporter's Phone		
7. Transporter 2 Company Name		8. US EPA ID Number	9. Designated Facility Name and Site Address <i>Los Alamos National Laboratory Mesa Del Buey Rd. TA-54 Los Alamos, NM 87545</i>	10. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone G. State Facility's ID H. Facility's Phone		
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers	13. Total Quantity	14. Unit W/Vol	1. Waste No.	
	a. <i>RO, WASTE RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918 Solid, Elemental, AM241, 20278, 20235, 20240, 20241, 20242</i>		No. <i>1</i>	Type	<i>671</i>		
	b. <i>2.947g+0.01g, T.I.=0.1 RADIOACTIVE YELLOW II, 1.0715g</i>						
	c.						
	d.						
J. Additional Descriptions for Materials Listed Above <i>11a. 10005 002-0007</i>		K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information <i>*EMERGENCY PHONE NO: (505) 667-5211*</i> <i>11a. ERGNO: 165</i> <i>Food Chain required</i> <i>THRE: 53702 HMTR: 16415</i>							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name <i>Ronald D. Salazar</i>		Signature <i>Ron Salazar</i>		Month Day Year <i>11/17/96</i>			
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name <i>John May</i>		Signature <i>John May</i>	Month Day Year <i>11/17/96</i>	
	18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	Month Day Year	
FACILITY	19. Discrepancy Indication Space						
	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name <i>RICK MARTINEZ</i>		Signature <i>Rick Martinez</i>		Month Day Year <i>11/20/96</i>			

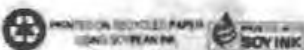


TSDF COPY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Los Alamos National Laboratory				A. State Manifest Document Number		
4. Generator's Phone ()				B. State Generator's ID		
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address Los Alamos National Laboratory Mesita Del Buey Rd. TA-54 Los Alamos, NM 87545		10. US EPA ID Number		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
				Type		1. Waste No.
a.	* RO, WASTE RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2915 Solid, Elemental, AM241, BU239, BU239, BU240, BU241, BU242			1	671	
b.	2. 947-01C1 T.I.=0.1 RADIOACTIVE YELLOW LI. 1.0710g					
c.						
d.						
J. Additional Descriptions for Materials Listed Above 11a - D004				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information *EMERGENCY PHONE NO: (505) 667-6211* 11a. ERGNO: 165 Knox County, Tennessee TWB04 51702 HSTP81 16415						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name Ronald G. Salazar		Signature Ron Salazar		Month Day Year 11/18/96		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name Michael May		Signature Michael May		Month Day Year 11/20/96		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name Rick Martinez		Signature Rick Martinez		Month Day Year 11/20/96		



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address Los Alamos National Laboratory						A. State Manifest Document Number							
4. Generator's Phone ()						B. State Generator's ID							
5. Transporter 1 Company Name			6. US EPA ID Number			C. State Transporter's ID							
7. Transporter 2 Company Name						D. Transporter's Phone							
8. US EPA ID Number			E. State Transporter's ID			F. Transporter's Phone							
9. Designated Facility Name and Site Address Los Alamos National Laboratory Mesa Del Buey Rd. TA-54 Los Alamos, NM 87545						G. State Facility's ID							
10. US EPA ID Number						H. Facility's Phone							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
a. NO. WASTE RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918 Solid, Elemental, AM241, PUS30, PUS38, PUS40, PUS41, PUS42, 2.347e+01Ci, T.I.=0.1 RADIOACTIVE YELLOW II, 10/1/96						1		671		1			
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information EMERGENCY PHONE NO: (505) 667-8211 11a. IRGNO: 165 THREE, 33702 HWY: 164, 5													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name Ron Salomon				Signature Ron Salomon				Month Day Year 11/1/96					
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name Phil May				Signature Phil May				Month Day Year 11/1/96					
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name				Signature				Month Day Year					
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name Rick Martinez				Signature Rick Martinez				Month Day Year 11/20/96					



The following 31 drums were shipped to TA-54 on 11/20/96. All drums were originally received at WCRRF in overpacks and all drums in this shipment were returned to TA-54 without overpacks.

In some cases the drum weight increased a small fraction. This is due to very little, or zero, liquid being drained from the drum, and some consumables used to clean process components, the drum lid, bolting ring, and drum flange during the process were added to the drum prior to final closure.

Please adjust the data base as necessary.

Thank you!

Stan

Drum	Initial Weight Pounds	Final Weight Pounds	Comments
52016	792.2	777.2	
52169	840.6	832.4	
52605	828.6	819.6	
52608	803.2	794.4	
52609	829.4	832.8	
52615	763.8	763.2	
53702	553.4	542.8	
53705	543.4	538.2	
53709	509.4	510.0	
53730	824.6	825.2	
53732	863.6	859.0	
53739	841.0	840.6	
53787	533.8	527.0	
53807	531.8	526.0	
53809	531.8	528.8	
53810	540.4	526.2	
53811	558.8	549.6	
53812	529.6	525.6	
53820	501.8	454.2	
53821	518.2	514.2	
53827	524.4	520.0	
53828	547.4	544.8	
53829	544.2	538.0	
53830	545.8	537.8	
53833	548.2	547.8	
53835	574.4	563.0	
53840	532.8	528.8	
53843	530.2	525.2	
53844	548.6	540.4	
54040	783.4	779.4	
54890	530.8	530.4	

Stan Bodenstein, Facility Engineer, CST-7, MS E516
Waste Characterization, Reduction, and Repackaging Facility (WCRRF)
LANL, Los Alamos, NM 87545
Voice 505-665-8462, Fax 505-665-7567

**LAND DISPOSAL RESTRICTIONS
NOTIFICATION FORM**

A copy of this form must be attached to each Waste Profile Form and to each Uniform Hazardous Waste Manifest required to transport waste within LAN. Quant to 40 CFR 268.7(a)(1).

Waste Profile Form No. 46.36	Chemical Waste/ Waste Disposal Record No. LA00000053702	Uniform Hazardous Waste Manifest No. 53702	Date of Waste Pickup 9/24/93
--	--	---	--

Check only one.

- Non-wastewater
 Wastewater (as defined in 40 CFR 268.2(f))

NOTIFICATION OF CALIFORNIA LIST APPLICABILITY

Check all that apply.

- Liquid hazardous waste containing PCBs at a concentration of ≥ 50 ppm.
 A D001 - D017 liquid waste containing ≥ 134 mg/l. of nickel and/or ≥ 130 mg/L of thallium.
 A D001 - D011 waste containing Halogenated Organic Compounds (HOCs) listed in 40 CFR 268, Appendix III, at ≥ 1000 ppm.

NOTIFICATION OF "D" CHARACTERISTIC EPA WASTE CODES

Check all that apply.

- | EPA Waste Code | Waste Description and/or Subcategory (as needed) |
|--|---|
| <input type="checkbox"/> D001 | Ignitable characteristic wastes (except for the Section 261.21(a)(1) High TOC Subcategory) that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems. |
| <input type="checkbox"/> D001 | High TOC Ignitable Characteristic Liquids Subcategory based on 40 CFR 261.21(a)(1) - Greater than 10% total organic carbon. |
| <input type="checkbox"/> D002 | Corrosive Characteristic Wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems. |
| <input type="checkbox"/> D003 | Reactive Sulfides Subcategory |
| <input type="checkbox"/> D003 | Reactive Cyanides Subcategory |
| <input type="checkbox"/> D003 | Water Reactive Subcategory |
| <input type="checkbox"/> D003 | Other Reactives Subcategory (based on 261.23(a)(1)) |
| <input type="checkbox"/> D004 | |
| <input type="checkbox"/> D005 | |
| <input checked="" type="checkbox"/> D006 | Wastes that exhibit the TC for cadmium |
| <input type="checkbox"/> D006 | Cadmium Containing Batteries Subcategory |
| <input checked="" type="checkbox"/> D007 | |
| <input checked="" type="checkbox"/> D008 | Wastes that exhibit TC for lead |
| <input type="checkbox"/> D008 | Lead Acid Batteries Subcategory |
| <input checked="" type="checkbox"/> D009 | Radioactive Lead Solids Subcategory |
| <input type="checkbox"/> D009 | High Mercury-Organic Subcategory (≥ 260 mg/kg Hg with organics and not incinerator residues) |
| <input type="checkbox"/> D009 | High Mercury-Inorganic Subcategory (≥ 260 mg/kg Hg [with inorganics]) |
| <input type="checkbox"/> D009 | Low Mercury Subcategory (< 260 mg/kg Hg) |
| <input type="checkbox"/> D009 | All D009 wastewaters |
| <input type="checkbox"/> D009 | Elemental mercury contaminated with radioactive materials. |
| <input type="checkbox"/> D009 | Hydraulic oil contaminated with Mercury Radioactive Materials Subcategory |
| <input type="checkbox"/> D010 | |
| <input type="checkbox"/> D011 | |

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> D012 | <input type="checkbox"/> D020 | <input type="checkbox"/> D028 | <input type="checkbox"/> D036 |
| <input type="checkbox"/> D013 | <input type="checkbox"/> D021 | <input type="checkbox"/> D029 | <input type="checkbox"/> D037 |
| <input type="checkbox"/> D014 | <input type="checkbox"/> D022 | <input type="checkbox"/> D030 | <input type="checkbox"/> D038 |
| <input type="checkbox"/> D015 | <input type="checkbox"/> D023 | <input type="checkbox"/> D031 | <input type="checkbox"/> D039 |
| <input type="checkbox"/> D016 | <input type="checkbox"/> D024 | <input type="checkbox"/> D032 | <input type="checkbox"/> D040 |
| <input type="checkbox"/> D017 | <input type="checkbox"/> D025 | <input type="checkbox"/> D033 | <input type="checkbox"/> D041 |
| <input type="checkbox"/> D018 | <input type="checkbox"/> D026 | <input type="checkbox"/> D034 | <input type="checkbox"/> D042 |
| <input type="checkbox"/> D019 | <input type="checkbox"/> D027 | <input type="checkbox"/> D035 | <input type="checkbox"/> D043 |

All applicable Underlying Hazardous Constituents in these characteristic wastes must be checked in Table UTS.




CONTAINER PROFILE

53702

T-MTRU-TEMP

WS ID: 28588
C ID: 767561
ACTIVE

GENERAL INFORMATION

Container ID:	767561	
Labeled ID:	53702	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28588	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 11-Aug-1993 12:00 am
Quantity (Univ):		Accum Start Date: 11-Aug-1993
Compactible:		Closed Date: 11-Aug-1993
Discard Matrix:		
TID(s):		
Gen Contact:		
Insert By:	WCATS APPLICATION (000000)	
Waste Desc:	(LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.	

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	625.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	82.00 lb
		Net Weight:	543.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000230: C028: L01: R03



CONTAINER PROFILE

53702

T-MTRU-TEMP

WS ID: 28588
C ID: 767561
ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993

Lot No.: _____ **Serial No:** _____

Solution Package: 57: SP AG Cement Cans No Issues

TRUCON Code: LA114A: SOLIDIFIED INORGANIC

Shipping Category: _____

CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste

WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE

Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED HOMOGENEOUS SOLIDS

Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible

Adeq. Ventilation: YES **Compliant Metal Cont.:** YES

Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4

Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	4133		0/0
Not Specified	NA	Carbon Composite	0	3763		0/0
Not Specified	NA	NA	0	NUCFIL HK-534		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53702
T-MTRU-TEMP

WS ID: 28588
 C ID: 767561
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm ²	Beta/Gama dpm/100 cm ²
<i>Survey ID: 73142, Status: Active</i>							
B/G Survey			= 0.30	=	=		Not Applicable
Neutron Survey			= 0.50	=	=		Not Applicable
Smear Results				Not Applicable		= 0.00	= 3.20

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
---------	--------	------	--------	------------------	-----------------	------------------	-------------------	--------------------------

Status: Inactive, Assay Page: 337628, Date: 08/11/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)

44	2.97E+000	g	0.00E+000	N				NONE
52	6.89E+001	g	0.00E+000	N				NONE
Am-241	1.02E+001	Ci	0.00E+000	Y			Y	
Pu-238	1.18E-001	Ci	0.00E+000	Y			Y	
Pu-239	4.01E+000	Ci	0.00E+000	Y			Y	
Pu-240	9.39E-001	Ci	0.00E+000	Y			Y	
Pu-241	1.43E+001	Ci	0.00E+000	Y			Y	
Pu-242	5.43E-005	Ci	0.00E+000	Y			Y	
U-234	8.58E-006	Ci	0.00E+000	Y			Y	
U-235	1.49E-007	Ci	0.00E+000	Y			Y	

Status: Active, Assay Page: 393503, Date: 07/23/2012, Derivation: Non-Destructive Assay (NDA)

Am-241	8.44E+000	Ci	2.34E+000	N			Y	
Am-243	1.71E-003	Ci	4.39E-004	N			Y	
Np-237	1.68E-004	Ci	4.32E-005	N			Y	
Pu-238	9.10E-002	Ci	3.52E-002	N			Y	
Pu-239	3.36E+000	Ci	1.21E+000	N			Y	
Pu-240	7.86E-001	Ci	3.04E-001	N			Y	
Pu-241	7.24E+000	Ci	2.80E+000	N			Y	
Pu-242	4.53E-005	Ci	1.75E-005	N			Y	
U-235	0.00E+000	Ci	0.00E+000	N			Y	

53703



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code: <u>NAL 0106AAG</u>	Inspected Items		
Year of Manufacture: <u>913</u>	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number: <u>N/A</u>	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	Printed Name: <u>Steven Griego</u>	Date: <u>8-5-93</u>	
	Signature: <u>Steven Griego</u>		

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	Group: <u>NMT-2</u>	Technical Area: <u>TA-55</u>	Building: <u>PF4</u>	Program Code: <u>K567</u>				
Additional Information: <u>55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM</u>								
<u>TID# B20163</u>								
CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT				Co-Curie MicroGram
		Type	Thickness (in.)	Nuclide	Amount +/-		Uncertainty +/-	
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None						
02	<input type="checkbox"/> Standard Waste Box			<u>Pu-239</u>	<u>2.3131</u>	<u>E +11</u>	<u>. E </u>	<u>M</u>
03	<input checked="" type="checkbox"/> Other (Call TW00)	<u>LEAD</u>	<u>6.3 E-2</u>	<u>Am-241</u>	<u>2.91210</u>	<u>E +10</u>	<u>. E </u>	<u>M</u>
04	<input type="checkbox"/> RH Canister							
Waste Profile Request Number: <u>04636</u>								
Carbon Filter ID: <u>01 LA 411119</u>		<u>02 DP 203297</u>						
Process Batch Code: <u>N/A</u>								
Gross Weight (lb.): <u>16.513 E 1.12</u>		NONRADIOACTIVE HAZARDOUS MATERIALS						
Organic Material Wt (lb.): <u>4.619 E 1.10</u>				Name	EPA Code	Quantity (g)		
Organic Material Volume (L): <u>11.10</u>				<u>LEAD SHIELDING</u>	<u>D 0 0 8</u>	<u>3.81 E +1</u>		
TRUCON Code: <u>11141A</u>				<u>CADMIUM</u>	<u>D 0 0 6</u>	<u>3.69 E +0</u>		
Date Closed (MM/DD/YY): <u>08/05/93</u>		<u>021988</u>		<u>CHROMIUM</u>	<u>D 0 0 7</u>	<u>1.5 E +1</u>		
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. The data is correct and complete to the best of my knowledge.				<u>LEAD</u>	<u>D 0 0 8</u>	<u>1.5 E +1</u>		
Printed Name: <u>Kathleen M. Gruetzmacher</u>		Signature: <u>KM Gruetzmacher</u>		Date: <u>8/11/93</u>				

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h): <u>7.0 E 1.1</u>	Survey Meter Model: <u>RO-3C</u>	Property Number: <u>2646</u>
Neutron Dose Rate (mrem/h): <u>10.0 E 1.0</u>	Survey Meter Model: <u>PNR-4</u>	Property Number: <u>4905</u>
Total Dose Rate (mrem/h): <u>7.0 E 1.1</u>	The data in this section were collected according to approved procedures.	
Alpha Contamination (dpm/100cm ²): <u>10.0 E 1.0</u>	Printed Name: <u>RJCa</u>	Date: <u>8/9/93</u>
Beta-Gamma Cont. (dpm/100cm ²): <u>10.0 E 1.0</u>	Signature: <u>RJCa</u>	

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA 54 by AR 10.5	Printed Name: <u>BRUCE LE BRUN</u>	Date: <u>8/12/93</u>
	Signature: <u>Bruce Le Brun</u>	

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	0181693	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	092193	Printed Name	HARRI WILDER	Signature	HARRI WILDER

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name	Alene E. Lopez	Signature	Alene E. Lopez	Date	8-30-93
--------------	----------------	-----------	----------------	------	---------

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	15.0E-11	Survey Meter Model	RO3-C	Property Number	2620
Neutron Dose Rate (mrem/h)	18.0E-11	Survey Meter Model	PNR-4	Property Number	5229
Total Dose Rate (mrem/h)	1.3E+10	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	1.1E+10	Printed Name	J.T. MILLER	Date	9-13-93
Beta Gamma Cont. (dpm/100cm ²)	18.0E+10	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	RM	Date Received	9-9-93	ORIGINAL STORAGE DATA					
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Part Number	153	Layer	2	Row Number	6
				Column Number	21	Date Stacked (MM,DD,YY)	09/14/93		
Printed Name	Dick Martinez	Date	9-9-93	Printed Name	Charlotte Fernandez	Date	9/15/93		
Signature	Dick Martinez			Signature	Charlotte Fernandez				

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name	BRUCE LE BRUN	Date	11/19/93
	Signature	Bruce Le Brun		

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	1102793	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	110193	Printed Name	HARRI WILDER	Signature	HARRI WILDER

12. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	120693	Printed Name	Kenee Sandoval	Signature	Kenee Sandoval
----------------------	--------	--------------	----------------	-----------	----------------

Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545



WASTE STORAGE RECORD

WASTE PACKAGE SERIAL NUMBER

LA 8 8 0 1 0 0 5 0 5 9 1

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	ADDITIONAL INFORMATION
Group: <u>MST-12</u>	<u>TIP # H-05-864</u>
TA: <u>55</u>	
Building: <u>VF-4</u>	
Program Code: <u>A530</u>	
	<u>LUD-139 PN3650</u>
	<u>FIXED ALPHA - NDA</u>

CODE	CONTAINER	INTERNAL SHIELDING	RADIONUCLIDE CONTENT		G - Curie M - Gram
			Nuclide	Amount	
01	<input checked="" type="checkbox"/> Steel Drum (55 gal.)	Type: <u>6.3 EI-12</u> None, Lead, Steel, Concrete, Other	<u>Pk 5.2</u>	<u>2.331</u>	<u>E + 1 M</u>
02	<input type="checkbox"/> Steel Overpack (Drum)		<u>Am 4.4</u>	<u>2.920</u>	<u>E + 0 M</u>
03	<input type="checkbox"/> Steel Box (88 in. X 54 in. X 38.5 in.)				
04	<input type="checkbox"/> Steel Overpack (FRP Box)				
	<input type="checkbox"/> Other (Describe)				
Drum Lot Code: <u>H1</u>	Year of Mfr: <u>87</u>				
Manufacturer's Box Serial Number	Process Batch Code				

HAZARDOUS MATERIALS			
Name	EPA Code	Quantity (g)	
<u>Lead</u>	<u>D008</u>	<u>3.8</u>	<u>E + 1 M</u>
Gross Wt. (lb): <u>5.35</u>	Organic Mat'l Wt. (lb): <u>4.69</u>	Organic Mat'l Vol. (%): <u>0.06</u>	Date Closed (MMDDYY): <u>10.21.98.8</u>

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name: Chester A Smith Sr Signature: [Signature] Date: 07-22-88

II. GENERATOR-SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h): <u>0.5</u>	Survey Meter Model: <u>RO-3C</u>	Property No: <u>2614</u>
Neutron Dose Rate (mrem/h): <u>0.5</u>	Survey Meter Model: <u>PNR-4</u>	Property No: <u>4913</u>
Total Dose Rate (mrem/h): <u>1.0</u>		

Alpha Contamination (dpm/100cm²): 2.0
 Beta-Gamma Cont. (dpm/100cm²): 5.2

The data in this section were collected as prescribed in approved procedures. The package is safe to handle and transport.

Printed Name: JERILYN MOSSO Signature: [Signature] Date: 3/15/88

III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-5.

Printed Name: BRUCE T. REICH Date: 04/29/88
 Signature: [Signature]

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h): <u>3.0</u>	Survey Meter Model: <u>RO-3C</u>	Property No: <u>2610</u>
Neutron Dose Rate (mrem/h): <u>9.0</u>	Survey Meter Model: <u>PNR-4</u>	Property No: <u>4905</u>
Total Dose Rate (mrem/h): <u>1.2</u>		
Alpha Contamination (dpm/100cm ²): <u>0.0</u>	The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.	
Beta-Gamma Cont. (dpm/100cm ²): <u>2.7</u>		
Printed Name: <u>Glean Corbin</u>	Signature: <u>[Signature]</u>	Date: <u>5/23/88</u>

V. STORAGE SITE INFORMATION

Received by: Keith Carter Date received: 5/16/88 Pad No: 5 Layer: 2

This package was visually inspected and found to be properly labeled and in good condition. It was accepted according to approved procedures.

Printed Name: KEITH CARTER Date: 5/16/88 Signature: [Signature]

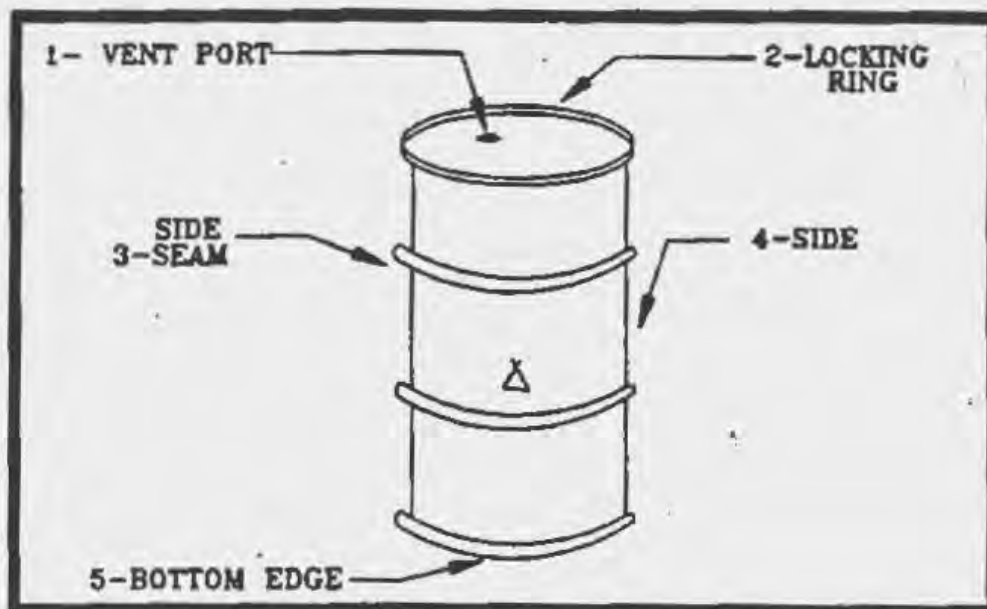
Printed Name: ROSILA F. GARCIA Date: 7-7-82 Signature: [Signature]

TRU CONTAINER SMEAR SURVEY DATA SHEET

MAILED

AUG 06 1993

TA 3 BUILDING 29 SAMPLE DATE 8-5-93
 RPT R. Cox CONTAINER NO. LA00000053703



△ Maximum Gamma Dose Rate 0.7 mR/hr.
 □ Maximum Neutron Dose Rate 0.0 mRem/hr.

SMEAR NO.	LOCATION	*ALPHA	*BETA-GAMMA
1	VENT PORT	NDA	NDA
2	LOCKING RING	↓	↓
3	SIDE SEAM	↓	↓
4	SIDE	↓	↓
5	BOTTOM EDGE	↓	↓

GAMMA INSTRUMENT

Model: RO-3C
 P/N: 2646
 CDD: 9-16-93

NEUTRON INSTRUMENT

Model: PNB-4
 P/N: 4905
 CDD: 9-3-93

*dpm/100cm. sq.

DISTRIBUTION:

1. RPT's TA-54 MS J592
2. RCT^S TA-3-29 MS G749
3. _____

ANALYZED BY: David A Barnes Mike Green
 DATE: 8/6/93

2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

DISCARDABLE WASTE LOG SHEET

Effective Date 10/19/87

Page 1 of 1 Pages

L A B B O I O O 5 0 5 9 1

WASTE PACKAGE SERIAL NUMBER

Proc. N-Comb Comb Pu-238

Vent Clip or Carbon Filter installed DM installer's INITIALS

Lead Lined

90 Mil Drum Liner

1/8 Inch Drum Liner

CONTAINER: open In-Line

Tamper Indicating Seal # A05064

Date Sealed 02-14-88

Waste Code: U/A

ITH NO	ITEM ID	FROM RM/BOX	PKG WT Kg	MATRIX (MATERIAL)	MERS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONNEL	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy	
										ORGANICS V%	HAZARDOUS MATERIALS	OTHER REMARKS			
0	1DS2IEF1B	434 6469	143.72	Substrate	R00	21.86	52	6.0	Smith			7/11	Smith	02/17/88	
1	2OX8WF1A	434 6467	29.86	Substrate	R00	1.45	58	5.9	Smith			7/11	Smith	02/19/88	
2	1DS2IEF1B	434 6468	61.8	Substrate	R00	2.68	44	99.9	Smith			2	Smith	02/17/88	
3	2OX8WF1A	434 6467		Substrate	R00	0.24	44	99.9	Smith			2	Smith	02/19/88	
4				1 Nitrate salt									/	/ /	
5				1 Nitrate salt									/	/ /	
6				2 Nitrate salt									/	/ /	
7				3 Nitrate salt									/	/ /	
8													/	/ /	
9										2.2	2.13	Packaging	/	/ /	
TOTALS Pkg Wt. Kg			173.46	MST-12 signatures for Gross Weight			23.31	52	TOTALS			2.2	2.13	Hazz Mat. - Kg	
x 2.2046 = Pkg Wt Lbs			382.41	for Accountability			2.92	44	organics pounds			4.69	MST-10 Assay Value NA		
55 gal. drum TAPE Pounds			152.80						QA Data Pkg. Approval				Instrument ID.		
Scale GROSS WT. Pounds			535.21						Smith 88/4/25				MST-10 Signature RW Blankenship		

This container's waste was packaged, and the MST-12 data on the DMLS and the CHSR were collected according to procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s). MST-12 Signature Charles L. Fox

A05-2-231/0239A

LOS ALAMOS

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

WASTE PROFILE

TRU 006

WLA53703



LA53703

EM-8 USE ONLY

Reference Number

04636

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490

Division/Group NMT / NMT-2	Telephone 7-1193	Mail Stop E501	Technical Area 55	Building PF-114	Room 206
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Method of Characterization Knowledge of Process (KOP) MSDS attached (optional) - OR - Chemical/Physical Analysis (specify below) Request for analysis Analysis attached

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Non salvageable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgic	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)

TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 130°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

Waste Origination

A. Is this waste generated in a radiation controlled area? Yes No

B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) Yes No

C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity

Nonradioactive Suspect Radioactive

Activity Measure	Radiation Type	Half-life
<input type="checkbox"/> ≤ 2.0 nC/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> 1 ^{yr} < 20 yr
<input type="checkbox"/> > 2.0 nC/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> 1 ^{yr} ≥ 20 yr
<input type="checkbox"/> > 10.0 nC/g	<input checked="" type="checkbox"/> gamma	
<input checked="" type="checkbox"/> > 100 nC/g	<input type="checkbox"/> tritium	

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) Schueler, William T.	Z Number 106374	Signature William Schueler	Date 10/14/92
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If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). →	Name (last, first, middle)	Mail Stop
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Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWR46-6010A
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWR46-6020(mod)
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWR46-6010A
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KoP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KoP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 6.0 ppm	<input type="checkbox"/> ≥ 6.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
creosol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

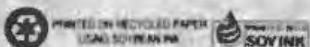
Waste Classification

<input type="checkbox"/> Non-RCRA waste	<input type="checkbox"/> RCRA-regulated solid waste	<input checked="" type="checkbox"/> RCRA-regulated hazardous waste	<input type="checkbox"/> Radioactive only
<input type="checkbox"/> PCB	<input type="checkbox"/> municipal refuse	<input type="checkbox"/> hazardous waste	<input type="checkbox"/> low-level waste
<input type="checkbox"/> non-PCB TSCA waste	<input type="checkbox"/> nonhazardous chemical waste	<input type="checkbox"/> mixed low-level waste	<input type="checkbox"/> transuranic waste
<input type="checkbox"/> asbestos	<input type="checkbox"/> administratively controlled waste	<input checked="" type="checkbox"/> mixed transuranic waste	
	<input type="checkbox"/> sanitary/industrial sludges		

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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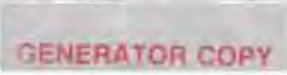
EM-8 Reviewer's Signature <i>Flanagan</i>	Date 10/14/92	Cost Center/Program Code for Analysis	Reference Number 04636
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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address			A. State Manifest Document Number		B. State Generator's ID	
4. Generator's Phone ()			C. State Transporter's ID		D. Transporter's Phone	
5. Transporter 1 Company Name		6. US EPA ID Number	E. State Transporter's ID		F. Transporter's Phone	
7. Transporter 2 Company Name		8. US EPA ID Number	G. State Facility's ID		H. Facility's Phone	
9. Designated Facility Name and Site Address			10. US EPA ID Number			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
b. <input checked="" type="checkbox"/> HO, RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918 Solid, Elemental, AM241, PU238, PU239, PU240, PU241, PU242, 1-634a+01G1, T.I.=O.O RADIOACTIVE YELLOW II,			1	DR	518	P
c.						
d.						
J. Additional Descriptions for Materials Listed Above			K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information			<p>EMERGENCY PHONE NO: (305) 667-6211</p> <p>11a. CRONO: 165 <i>Vertical closure required</i></p>			
<p>16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.</p> <p>If I am a large quantity generator I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.</p>						
Printed/Typed Name			Signature		Month Day Year	
Ronald G. Salazar			<i>Ronald G. Salazar</i>		09/18/96	
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year	
Vince Acosta			<i>Vince Acosta</i>		09/18/96	
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name			Signature		Month Day Year	
Rick Martinez			<i>Rick Martinez</i>		10/19/96	



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address			A. State Manifest Document Number				
4. Generator's Phone ()			B. State Generator's ID				
5. Transporter 1 Company Name		6. US EPA ID Number	C. State Transporter's ID				
7. Transporter 2 Company Name		8. US EPA ID Number	D. Transporter's Phone				
9. Designated Facility Name and Site Address		10. US EPA ID Number	E. State Transporter's ID				
			F. Transporter's Phone				
			G. State Facility's ID				
			H. Facility's Phone				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NO RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2919 Solid, Elemental, AM241, 1.5545+01Cl, T.P.-0.0 RADIOACTIVE YELLOW II,			1	DR	515	P	
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above			K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information							
EMERGENCY PHONE NO: 1565 667-6211 11a. ERUND: 165							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Renee B. Salazar			Signature Renee Salazar		Month Day Year 11/19/96		
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name Cristina			Signature Cristina		Month Day Year 11/19/96		
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name			Signature		Month Day Year		
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name Rick Martinez			Signature Rick Martinez		Month Day Year 11/19/96		

GENERATOR
TRANSPORTER
FACILITY



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address			A. State Manifest Document Number			
4. Generator's Phone ()			B. State Generator's ID			
5. Transporter 1 Company Name		6. US EPA ID Number	C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number	D. Transporter's Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number	E. State Transporter's ID			
			F. Transporter's Phone			
			G. State Facility's ID			
			H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NO RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918 Solid, Elemental, AM241, Pu238, Pu239, Pu240, Pu241, Pu242, I-654e-DIGI, T.I.-0.0 RADIOACTIVE YELLOW II,			1	DR	510	P
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above			K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information						
EMERGENCY PHONE NO: (505) 667-6211 ECHO: 665						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name RUBEN G. SALAZAR			Signature Ruben Salazar		Month Day Year 11/1/96	
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name VALERIE ANN			Signature Valerie Ann		Month Day Year 11/1/96	
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name Rick Martinez			Signature Rick Martinez		Month Day Year 11/1/96	

DRUM SURVEY SHEET

TA - 50-69, WCRRF

LOCATION

ROOM: 102

103

104

50-193

BUILDING _____

OTHER _____

CONTAINER NUMBER: 53703

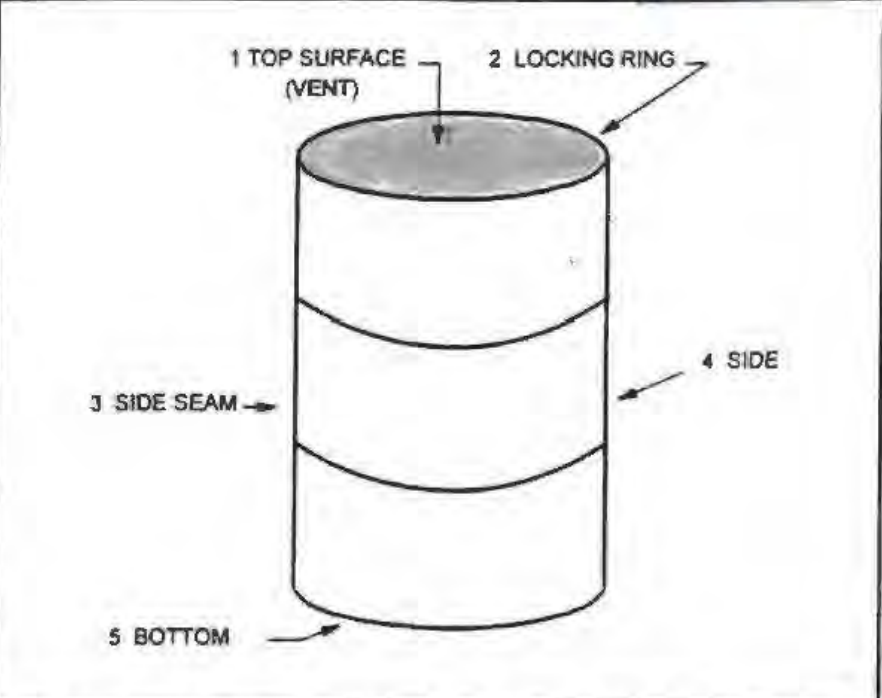
DRUM SURVEY DATE: 9/16/96

SURVEYED BY: K. Gonzalez
(Signature)

RCT: Salazar

Ault

Other: James Sanchez



GAMMA INSTRUMENT

MODEL: RO-2

RO-3C

(OTHER)

P/N: 3364

CAL DUE DATE: 10/3/96

MAXIMUM GAMMA DOSE RATE

0.8 mR/hr
contact metal

NEUTRON INSTRUMENT

MODEL: ESP-2/NRD

PNR-4

(OTHER)

P/N: 8031

CAL DUE DATE: 1/29/97

MAXIMUM NEUTRON DOSE RATE

0.8 mRem/hr
contact metal

SMEAR	LOCATION	ALPHA*	BETA*
1	TOP SURFACE	16.8	4.09
2	LOCKING RING	10.1	8.97
3	SIDE SEAM	1.000	2.06
4	SIDE	7.39	0.000
5	BOTTOM	0.897	9.25

ALPHA / BETA INSTRUMENT
BERTHOLD LB770, P/N 844236

DISTRIBUTION:

1. RCT's TA-50 MS E516

2. _____

3. _____

APPROVED

Bobby Gonzales

DATE: / /

Stan Bodenstein, CS, 02:15 PM 9/9/96 -, Dewatered Drum Shipment to TA-

Return-Path: <bodenstein@lanl.gov>
X-Sender: sab@wm0.lanl.gov
Date: Mon, 09 Sep 1996 14:15:16 -0600
To: aic@lanl.gov
From: bodenstein@lanl.gov (Stan Bodenstein, CST-7, 5-8462)
Subject: Dewatered Drum Shipment to TA-54
Cc: Triay@lanl.gov, jrj@lanl.gov, shelmick@lanl.gov, grand@lanl.gov,
dvc@lanl.gov, aic@lanl.gov, rickmar@lanl.gov, jbalkey@lanl.gov,
ronwieneke@lanl.gov, kgruetzmacher@lanl.gov, andym@lanl.gov,
gveazey@lanl.gov, dpt@lanl.gov

I-Li,

We received the following drums from you as OVERPACKED 55 gallon drums. We dewatered each of the drums at the WCRRF.

Since each of the drums was in very good condition, we will be shipping the following list of drums back to you as 55 gallon drums, WITHOUT the overpacks. Also indicated is the change in weight due to the removal of water.

Please update the database as necessary.

Drum Number	Pounds Initial Weight	Final Weight
53836	532.0	523.8
53746	534.8	528.0
53783	556.0	548.4
53789	538.6	532.2
53204	531.8	529.4
53174	537.6	534.9
53851	554.8	552.1
53771	560.4	556.3
53715	547.2	543.1
54893	539.2	536.5
52054	833.6	813.2
52484	855.2	833.8
53847	527.0	519.4
53790	557.2	548.2
53734	821.0	815.6
53848	534.8	530.2
54002	804.8	798.6
53712	529.8	523.0
52187	862.6	844.2
53824	536.6	530.8
53772	561.6	545.8
53796	554.2	549.6
53722	554.0	545.8
53703	527.2	517.8
53714	531.8	529.4
53814	533.0	519.2
54894	537.4	535.6
53306	539.4	529.8
53842	540.4	528.0
53802	530.6	520.4

Los Alamos

NATIONAL LABORATORY

55763

Environmental Management
 Environmental Stewardship Program
 EM, J501
 Los Alamos, New Mexico 87545
 (505) 867-6838
 FAX (505) 866-8118

Date: October 2, 1996
 Refer to: EM/ES-96-253

Ms. Cynthia Longenbaugh
 Waste Management Division
 U.S. Department of Energy
 Albuquerque Operations Office
 P.O. Box 5400
 Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
 Environmental Stewardship Program Manager
 Los Alamos National Laboratory

Enclosure: w/s

TS:lma

**LAND DISPOSAL RESTRICTIONS
NOTIFICATION FORM**

A copy of this form must be attached to each Waste Profile Form and to each Uniform Hazardous Waste Manifest required to transport waste from LAN pursuant to 40 CFR 268.7(a)(1).

Waste Profile Form No. 4636	Chemical Waste Waste Disposal Record No. LA00000053703	Uniform Hazardous Waste Manifest No. 53703	Date of Waste Pickup 9/09/93
---------------------------------------	---	---	--

Check only one.

- Non-wastewater
 Wastewater (as defined in 40 CFR 268.2(f))

NOTIFICATION OF CALIFORNIA LIST APPLICABILITY

Check all that apply.

- Liquid hazardous waste containing PCBs at a concentration of ≥60 ppm.
 A D001 - D017 liquid waste containing ≥134 mg/l of nickel and/or ≥130 mg/L of thallium.
 A D001 - D011 waste containing Halogenated Organic Compounds (HOCs) listed in 40 CFR 268, Appendix III, at ≥1000 ppm.

NOTIFICATION OF "D" CHARACTERISTIC EPA WASTE CODES

Check all that apply.

EPA Waste Code Waste Description and/or Subcategory (as needed)

- D001 Ignitable characteristic wastes (except for the Section 261.21(a)(1) High TOC Subcategory) that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
- D001 High TOC Ignitable Characteristic Liquids Subcategory based on 40 CFR 261.21(a)(1) - Greater than 10% total organic carbon.
- D002 Corrosive Characteristic Wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
- D003 Reactive Sulfides Subcategory
- D003 Reactive Cyanides Subcategory
- D003 Water Reactive Subcategory
- D003 Other Reactives Subcategory (based on 261.23(a)(1))
- D004
- D005
- D006 Wastes that exhibit the TC for cadmium
- D006 Cadmium Containing Batteries Subcategory
- D007
- D008 Wastes that exhibit TC for lead
- D008 Lead Acid Batteries Subcategory
- D008 *D65* Radioactive Lead Solids Subcategory
- D009 *5/2/97* High Mercury-Organic Subcategory (≥250 mg/kg Hg with organics and not incinerator residues)
- D009 High Mercury-Inorganic Subcategory (≥250 mg/kg Hg (with inorganics))
- D009 Low Mercury Subcategory (<250 mg/kg Hg)
- D009 All D009 wastes
- D009 Elemental mercury contaminated with radioactive materials.
- D009 Hydraulic oil contaminated with Mercury Radioactive Materials Subcategory
- D010
- D011

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> D012 | <input type="checkbox"/> D020 | <input type="checkbox"/> D028 | <input type="checkbox"/> D036 |
| <input type="checkbox"/> D013 | <input type="checkbox"/> D021 | <input type="checkbox"/> D029 | <input type="checkbox"/> D037 |
| <input type="checkbox"/> D014 | <input type="checkbox"/> D022 | <input type="checkbox"/> D030 | <input type="checkbox"/> D038 |
| <input type="checkbox"/> D015 | <input type="checkbox"/> D023 | <input type="checkbox"/> D031 | <input type="checkbox"/> D039 |
| <input type="checkbox"/> D016 | <input type="checkbox"/> D024 | <input type="checkbox"/> D032 | <input type="checkbox"/> D040 |
| <input type="checkbox"/> D017 | <input type="checkbox"/> D025 | <input type="checkbox"/> D033 | <input type="checkbox"/> D041 |
| <input type="checkbox"/> D018 | <input type="checkbox"/> D026 | <input type="checkbox"/> D034 | <input type="checkbox"/> D042 |
| <input type="checkbox"/> D019 | <input type="checkbox"/> D027 | <input type="checkbox"/> D035 | <input type="checkbox"/> D043 |


*All applicable Underlying Hazardous Constituents in these characteristic wastes must be checked in Table UTS.



CONTAINER PROFILE
53703
T-MTRU-TEMP

WS ID: 28588
C ID: 761962
ACTIVE

GENERAL INFORMATION

Container ID:	761962	
Labeled ID:	53703	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28588	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 05-Aug-1993 12:00 am
Quantity (Univ):		Accum Start Date: 05-Aug-1993
Compactible:		Closed Date: 05-Aug-1993
Discard Matrix:		
TID(s):		
Gen Contact:		
Insert By:	WCATS APPLICATION (000000)	
Waste Desc:	(LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.	

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	581.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	63.00 lb
		Net Weight:	458.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000229: C039: L02: R09



CONTAINER PROFILE
53703
T-MTRU-TEMP

WS ID: 28588
 C ID: 761962
 ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____
Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	4119		0/0
Not Specified	NA	Carbon Composite	0	3297		0/0
Not Specified	NA	Carbon Composite	0	FS3141		0/0
Not Specified	NA	Carbon Composite	0	JF315		0/0

* Diffusivity is specified in moles per second per mole fraction



**CONTAINER PROFILE
53703
T-MTRU-TEMP**

**WS ID: 28588
C ID: 761962
ACTIVE**

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm ²	Beta/Gama dpm/100 cm ²
<i>Survey ID: 72476, Status: Active</i>							
B/G Survey			= 0.50	=	=	Not Applicable	
Neutron Survey			= 0.80	=	=	Not Applicable	
Smear Results			Not Applicable			= 1.10	= 8.00

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 336356, Date: 08/05/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	2.92E+000	g	0.00E+000	N				NONE
52	2.33E+001	g	0.00E+000	N				NONE
Am-241	1.00E+001	Ci	0.00E+000	Y			Y	
Pu-238	3.99E-002	Ci	0.00E+000	Y			Y	
Pu-239	1.36E+000	Ci	0.00E+000	Y			Y	
Pu-240	3.18E-001	Ci	0.00E+000	Y			Y	
Pu-241	4.82E+000	Ci	0.00E+000	Y			Y	
Pu-242	1.84E-005	Ci	0.00E+000	Y			Y	
U-234	2.90E-006	Ci	0.00E+000	Y			Y	
U-235	5.04E-008	Ci	0.00E+000	Y			Y	

53712



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code <i>Nml-25-446</i>	Inspected Items		
Year of Manufacture <i>1913</i>	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number <i>N/A</i>	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	Printed Name <i>Steven Grigo</i>	Date <i>7/27/93</i>	
	Signature <i>Steven Grigo</i>		

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE Group <i>NMT-2</i>	Technical Area <i>TA-55</i>	Building <i>PF4</i>	Program Code <i>K567</i>
Additional Information <i>55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM</i>			
<i>TID #1320098</i>			
CODE	CONTAINER	INTERNAL SHIELDING	RADIONUCLIDE CONTENT
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None	Nuclide Amount +/- Uncertainty +/- C-Curie M-Gram
02	<input type="checkbox"/> Standard Waste Box	Type Thickness (in.)	<i>Pu-239 4.1816 E+11</i>
03	<input checked="" type="checkbox"/> Other (Call TWOD)	<i>LEAD 6.3 E-12</i>	<i>Am-241 1.2181 E+11</i>
04	<input type="checkbox"/> RH Container		
Waste Profile Request Number <i>04636</i>			
Carbon Filter ID <i>01AA 411414 02 2A117414</i>			
Process Batch Code <i>N/A</i>			
Gross Weight (lb.) <i>16.417 E+12</i>		NONRADIOACTIVE HAZARDOUS MATERIALS	
Organic Material Wt. (lb.) <i>8.915 E+10</i>		Name	EPA Code Quantity (g)
Organic Material Volume (L) <i>110</i>		<i>LEAD SHIELDING</i>	<i>D008 3.8 E+14</i>
TRUCON Code <i>111A1A</i>		<i>CADMIUM</i>	<i>D006 2.3 E+10</i>
Date Closed (MDDYY) <i>07/29/93 02 11 818</i>		<i>CHROMIUM</i>	<i>D007 8.7 E+10</i>
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. The data are correct and complete to the best of my knowledge.			
Printed Name <i>Kathleen M. Gruetzmacher</i>		Signature <i>KM Gruetzmacher</i>	Date <i>8/5/93</i>

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) <i>2.4 E+0</i>	Survey Meter Model <i>RO-3C</i>	Property Number <i>2646</i>
Neutron Dose Rate (mrem/h) <i>6.0 E-1</i>	Survey Meter Model <i>PNR-4</i>	Property Number <i>4909</i>
Total Dose Rate (mrem/h) <i>2.4 E+0</i>	The data in this section were collected according to approved procedures.	
Alpha Contamination (dpm/100cm ²) <i>0.0 E+0</i>	Printed Name <i>ROBERT J COX</i>	Date <i>8/4/93</i>
Beta-Gamma Cont. (dpm/100cm ²) <i>0.8 E+0</i>	Signature <i>Robert J Cox</i>	

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA-54 by AR 163. <i>016 8/12/93</i>	Printed Name <i>R.G. Britton</i>	Date <i>8-6-93</i>
	Signature <i>R.G. Britton</i>	

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	08/13/93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	09/01/93	Printed Name	HARRI WILDER	Signature	HARRI WILDER

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name	GENE E LOPEZ	Signature	Gene E. Lopez	Date	8/23/93
--------------	--------------	-----------	---------------	------	---------

9-1-93 CY
9-1-93 KW

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	17.0 E - 1	Survey Meter Model	R03C	Property Number	2605
Neutron Dose Rate (mrem/h)	0.0 E + 0	Survey Meter Model	PNR4	Property Number	5229
Total Dose Rate (mrem/h)	17.0 E - 1	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	1.2 E - 0	Printed Name	J.T. Miller	Date	8-27-93
Beta Gamma Cont (dpm/100cm ²)	3.9 E - 0	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	RM	Date Received	8-25-93	ORIGINAL STORAGE DATA					
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Pad Number	153	Layer	2	Flow Number	7
				Column Number	15	Date Stacked (MM,DD,YY)	08/30/93		
Printed Name	Rick Martinez	Date	8-25-93	Printed Name	Charlotte Fernandez	Date	9/18/93		
Signature	Rick Martinez			Signature	Charlotte Fernandez				

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.			Printed Name	BRUCE LE BRUN	Date	9/13/93
			Signature	Bruce Le Brun		

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	09/13/93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	09/13/93	Printed Name	HARRI WILDER	Signature	HARRI WILDER

12. DUPLICATE COPY

M M D D Y Y

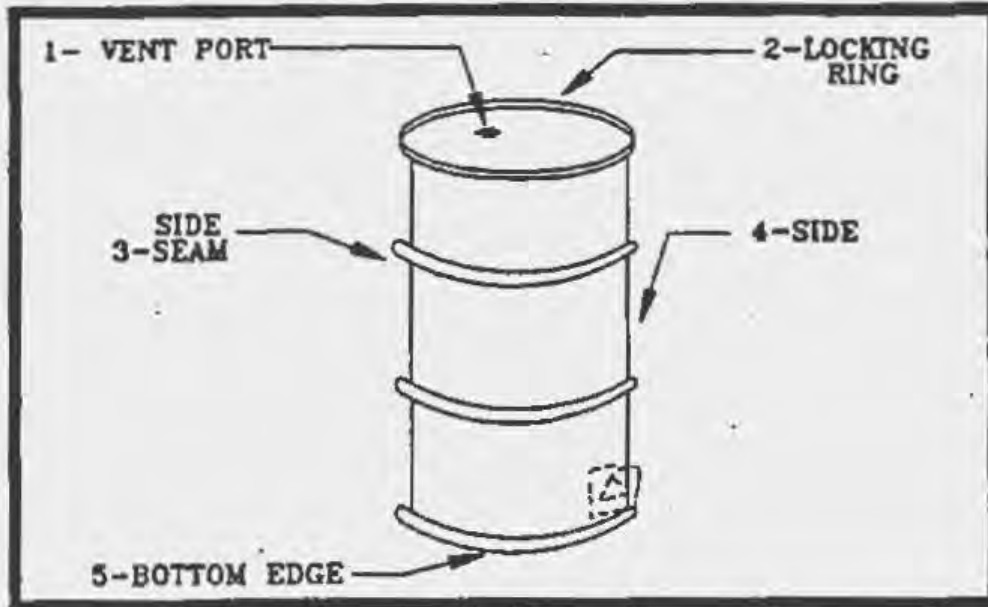
Date Duplicate Filed	11/19/93	Printed Name	Berice Sandoval	Signature	Berice Sandoval
----------------------	----------	--------------	-----------------	-----------	-----------------

TRU CONTAINER SMEAR SURVEY DATA SHEET

MAILED

AUG 04 1993

TA 3 BUILDING 29 SAMPLE DATE 7-29-93
 RPT R-COX CONTAINER NO. LA00000053712 **C**



△ Maximum Gamma Dose Rate 2.1 mR/hr.
 □ Maximum Neutron Dose Rate .6 mRem/hr.

SMEAR NO.	LOCATION	*ALPHA	*BETA-GAMMA
1	VENT PORT	NDA	NDA
2	LOCKING RING		
3	SIDE SEAM		
4	SIDE		
5	BOTTOM EDGE		

*dpm/100cm. sq.

GAMMA INSTRUMENT

Model: RO-3C
 P/N: 2646
 CDD: 9-16-93

NEUTRON INSTRUMENT

Model: EST. PNR-4
 P/N: 80064909
 CDD: 9-22-93

DISTRIBUTION:

1. RPT's TA-54 MS J592
2. RCT's TA-3 CMR MS G749
3. _____

ANALYZED BY: David A. Barnes *Facy Lumbly*
 DATE: 8/3/93

Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545



LA00000053712

WASTE STORAGE RECORD

WASTE PACKAGE SERIAL NUMBER

LA 8 8 01 0050 5817

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	ADDITIONAL INFORMATION
Group <u>145T-12</u>	<u>TID# H01880</u>
TA <u>55</u>	<u>Fixed Alpha-NDA</u>
Building <u>PF-4</u>	<u>HUD139-3533</u>
Program Code	

CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT		C - Curie B - Bq	
				Nuclide	Amount		
01	<input checked="" type="checkbox"/> Steel Drum (55 gal)	Type	Thickness (in.)	P, U, S, T	4.18E+01	E	+1
02	<input type="checkbox"/> Steel Overpack (Drum)						
03	<input type="checkbox"/> Steel Box (68 in. X 54 in. X 38.5 in.)						
04	<input type="checkbox"/> Steel Overpack (FRP Box)						
	<input type="checkbox"/> Other (Describe)	<input checked="" type="checkbox"/> Lead	<u>6.3E+02</u>				
		<input type="checkbox"/> Steel					
		<input type="checkbox"/> Concrete					
		<input type="checkbox"/> Other					

Drum Lot Code <u>B1</u>	Year of Mfg. <u>87</u>	HAZARDOUS MATERIALS	
Manufacturer's Box Serial Number		Name	EPA Code
Process Batch Code <u>N/A</u>		<u>Lead</u>	<u>P, U, S, T</u>
Gross Wt. (lb.) <u>5.819E+01</u>		Quantity (g)	
Organic Mat'l Wt. (lb.) <u>3.915E+00</u>	<u>Lead</u>		<u>3.81E+04</u>
Organic Mat'l Vol. (%) <u>0</u>			
Content Code <u>10.0.6</u>			
Date Closed (MMDDYY) <u>10.21.11.88</u>			

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name <u>Choster A. Smith</u>	Signature <u>[Signature]</u>	Date <u>12-11-88</u>
--------------------------------------	------------------------------	----------------------

II. GENERATOR—SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) <u>1.0E+00</u>	Survey Meter Model <u>RC-3C</u>	Property No. <u>002614</u>
Neutron Dose Rate (mrem/h) <u>0.6E+00</u>	Survey Meter Model <u>PWR-4</u>	Property No. <u>004913</u>
Total Dose Rate (mrem/h) <u>1.6E+00</u>		
Alpha Contamination (dpm/100cm ²) <u>1.0E+00</u>	The data in this section were collected as prescribed in approved procedures.	
Beta-Gamma Cont. (dpm/100cm ²) <u>2.4E+02</u>	The package is safe to handle and transport.	
Printed Name <u>JERILYN MOSSO</u>	Signature <u>[Signature]</u>	Date <u>2/16/88</u>

III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-5.	Printed Name <u>BRUCE T. REICH</u>	Date <u>02/22/88</u>
	Signature <u>[Signature]</u>	

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) <u>13.9E+00</u>	Survey Meter Model <u>RC-3C</u>	Property No. <u>2610</u>
Neutron Dose Rate (mrem/h) <u>1.0E+01</u>	Survey Meter Model <u>PWR-4</u>	Property No. <u>4905</u>
Total Dose Rate (mrem/h) <u>3.1E+01</u>		
Alpha Contamination (dpm/100cm ²) <u>1.3E+01</u>	The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.	
Beta-Gamma Cont. (dpm/100cm ²) <u>1.0E+01</u>		
Printed Name <u>Blaine Corbin</u>	Signature <u>[Signature]</u>	Date <u>2/15/88</u>

V. STORAGE SITE INFORMATION

Received by <u>KDC</u>	Date received <u>3-1-88</u>	Pad No. <u>MD-33</u>	Layer <u>4</u>	<input type="checkbox"/> E <input type="checkbox"/> B <input type="checkbox"/> W
This package was visually inspected and found to be properly labeled and in good condition. It was accepted according to approved procedures.		Post No. <u>1001</u>	Date Stacked <u>3-15-88</u>	
This waste package was stored at this location according to approved procedures.				
Printed Name <u>Eugene Sabaga</u>	Date <u>3-14-88</u>	Printed Name <u>RUSILA E. GARCIA</u>	Date <u>3-15-88</u>	
Signature <u>[Signature]</u>		Signature <u>[Signature]</u>		

DISCHARGE WASTE LOG SHEET

Effective Date 10/19/87

Page 7 of 1 Pages

LA88010050587

WASTE NUMBER SERIAL NUMBER

Proc. N-Comb Comb Pu-238

Verit Clip or Carbon Filter installed DM installer's INITIALS

Least Liner

1/2 Inch Drum Liner

1/2 Inch Drum Liner

CONTAINER: open In-Line

Tamper Indicating Seal # 104880

Date Sealed 02-11-88

Waste Code: U/A

ITEM NO.	ITEM ID	FROM WH/BOX	PKG WT Kg	MATRIX (MATERIAL)	MERS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONNEL	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy
										ORGANICS V%	HAZARDOUS MATERIALS	OTHER REMARKS		
1	IRR25EF1B	434 6467	120.70	EV Filtrate	R00	28.78	52	6.0	Smith				4/17	02/09/88
1	PLSME586R	420 6440	1.93	Plastic unbedded	602	3.87	52	6.8	Smith	1.90	1.93		1/17	02/09/88
2	ILR28EF1A	434 6467	49.05	EV Filtrate	R00	9.19	52	6.0	Smith				4/17	02/11/88
3	IRR25EF1B	434 6467		EV Filtrate	R00	10.44	44	99.9	Smith				3/10	02/09/88
4	ILR28EF1A	434 6467		EV Filtrate	R00	2.37	44	99.9	Smith				3/10	02/11/88
5													1	1 1
6													1	1 1
7													1	1 1
8													1	1 1
9										2.2	2.13	Packaging	1	1 1
TOTALS			171.68	MST-12 signatures for Gross Weight		41.86	52			4.1	2.06	Haz. Mat. - Kg		
x 2.2046 = Pkg Wt Lbs			378.49	MST-12 signatures for Accountability		12.81	44			9.5	4.19	MST-10 Assay Value		NA
Scale (NIST) Wt. Pounds			528.91							QA Data Pkg. Approval		Instrument ID.		
SI gal. (NIST) Pounds			150.42							E.D. to name 10/16/87		MST-10 Signature <u>Ronald W. Blankenship</u>		

★ 05-2-231/0239A

2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

WASTE PROFILE

TRU 006

LA53712#



LA53712

EM-8 USE ONLY
Reference Number
C4636

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490

Division/Group NMT / NMT-2	Telephone 7-1193	Mail Stop E501	Technical Area 55	Building PF-114	Room 206
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Method of Characterization

Knowledge of Process (KOP) - OR - Chemical/Physical Analysis (specify below)

MSDS attached (optional) Request for analysis Analysis attached

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Nonsalvageable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgic	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)

TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 138°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

<p>Waste Origination</p> <p>A. Is this waste generated in a radiation controlled area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.</p>	<p>Radioactivity</p> <p><input type="checkbox"/> Nonradioactive <input type="checkbox"/> Suspect <input checked="" type="checkbox"/> Radioactive</p> <table border="0"> <tr> <td>Activity Measure</td> <td>Radiation Type</td> <td>Half-life</td> </tr> <tr> <td><input type="checkbox"/> ≤ 2.0 nC/g</td> <td><input checked="" type="checkbox"/> alpha</td> <td><input type="checkbox"/> t^{1/2} < 20 yr</td> </tr> <tr> <td><input type="checkbox"/> > 2.0 nC/g</td> <td><input checked="" type="checkbox"/> beta</td> <td><input checked="" type="checkbox"/> t^{1/2} ≥ 20 yr</td> </tr> <tr> <td><input type="checkbox"/> > 10.0 nC/g</td> <td><input checked="" type="checkbox"/> gamma</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> > 100 nC/g</td> <td><input type="checkbox"/> tritium</td> <td></td> </tr> </table>			Activity Measure	Radiation Type	Half-life	<input type="checkbox"/> ≤ 2.0 nC/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> t ^{1/2} < 20 yr	<input type="checkbox"/> > 2.0 nC/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> t ^{1/2} ≥ 20 yr	<input type="checkbox"/> > 10.0 nC/g	<input checked="" type="checkbox"/> gamma		<input checked="" type="checkbox"/> > 100 nC/g	<input type="checkbox"/> tritium	
	Activity Measure	Radiation Type	Half-life															
	<input type="checkbox"/> ≤ 2.0 nC/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> t ^{1/2} < 20 yr															
<input type="checkbox"/> > 2.0 nC/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> t ^{1/2} ≥ 20 yr																
<input type="checkbox"/> > 10.0 nC/g	<input checked="" type="checkbox"/> gamma																	
<input checked="" type="checkbox"/> > 100 nC/g	<input type="checkbox"/> tritium																	

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) Schueler, William T.	Z Number 106374	Signature <i>William Schueler</i>	Date 10/14/92
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If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). →

Name (last, first, middle)	Mail Stop
----------------------------	-----------

Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-6010A
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-602060A
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-6010A
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 8.0 ppm	<input type="checkbox"/> ≥ 8.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
cresol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.00 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

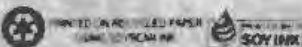
Waste Classification

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Non-RCRA waste | <input type="checkbox"/> RCRA-regulated solid waste | <input checked="" type="checkbox"/> RCRA-regulated hazardous waste | <input type="checkbox"/> Radioactive only |
| <input type="checkbox"/> PCB | <input type="checkbox"/> municipal refuse | <input type="checkbox"/> hazardous waste | <input type="checkbox"/> low-level waste |
| <input type="checkbox"/> non-PCB TSCA waste | <input type="checkbox"/> nonhazardous chemical waste | <input type="checkbox"/> mixed low-level waste | <input type="checkbox"/> transuranic waste |
| <input type="checkbox"/> asbestos | <input type="checkbox"/> administratively controlled waste | <input checked="" type="checkbox"/> mixed transuranic waste | |
| | <input type="checkbox"/> sanitary/industrial sludges | | |

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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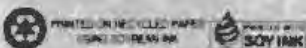
EM-8 Reviewer's Signature <i>Flagman</i>	Date 10/14/92	Cost Center/Program Code for Analysis	Reference Number 04636
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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NM0890010515		Manifest Document No. 53712		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.							
3. Generator's Name and Mailing Address Los Alamos National Laboratory TA54 AREA G MS Los Alamos NM 87545						A. State Manifest Document Number									
4. Generator's Phone (505) 66-						B. State Generator's ID									
5. Transporter 1 Company Name LANL			6. US EPA ID Number			C. State Transporter's ID									
7. Transporter 2 Company Name			8. US EPA ID Number			D. Transporter's Phone									
9. Designated Facility Name and Site Address Los Alamos National Laboratory RONALD G SALAZAR TA50 BLDG. 69 Los Alamos, NM 87545			10. US EPA ID Number			E. State Transporter's ID									
						F. Transporter's Phone									
						G. State Facility's ID									
						H. Facility's Phone 505 66-									
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.			
						No.		Type							
a. <input checked="" type="checkbox"/> HQ, RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918, HIGHWAY ROUTE CONTROLLED QUANTITY Solid, Elemental, AM44, PU52,						1		647		P					
b. 5.563e+01Ci, T.I.=0.0 RADIOACTIVE YELLOW III, Am241, Pu238, Pu239, Pu240, Pu241, Pu242															
c.															
d.															
J. Additional Descriptions for Materials Listed Above 11a. D008, D007, D006						DISCREPANCY 7/1/96 y.w		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		K. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information *EMERGENCY PHONE NO: (505) 667-6211* Radioactive 11a. ERGNO: 165 Highway Route controlled quantity placards Road Closure Required TWSR#: 53712 HMTE#: 15464															
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this commitment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.															
Printed/Typed Name DAVIS Christensen			Signature <i>Davis Christensen</i>			Month Day Year 10/11/96									
17. Transporter 1 Acknowledgement of Receipt of Materials															
Printed/Typed Name VALDEZ ALVIN			Signature <i>Alvin Valdez</i>			Month Day Year 10/23/96									
18. Transporter 2 Acknowledgement of Receipt of Materials															
Printed/Typed Name			Signature			Month Day Year									
19. Discrepancy Indication Space															
20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.															
Printed/Typed Name Ron Salazar			Signature <i>Ron Salazar</i>			Month Day Year 10/23/96									



ORIGINAL-RETURN TO GENERATOR

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address				A. State Manifest Document Number						
				B. State Generator's ID						
4. Generator's Phone ()				C. State Transporter's ID						
5. Transporter 1 Company Name		6. US EPA ID Number		D. Transporter's Phone						
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID						
9. Designated Facility Name and Site Address		10. US EPA ID Number		F. Transporter's Phone						
				G. State Facility's ID						
				H. Facility's Phone						
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
						No.	Type			
a. <i>100% RADIOACTIVE MATERIAL, FISSILE, N D.S. 17, UN2918, HIGHWAY ROUTE CONTROLLED QUANTITY 90414 21-0001, 30241, PU238, PU239, PU240, PU241, PU242, 5.563e+0101, T, 1, -0.0 RADIOACTIVE YELLOW 302</i>						1	IM	523	1	
b.										
c.										
d.										
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information										
<p>*EMERGENCY PHONE NO. (503) 967-6211</p> <p>116 23000 (65.0) 116 23000 (65.0) 116 23000 (65.0)</p>										
<p>16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.</p> <p>If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.</p>										
Printed/Typed Name				Signature				Month Day Year		
<i>Donald C. Salazar</i>				<i>Donald C. Salazar</i>				11/13/96		
17. Transporter 1 Acknowledgement of Receipt of Materials										
Printed/Typed Name				Signature				Month Day Year		
<i>Don Valdez</i>				<i>Don Valdez</i>				11/13/96		
18. Transporter 2 Acknowledgement of Receipt of Materials										
Printed/Typed Name				Signature				Month Day Year		
19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										
Printed/Typed Name				Signature				Month Day Year		
<i>Rick Martinez</i>				<i>Rick Martinez</i>				11/13/96		



DRUM SURVEY SHEET

TA - 50-69, WCRRF

LOCATION

ROOM: 102
 103
 104
 50-193

BUILDING _____
 OTHER _____

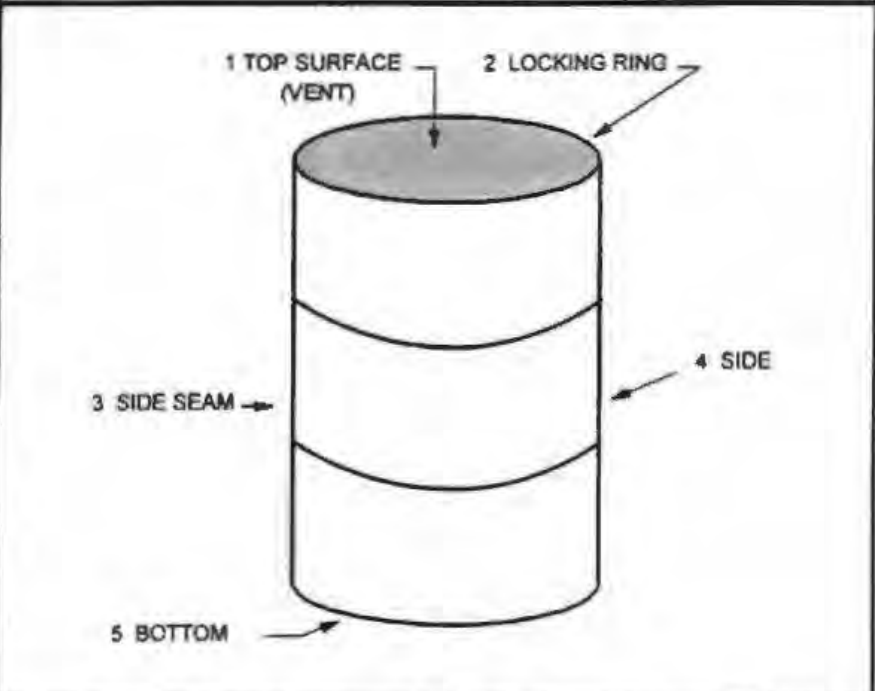
CONTAINER NUMBER: 53712

DRUM SURVEY DATE: 8, 22, 96

SURVEYED BY: K. Andy
 (Signature)

RCT: Salazar
 Ault

Other: _____



GAMMA INSTRUMENT

MODEL: RO-2
 RO-3C

(OTHER) _____

P/N: 002661

CAL DUE DATE: 2/13/97

MAXIMUM GAMMA DOSE RATE
 Δ contact 1.0 mR/hr
 meter 0 mR/hr

NEUTRON INSTRUMENT

MODEL: ESP-2/NRD
 PNR-4

(OTHER) _____

P/N: 008031

CAL DUE DATE: 1/29/97

MAXIMUM NEUTRON DOSE RATE
 \square contact 0.2 mRem/hr
 meter 0 mR/hr

SMEAR	LOCATION	ALPHA*	BETA*
1	TOP SURFACE	0.000	0.353
2	LOCKING RING	4.95	2.27
3	SIDE SEAM	1.36	0.000
4	SIDE	2.71	0.000
5	BOTTOM	0.000	1.24

ALPHA / BETA INSTRUMENT
 BERTHOLD LB770, P/N 844236

DISTRIBUTION:

1. RCT's TA-50 MS E516
 2. _____
 3. _____

APPROVED
 Bobby Gonzales

DATE: / /

Stan Bodenstein, CS, 02:15 PM 9/9/96 -, Dewatered Drum Shipment to TA-

Return-Path: <bodenstein@lanl.gov>
X-Sender: sab@wm0.lanl.gov
Date: Mon, 09 Sep 1996 14:15:16 -0600
To: aic@lanl.gov
From: bodenstein@lanl.gov (Stan Bodenstein, CST-7, 5-8462)
Subject: Dewatered Drum Shipment to TA-54
Cc: Triay@lanl.gov, jrh@lanl.gov, shelmick@lanl.gov, grand@lanl.gov,
dvc@lanl.gov, aic@lanl.gov, rickmar@lanl.gov, jbalkey@lanl.gov,
ronwieneke@lanl.gov, kgruetzmacher@lanl.gov, andym@lanl.gov,
gveazey@lanl.gov, dpt@lanl.gov

I-Li,

We received the following drums from you as OVERPACKED 55 gallon drums. We dewatered each of the drums at the WCRRF.

Since each of the drums was in very good condition, we will be shipping the following list of drums back to you as 55 gallon drums, WITHOUT the overpacks. Also indicated is the change in weight due to the removal of water.

Please update the database as necessary.

Drum Number	Pounds	
	Initial Weight	Final Weight
53836	532.0	523.8
53746	534.8	528.0
53783	556.0	548.4
53789	538.6	532.2
53204	531.8	529.4
53174	537.6	534.9
53851	554.8	552.1
53771	560.4	556.3
53715	547.2	543.1
54893	539.2	536.5
52054	833.6	813.2
52484	855.2	833.8
53847	527.0	519.4
53790	557.2	548.2
53734	821.0	815.6
53848	534.8	530.2
54002	804.8	798.6
53712	529.8	523.0
52187	862.6	844.2
53824	536.6	530.8
53772	561.6	545.8
53796	554.2	549.6
53722	554.0	545.8
53703	527.2	517.8
53714	531.8	529.4
53814	533.0	519.2
54894	537.4	535.6
53306	539.4	529.8
53842	540.4	528.0
53802	530.6	520.4

Printed for "I-Li Chen ,CST-14 , 5-6422" <aic@lanl.gov>

Los Alamos

NATIONAL LABORATORY

53-112

Environmental Management
Environmental Stewardship Program
EM, J501
Los Alamos, New Mexico 87545
(505) 867-6839
FAX (505) 865-8118

Date: October 2, 1996
File # : EM/ES-96-253

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

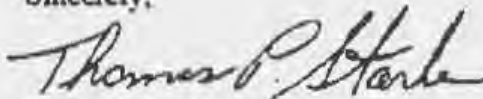
SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: a/s

TS:lma

**LAND DISPOSAL RESTRICTIONS
NOTIFICATION FORM**

A copy of this form must be attached to each Waste Profile Form and to each Uniform Hazardous Waste Manifest required to transport waste within LAN pursuant to 40 CFR 268.7(a)(1).

Waste Profile Form No. 4636	Chemical Waste Waste Disposal Record No. LAC0001053712	Uniform Hazardous Waste Manifest No. 53712	Date of Waste Pickup 8/25/93
---------------------------------------	---	---	--

Check only one.

- Non-wastewater
- Wastewater (as defined in 40 CFR 268.2(f))

NOTIFICATION OF CALIFORNIA LIST APPLICABILITY

Check all that apply.

- Liquid hazardous waste containing PCBs at a concentration of 250 ppm.
- A D001 - D017 liquid waste containing 2134 mg/l of nickel and/or 2130 mg/L of thallium.
- A D001 - D011 waste containing Halogenated Organic Compounds (HOCs) listed in 40 CFR 268, Appendix III, at 21000 ppm.

NOTIFICATION OF "D" CHARACTERISTIC EPA WASTE CODES

Check all that apply.

EPA Waste Code Waste Description and/or Subcategory (as needed)

- D001 Ignitable characteristic wastes (except for the Section 281.21(a)(1) High TOC Subcategory) that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
- D001 High TOC Ignitable Characteristic Liquids Subcategory based on 40 CFR 281.21(a)(1) - Greater than 10% total organic carbon.
- D002 Corrosive Characteristic Wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
- D003 Reactive Sulfides Subcategory
- D003 Reactive Cyanides Subcategory
- D003 Water Reactive Subcategory
- D003 Other Reactives Subcategory (based on 281.23(a)(1))
- D004
- D006
- D006 Wastes that exhibit the TC for cadmium
- D006 Cadmium Containing Solids Subcategory
- D007
- D008 Wastes that exhibit TC for lead
- D008 Lead Acid Batteries Subcategory
- D009 ^{D65} ^{8/2/93} Radioactive Lead Solids Subcategory
- D009 High Mercury-Organic Subcategory (≥250 mg/kg Hg with organics and not inorganic residues)
- D009 High Mercury-Inorganic Subcategory (≥250 mg/kg Hg [with inorganics])
- D009 Low Mercury Subcategory (<250 mg/kg Hg)
- D009 All D008 wastewaters
- D009 Elemental mercury contaminated with radioactive materials.
- D009 Hydraulic oil contaminated with Mercury Radioactive Materials Subcategory
- D010
- D011

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> D012 | <input type="checkbox"/> D020 | <input type="checkbox"/> D028 | <input type="checkbox"/> D036 |
| <input type="checkbox"/> D013 | <input type="checkbox"/> D021 | <input type="checkbox"/> D029 | <input type="checkbox"/> D037 |
| <input type="checkbox"/> D014 | <input type="checkbox"/> D022 | <input type="checkbox"/> D030 | <input type="checkbox"/> D038 |
| <input type="checkbox"/> D015 | <input type="checkbox"/> D023 | <input type="checkbox"/> D031 | <input type="checkbox"/> D039 |
| <input type="checkbox"/> D016 | <input type="checkbox"/> D024 | <input type="checkbox"/> D032 | <input type="checkbox"/> D040 |
| <input type="checkbox"/> D017 | <input type="checkbox"/> D025 | <input type="checkbox"/> D033 | <input type="checkbox"/> D041 |
| <input type="checkbox"/> D018 | <input type="checkbox"/> D026 | <input type="checkbox"/> D034 | <input type="checkbox"/> D042 |
| <input type="checkbox"/> D019 | <input type="checkbox"/> D027 | <input type="checkbox"/> D035 | <input type="checkbox"/> D043 |

* All appropriate Underlying Hazardous Constituents in these characteristic wastes must be checked in Table UTS.




CONTAINER PROFILE

53712

T-MTRU-TEMP

WS ID: 28588
C ID: 762057
ACTIVE

GENERAL INFORMATION

Container ID:	762057	
Labeled ID:	53712	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28588	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 29-Jul-1993 12:00 am
Quantity (Univ):		Accum Start Date: 29-Jul-1993
Compactible:		Closed Date: 29-Jul-1993
Discard Matrix:		
TID(s):		
Gen Contact:		
Insert By:	WCATS APPLICATION (000000)	
Waste Desc:	(LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.	

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	586.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	63.00 lb
		Net Weight:	463.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000153: C007: L01: R03



CONTAINER PROFILE
53712
T-MTRU-TEMP

WS ID: 28588
C ID: 762057
ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____
Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
----	K567	----	----	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	4144		0/0
Not Specified	NA	Carbon Composite	0	1744		0/0
Not Specified	NA	Carbon Composite	0	FS753		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53712
T-MTRU-TEMP

WS ID: 28588
 C ID: 762057
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm ²	Beta/Gama dpm/100 cm ²
<i>Survey ID: 72610, Status: Active</i>							
B/G Survey			= 0.70	=	=	Not Applicable	
Neutron Survey			= 0.00	=	=	Not Applicable	
Smear Results			Not Applicable			= 1.20	= 3.90

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 336531, Date: 07/29/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	1.28E+001	g	0.00E+000	N				NONE
52	4.19E+001	g	0.00E+000	N				NONE
Am-241	4.40E+001	Ci	0.00E+000	Y			Y	
Pu-238	7.17E-002	Ci	0.00E+000	Y			Y	
Pu-239	2.44E+000	Ci	0.00E+000	Y			Y	
Pu-240	5.70E-001	Ci	0.00E+000	Y			Y	
Pu-241	8.66E+000	Ci	0.00E+000	Y			Y	
Pu-242	3.30E-005	Ci	0.00E+000	Y			Y	
U-234	5.21E-006	Ci	0.00E+000	Y			Y	
U-235	9.05E-008	Ci	0.00E+000	Y			Y	

53715



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code	NmL0233AAG	Inspected Items		
Year of Manufacture	1913	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number	N/A	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.		Printed Name	Steven Griego	Date
		Signature	Steven Griego	7/21/93

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	Group	Technical Area	Building	Program Code		
	NMT-2	TA-55	PF4	K567		
Additional Information: 55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM						
TID # B20088						
CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT		
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None		Nuclide	Amount ±	Uncertainty ±
02	<input type="checkbox"/> Standard Waste Box	Type	Thickness (in.)	Pu152	2.753 E +11	E
03	<input checked="" type="checkbox"/> Other (Call TWOO)	LEAD	6.3 E -12	Pu156	2.851 E +11	E
04	<input type="checkbox"/> RH Canister			Am141	4.611 E +10	E
Waste Profile Request Number		04795 04636 ²⁶⁰				
Carbon Filter ID		01 LA141 02 6A1419716				
Process Batch Code		N/A				
Gross Weight (lb.)		16.619 E +10		NONRADIOACTIVE HAZARDOUS MATERIALS		
Organic Material Wt. (lb.)		19.619 E +10		Name	EPA Code	Quantity (g)
Organic Material Volume (lit.)		10		LEAD SHIELDING	D008	3.8 E +14
TRUCOH Code		11141A		CADMIUM	D006	2.2 E +10
Date Closed (MMDDYY)		07/29/93 0825817		CHROMIUM	D007	2.5 E +10
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. The data are correct and complete to the best of my knowledge.				LEAD	D008	1.2 E +11
Printed Name		Kathleen M. Gruetzmacher		Signature	KM Gruetzmacher	Date
						8/5/93

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	1.4 E +10	Survey Meter Model	RO-3C	Property Number	2646
Neutron Dose Rate (mrem/h)	6.0 E -1	Survey Meter Model	PNR-4	Property Number	4909
Total Dose Rate (mrem/h)	2.0 E +10	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	0.0 E +10	Printed Name	RJ Cox	Date	8/4/93
Beta Gamma Cont. (dpm/100cm ²)	0.8 E +10	Signature	RJ Cox		

4. EMPLOYEE REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by the generator and is authorized for transportation to the waste storage area.		Printed Name	R.G. Britton	Date	8-6-93
		Signature	R.G. Britton		

BRUCE LE BRUN
Bruce Le Brun
7/19/93

King King King

269 3/1/93

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	018 113 93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	09 01 93	Printed Name	Harri Winder	Signature	Harri Winder

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name	GENE E. LOPEZ	Signature	Gene E. Lopez	Date	8/23/93
--------------	---------------	-----------	---------------	------	---------

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	4.0 E - 1	Survey Meter Model	R03C	Property Number	2605
Neutron Dose Rate (mrem/h)	2.0 E - 1	Survey Meter Model	PNR4	Property Number	5229
Total Dose Rate (mrem/h)	16.0 E - 1	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	19.1 E 10 1	Printed Name	J.T. Miller	Date	8-27-93
Beta Gamma Cont. (dpm/100cm ²)	17.4 E 10 0	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Am	Date Received	8-25-93	ORIGINAL STORAGE DATA					
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Ped Number	153	Layer	2	Row Number	8
				Column Number	7	Date Stacked (MM,DD,YY)	0831093		
Printed Name	Rick Martinez	Date	8-25-93	Printed Name	Charlotte Fernandez	Date	9/18/93		
Signature	Rick Martinez			Signature	Charlotte Fernandez				

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.			Printed Name	BRUCE LE BRUN	Date	9/13/93
			Signature	Bruce L Brun		

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	09 113 93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	09 13 93	Printed Name	HARRI WINDER	Signature	Harri Winder

12. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	11 19 93	Printed Name	Patricia Sandoval	Signature	Patricia Sandoval
----------------------	--------------	--------------	-------------------	-----------	-------------------

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

CERTIFIED WASTE STORAGE RECORD



WASTE PACKAGE SERIAL NUMBER					
LA	0	10	10	05	0534

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE		ADDITIONAL INFORMATION		TID# A04360	
Group	MST-12	0.5 mrem/hr Neutron			
TA	54	0.5 mrem/hr α			
Building	PF-4				
Room	401			TRU CERTIFIABLE	
CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT	
		Type	Thickness (in.)	Nuclide	Amount
01	<input checked="" type="checkbox"/> Steel Drum (55 gal.)				
02	<input type="checkbox"/> Steel Overpack (Drums)				
03	<input type="checkbox"/> Steel Box (68 in. X 54 in. X 38.5 in.)				
04	<input type="checkbox"/> Steel Overpack (FRP Box)				
	<input type="checkbox"/> Other (Describe)				
Drum Lot Code	10	Year of Mfr	86		
Manufacturer's Box Serial Number					
Process Batch Code					
Gross Wt. (lb)	15.51	Net Wt. (lb)	1.12		
Organic Mat. Wt. (lb)	14.19	Organic Mat. Vol. (%)	10		
Content Code					
Date Closed (MMDDYY)	08/25/87				

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name	Signature	Date
Chester A. Smith Sr	<i>Chester A. Smith Sr</i>	09-01-87

II. GENERATOR-SITE HEALTH PHYSICS INFORMATION

Surface Dose Rate (mrem/h)	1.00E+0	The data in this section were collected as prescribed in approved procedures. The package is properly closed and is safe to handle and transport.		
Survey Meter Model	134 R03C PNR4			
Survey Meter Serial No.	003612 002656 004911			
Alpha Contamination (dpm/100cm ²)	0.9E+0	Printed Name	Signature	Date
Beta-Gamma Cont. (dpm/100cm ²)	1.0E+0	Floyd C. Smith	<i>Floyd C. Smith</i>	9/4/87

III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per ARI 10-2.

Printed Name	Signature	Date
ARTHUR CATHRIE	<i>Arthur Cathrie</i>	87/12/7

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Surface Dose Rate (mrem/h)	1.20E+0	The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.		
Survey Meter Model	PNR-4 MC-6A			
Survey Meter Serial No.	005230 003060			
Alpha Contamination (dpm/100cm ²)	1.7E+1	Printed Name	Signature	Date
Beta-Gamma Cont. (dpm/100cm ²)	1.0E+0	Glean Cochran	<i>Glean Cochran</i>	1/15/88

V. STORAGE SITE INFORMATION

This package was visually inspected when received and was found to be properly labeled and in good condition. It was accepted according to approved procedures.

Printed Name	Signature	Date	Printed Name	Signature	Date
EUGENIA C. SALAZAR	<i>Eugenia C. Salazar</i>	1-12-88	ROSILA F. GARCIA	<i>Rosila F. Garcia</i>	1-27-88

Form Number HS 10-20 (2/86)

2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

DISCARDABLE WASTE LOG SHEET

Effective Date 05/08/87

LA87010050534
WASTE PACKAGE SERIAL NUMBER

Page 1 of Page 1

Proc. N-Comb Comb Pu-238

Lead Lined
90 Mil Drum Liner
1/8 Inch Drum Liner

CONTAINER:
open In-Line

Tamper Indicating Seal # A04360

Date Sealed 08/25/87

Waste Code: U/A

ITEM NO	ITEM ID	FROM RM or BOX	PKG WT Kg	MATRIX (MATERIAL)	MERS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONNEL SIGNATURE	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy	
										ORGANICS V%	HAZARDOUS MATERIALS	OTHER			
0	8DS18WFIB	434 6467	118.88	EV Filtrate	R00	15.53	52.6		[Signature]				14	08/25/87	
1	8DS11EFIA	451 6467	10.35	EV Filtrate	R00	12.00	52.6		[Signature]				14	08/25/87	
2	FSWPS1	429 6415	1.91	NON-FC Material	6-D2	28.57	56	16.8	[Signature]				14	08/25/87	
3	8DS18WFIB	434 6467	.	EV Filtrate	R00	1.38	44	99.9	[Signature]				30	08/25/87	
4	8DS11EFIA	451 6467	.	EV Filtrate	R00	3.21	44	99.9	[Signature]				30	08/25/87	
5			.										1	1/1	
6			.										1	1/1	
7			.										1	1/1	
8			.										1	1/1	
9			.										1	1/1	
TOTALS			Kg	180.91		27.53	52		TOTALS	2.2	2.13				
			Pounds	398.83	MST-12 Signature	28.57	56		Mst-12 Signature for						
			GROSS WT. Pounds	488.3	For Gross Weight	4.60	44		Accountability check						
				550.9	[Signature]				[Signature]						
The waste in this container was packaged and the MST-12 data on the DWLS and the CWSR were collected according to the procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s).										MST-10 Assay Value NA		Instrument ID.		MST-10 Signature Ronald W. Stanbury	
										QA Data Pkg Approval P.D. [Signature]					
										MST-12 Signature Charles L. Fox					

*05-2-231/0239A

WASTE PROFILE

TRU 006

LA53715



LA53715

EM-8 USE ONLY
Reference Number
04795

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490

Division/Group NMT/NMT-2	Telephone 7-1193	Mail Stop E501	Technical Area 55	Building PF-114	Room 206
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Method of Characterization

Knowledge of Process (KOP) Chemical/Physical Analysis (specify below)

MSDS attached (optional) Request for analysis Analysis attached

- OR -

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Nonsalvageable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgic	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)

TRU liquid and particulate wastes immobilized in gypsum-based cement. Evaporator bottom's metals and methanol.

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 139°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

Waste Origination

A. Is this waste generated in a radiation controlled area? Yes No

B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) Yes No

C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity

Nonradioactive Suspect Radioactive

Activity Measure	Radiation Type	Half life
<input type="checkbox"/> ≤ 2.0 nCi/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> 1 ^{yr} < 20 yr
<input type="checkbox"/> > 2.0 nCi/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> 1 ^{yr} ≥ 20 yr
<input type="checkbox"/> > 10.0 nCi/g	<input checked="" type="checkbox"/> gamma	
<input checked="" type="checkbox"/> > 100 nCi/g	<input type="checkbox"/> tritium	

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) Schueler, William T.	Z Number 106374	Signature William Schueler	Date 11/24/92
If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). -->		Name (last, first, middle)	Mail Stop

Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SW 846-6010A
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> 1.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other SW 846-6020(a)
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> 134.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other SW 846-6010A
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> 1.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> 130.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other KOP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 6.0 ppm	<input type="checkbox"/> 6.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
cresol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

methanol

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations of metals based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

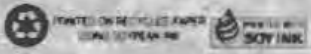
Waste Classification

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Non-RCRA waste | <input type="checkbox"/> RCRA-regulated solid waste | <input checked="" type="checkbox"/> RCRA-regulated hazardous waste | <input type="checkbox"/> Radioactive only |
| <input type="checkbox"/> PCB | <input type="checkbox"/> municipal refuse | <input type="checkbox"/> hazardous waste | <input type="checkbox"/> low-level waste |
| <input type="checkbox"/> non-PCB TSCA waste | <input type="checkbox"/> nonhazardous chemical waste | <input type="checkbox"/> mixed low-level waste | <input type="checkbox"/> transuranic waste |
| <input type="checkbox"/> asbestos | <input type="checkbox"/> administratively controlled waste | <input checked="" type="checkbox"/> mixed transuranic waste | |
| | <input type="checkbox"/> sanitary/industrial sludges | | |

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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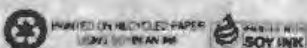
EM-8 Reviewer's Signature <i>Hayden</i>	Date 11/24/92	Cost Center/Program Code for Analysis	Reference Number 04795
--	------------------	---------------------------------------	---------------------------

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NM0890010515	Manifest Document No. 53715	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Los Alamos National Laboratory TA54 AREA G MS Los Alamos NM 87545			A. State Manifest Document Number		
4. Generator's Phone (505) 66-			B. State Generator's ID		
5. Transporter 1 Company Name LANL		6. US EPA ID Number	C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number	D. Transporter's Phone		
9. Designated Facility Name and Site Address Los Alamos National Laboratory RONALD G SALAZAR TA50 BLDG. 69 Los Alamos, NM 87545		10. US EPA ID Number	E. State Transporter's ID		
			F. Transporter's Phone		
			G. State Facility's ID		
			H. Facility's Phone 505 66-		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
a. <input checked="" type="checkbox"/> RO, RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918, HIGHWAY ROUTE CONTROLLED QUANTITY Solid, Elemental, Am241, Pu238, Pu239, Pu240, Pu241, Pu242		No. 1	669	P	
b.					
c.					
d.					
J. Additional Descriptions for Materials Listed Above 11a. D008, D007, D006		DISCREPANCY <input type="checkbox"/> <i>7/1/96</i> <i>4/96</i> JB		K. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information *EMERGENCY PHONE NO: (505) 667-6211* Radioactive 11a. ERGNO: 165 Highway Route controlled quantity placards Required Road closure Required TWSR#: 53715 HMTF#: 15470					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name DAVIS CHRISTENSEN		Signature <i>Davis Christensen</i>		Month Day Year 07/21/96	
17. Transporter 1 Acknowledgment of Receipt of Materials		Printed/Typed Name UPAOLZ AIVIN		Signature <i>Upaolz Aivin</i>	
18. Transporter 2 Acknowledgment of Receipt of Materials		Printed/Typed Name		Signature	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					
Printed/Typed Name Ron Salazar		Signature <i>Ron Salazar</i>		Month Day Year 10/23/96	

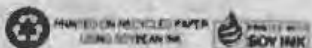


ORIGINAL-RETURN TO GENERATOR

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>11V0230010515</i>		Manifest Document No. <i>53715</i>		2. Page 1 of		Information in the shaded areas is not required by Federal law.	
		3. Generator's Name and Mailing Address		6. US EPA ID Number		A. State Manifest Document Number			
4. Generator's Phone ()		7. Transporter 1 Company Name		8. US EPA ID Number		C. State Transporter's ID		B. State Generator's ID	
5. Transporter 2 Company Name		9. Designated Facility Name and Site Address		10. US EPA ID Number		D. Transporter's Phone		E. State Transporter's ID	
						F. Transporter's Phone		G. State Facility's ID	
						H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol		I. Waste No.	
		No. Type							
a. <input checked="" type="checkbox"/> <i>11A</i> 80, RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918, HIGHWAY ROUTE CONTROLLED QUANTITY (solid, Elemental), AM241, PU239, PU238, PU240, PU241, PU242, 6.085e+01Ci, T.P.=0.1 RADIOACTIVE YELLOW III.		1		PM		545		P	
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above <i>11A 0000</i>		K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information <i>*EMERGENCY PHONE NO: (505) 667-8233 - 4118. ERGNO: 165</i>									
<i>TWSP: 53715 HMTF:</i>									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name <i>Ronald G. Salazar</i>		Signature <i>Ronald G. Salazar</i>				Month Day Year <i>10/18/96</i>			
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name <i>Alvin Salazar</i>				Signature <i>Alvin Salazar</i>			
						Month Day Year <i>10/18/96</i>			
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name				Signature			
						Month Day Year			
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name <i>Rick Martinez</i>		Signature <i>Rick Martinez</i>				Month Day Year <i>10/18/96</i>			



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MND90010515	Manifest Document No. 53/15	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address			A. State Manifest Document Number		B. State Generator's ID	
4. Generator's Phone ()			C. State Transporter's ID		D. Transporter's Phone	
5. Transporter 1 Company Name		6. US EPA ID Number	E. State Transporter's ID		F. Transporter's Phone	
7. Transporter 2 Company Name		8. US EPA ID Number	G. State Facility's ID		H. Facility's Phone	
9. Designated Facility Name and Site Address			10. US EPA ID Number			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. HW A RQ, RADIOACTIVE MATERIAL, FRAGILE, H.D.S., 7, 0N7912, HIGHWAY ROUTE CONTROLLED QUANTITIES, 11d, Elemental, AM241, PU238			1	DR	543	DR
b. PU239, PU240, PU241, PU242, S. ORG-9101, T.L.-O, 1 RADIOACTIVE YELLOW III.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above			K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information EMERGENCY PHONE NO: (505) 647-8211 1167 81080; 165 TWSR#: 53715 HWTF#:						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name Suzanne J. Salazar			Signature Suzanne Salazar		Month Day Year 10/21/15	
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name Curtis Volkmann			Signature Curtis Volkmann		Month Day Year 10/15/15	
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name Rick Martinez			Signature Rick Martinez		Month Day Year 10/11/15	



GENERATOR COPY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NY00000210515		Manifest Document No. 83715		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
		3. Generator's Name and Mailing Address						A. State Manifest Document Number					
4. Generator's Phone ()						B. State Generator's ID							
5. Transporter 1 Company Name			6. US EPA ID Number			C. State Transporter's ID		D. Transporter's Phone					
7. Transporter 2 Company Name			8. US EPA ID Number			E. State Transporter's ID		F. Transporter's Phone					
9. Designated Facility Name and Site Address						10. US EPA ID Number		G. State Facility's ID					
						H. Facility's Phone							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
						No.		Type					
a. <input checked="" type="checkbox"/> 99. RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918, HIGHWAY ROUTE CONTROLLED QUANTITY Solid, Elemental, AM241, PU238,						1		DR		943		P	
b. PU239, PU240, PU241, PU242, 6.0864-101Cl, T.I.=0.1 RADIOACTIVE YELLOW III.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information "EMERGENCY PHONE NO: (905) 667-8111" 11a. ERGNO: 65 THERE ARE 5715 LITERS													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name Ronald E. Galano			Signature Ronald E. Galano			Month Day Year 11/18/76							
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name Alvin Valdez			Signature Alvin Valdez			Month Day Year 11/18/76							
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name			Signature			Month Day Year							
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name Rick Martinez			Signature Rick Martinez			Month Day Year 11/18/76							



FILE COPY OR STATE COPY

DRUM SURVEY SHEET

TA - 50-69, WCRRF

LOCATION

ROOM: 102

103

104

50-193

BUILDING _____

OTHER _____

CONTAINER NUMBER: 53715

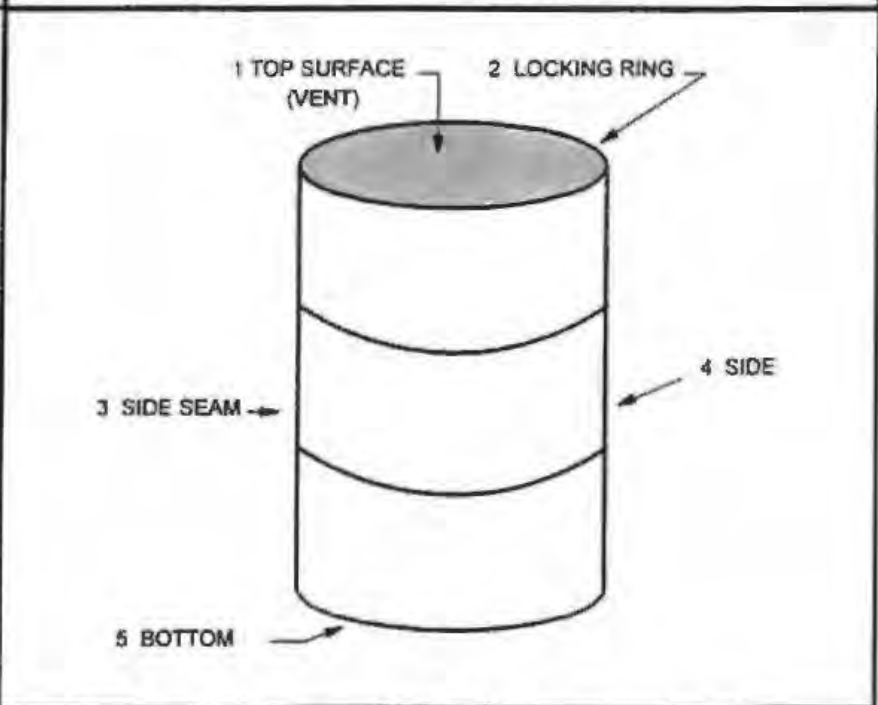
DRUM SURVEY DATE: 8/14/96

SURVEYED BY: K. C. [Signature]
(Signature)

RCT: Salazar

Ault

Other: _____



GAMMA INSTRUMENT

MODEL: RO-2

RO-3C

(OTHER) _____

P/N: 2645

CAL DUE DATE: 2/17/97

MAXIMUM GAMMA DOSE RATE

Δ contact 2.2 mR/hr
1 meter 0.1 mR/hr

NEUTRON INSTRUMENT

MODEL: ESP-2/NRD

PNR-4

(OTHER) ESP-1

P/N: 8037

CAL DUE DATE: 1/12/97

MAXIMUM NEUTRON DOSE RATE

contact 0.1 mRem/hr
1 meter 0 mR/hr.

SMEAR	LOCATION	ALPHA*	BETA*
1	TOP SURFACE		
2	LOCKING RING	<u>11.5</u>	
3	SIDE SEAM		<u>3.32</u>
4	SIDE	<u>dpm</u>	
5	BOTTOM		<u>dpm</u>

ALPHA / BETA INSTRUMENT
BERTHOLD LB770, P/N 844236

DISTRIBUTION:

1. RCT's TA-50 MS E516

2. _____

3. _____

APPROVED

Bobby Gonzales

DATE: / /

Stan Bodenstein, CS, 02:15 PM 9/9/96 -, Dewatered Drum Shipment to TA-

Return-Path: <bodenstein@lanl.gov >
X-Sender: sab@wm0.lanl.gov
Date: Mon, 09 Sep 1996 14:15:16 -0600
To: aic@lanl.gov
From: bodenstein@lanl.gov (Stan Bodenstein, CST-7, 5-8462)
Subject: Dewatered Drum Shipment to TA-54
Cc: Triay@lanl.gov, jrj@lanl.gov, shelmick@lanl.gov, grand@lanl.gov,
dvc@lanl.gov, aic@lanl.gov, rickmar@lanl.gov, jbalkey@lanl.gov,
ronwieneke@lanl.gov, kgruetzmacher@lanl.gov, andym@lanl.gov,
gveazey@lanl.gov, dpt@lanl.gov

I-Li,

We received the following drums from you as OVERPACKED 55 gallon drums. We dewatered each of the drums at the WCRRF.

Since each of the drums was in very good condition, we will be shipping the following list of drums back to you as 55 gallon drums, WITHOUT the overpacks. Also indicated is the change in weight due to the removal of water.

Please update the database as necessary.

Drum Number	Pounds	
	Initial Weight	Final Weight
53836	532.0	523.8
53746	534.8	528.0
53783	556.0	548.4
53789	538.6	532.2
53204	531.8	529.4
53174	537.6	534.9
53851	554.8	552.1
53771	560.4	556.3
53715	547.2	543.1
54893	539.2	536.5
52054	833.6	813.2
52484	855.2	833.8
53847	527.0	519.4
53790	557.2	548.2
53734	821.0	815.6
53848	534.8	530.2
54002	804.8	798.6
53712	529.8	523.0
52187	862.6	844.2
53824	536.6	530.8
53772	561.6	545.8
53796	554.2	549.6
53722	554.0	545.8
53703	527.2	517.8
53714	531.8	529.4
53814	533.0	519.2
54894	537.4	535.6
53306	539.4	529.8
53842	540.4	528.0
53802	530.6	520.4

Los Alamos
NATIONAL LABORATORY

5315

Environmental Management
Environmental Stewardship Program
EM-2501
Los Alamos, New Mexico 87545
(505) 867-8639
FAX (505) 865-8118

Date: October 2, 1996
Refer to: EM/ES-96-253

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: a/s

TS:lma

**LAND DISPOSAL RESTRICTIONS
NOTIFICATION FORM**

A copy of this form must be attached to each Waste Profile Form and to each Uniform Hazardous Waste Manifest required to transport waste within LAN pursuant to 40 CFR 268.7(a)(1).

Waste Profile Form No. 4795	Chemical Waste Waste Disposal Record No. LACCCCCC53715	Uniform Hazardous Waste Manifest No. 53715	Date of Waste Pickup 8/25/43
---------------------------------------	---	---	--

Check only one.

- Non-wastewater
 Wastewater (as defined in 40 CFR 268.2(f))

NOTIFICATION OF CALIFORNIA LIST APPLICABILITY

Check all that apply.

- Liquid hazardous waste containing PCBs at a concentration of 250 ppm.
 A D001 - D017 liquid waste containing 2134 mg/l of nickel and/or 2130 mg/l of thallium.
 A D001 - D011 waste containing Halogenated Organic Compounds (HOCs) listed in 40 CFR 268, Appendix III, at 21000 ppm

NOTIFICATION OF "D" CHARACTERISTIC EPA WASTE CODES

Check all that apply.

EPA Waste Code Waste Description and/or Subcategory (as needed)

- D001 Ignitable characteristic wastes (except for the Section 261.21(a)(1) High TOC Subcategory) that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
- D001 High TOC Ignitable Characteristic Liquids Subcategory based on 40 CFR 261.21(a)(1) - Greater than 10% total organic carbon.
- D002 Corrosive Characteristic Wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
- D003 Reactive Sulfides Subcategory
- D003 Reactive Cyanides Subcategory
- D003 Water Reactive Subcategory
- D003 Other Reactives Subcategory (based on 261.23(a)(1))
- D004
- D005
- D006 Wastes that exhibit the TC for cadmium
- D006 Cadmium Containing Bases Subcategory
- D007
- D008 Wastes that exhibit TC for lead
- D008 Lead Acid Bases Subcategory
- D009 ^{D65} ^{shar} Radioactive Lead Solids Subcategory
- D009 High Mercury-Organic Subcategory (≥250 mg/kg Hg with organics and not inorganic residues)
- D009 High Mercury-Inorganic Subcategory (≥250 mg/kg Hg (with inorganics))
- D009 Low Mercury Subcategory (<250 mg/kg Hg)
- D009 All D009 wastes
- D009 Elemental mercury contaminated with radioactive materials.
- D009 Hydraulic oil contaminated with Mercury Radioactive Materials Subcategory
- D010
- D011

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> D012 | <input type="checkbox"/> D020 | <input type="checkbox"/> D028 | <input type="checkbox"/> D036 |
| <input type="checkbox"/> D013 | <input type="checkbox"/> D021 | <input type="checkbox"/> D029 | <input type="checkbox"/> D037 |
| <input type="checkbox"/> D014 | <input type="checkbox"/> D022 | <input type="checkbox"/> D030 | <input type="checkbox"/> D038 |
| <input type="checkbox"/> D015 | <input type="checkbox"/> D023 | <input type="checkbox"/> D031 | <input type="checkbox"/> D039 |
| <input type="checkbox"/> D016 | <input type="checkbox"/> D024 | <input type="checkbox"/> D032 | <input type="checkbox"/> D040 |
| <input type="checkbox"/> D017 | <input type="checkbox"/> D025 | <input type="checkbox"/> D033 | <input type="checkbox"/> D041 |
| <input type="checkbox"/> D018 | <input type="checkbox"/> D026 | <input type="checkbox"/> D034 | <input type="checkbox"/> D042 |
| <input type="checkbox"/> D019 | <input type="checkbox"/> D027 | <input type="checkbox"/> D035 | <input type="checkbox"/> D043 |

*All applicable Underlying Hazardous Constituents in these characteristic wastes must be checked in Table UTS.




CONTAINER PROFILE

53715

T-MTRU-TEMP

WS ID: 28860
C ID: 761863
ACTIVE

GENERAL INFORMATION

Container ID:	761863	
Labeled ID:	53715	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28860	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 29-Jul-1993 12:00 am
Quantity (Univ):		Accum Start Date: 29-Jul-1993
Compactible:		Closed Date: 29-Jul-1993
Discard Matrix:		
TID(s):		
Gen Contact:		
Insert By:	WCATS APPLICATION (000000)	
Waste Desc:	(LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT. EVAPORATOR BOTTOMS METALS AND MET	

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	625.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	82.00 lb
		Net Weight:	483.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000153: C005: L01: R06



CONTAINER PROFILE
53715
T-MTRU-TEMP

WS ID: 28860
 C ID: 761863
 ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____
Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED
 HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	4184		0/0
Not Specified	NA	Carbon Composite	0	4976		0/0
Not Specified	NA	Carbon Composite	0	CI-571		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



**CONTAINER PROFILE
53715
T-MTRU-TEMP**

WS ID: 28860
C ID: 761863
ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 72342, Status: Active</i>							
B/G Survey			= 0.40	=	=	Not Applicable	
Neutron Survey			= 0.20	=	=	Not Applicable	
Smear Results			Not Applicable			= 0.91	= 7.40

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 336221, Date: 07/29/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	4.61E+000	g	0.00E+000	N				NONE
52	2.75E+001	g	0.00E+000	N				NONE
56	2.85E+001	g	0.00E+000	N				NONE
Am-241	1.58E+001	Ci	0.00E+000	Y			Y	
Pu-238	3.45E-001	Ci	0.00E+000	Y			Y	
Pu-239	3.05E+000	Ci	0.00E+000	Y			Y	
Pu-240	1.44E+000	Ci	0.00E+000	Y			Y	
Pu-241	4.05E+001	Ci	0.00E+000	Y			Y	
Pu-242	4.21E-004	Ci	0.00E+000	Y			Y	
U-234	3.89E-005	Ci	0.00E+000	Y			Y	
U-235	1.15E-007	Ci	0.00E+000	Y			Y	

53719



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code NML 0242 AAG	Inspected Items		
Year of Manufacture 1913	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number N/A	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	Printed Name Steven Gallego	Date 8-5-93	
	Signature Steven Gallego		

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE Group NMT-2	Technical Area TA-55	Building PF4	Program Code K567							
Additional Information 55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM										
TID# 820145										
CGDE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT						
		Type	Thickness (in.)	Nuclide	Amount +/-		Uncertainty +/-		C-Corr M-Gram	
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None								
02	<input type="checkbox"/> Standard Waste Box			Pu152	2.455	E +11				M
03	<input checked="" type="checkbox"/> Other (Call TWCO)	LEAD	6.3E-12	Am141	2.52	E +10				M
04	<input type="checkbox"/> RH Canister									
Waste Profile Request Number 04636										
Carbon Filter ID 01A4111E										
Process Batch Code N/A										
Gross Weight (lb.) 16.561E+12		NONRADIOACTIVE HAZARDOUS MATERIALS								
Organic Material Wt. (lb.) 14.619E+10		Name			EPA Code		Quantity (g)			
Organic Material Volume (%) 110		LEAD SHIELDING			D008		3.8E+4			
TRUCON Code 11141A		CADMIUM			D006		2.4E+0			
Date Closed (MMDDYY) 08/05/93		CHROMIUM			D007		9.5E+1			
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. This information is correct and complete to the best of my knowledge.										
Printed Name Kathleen M. Gruetzmacher		Signature KM Gruetzmacher			Date 8/11/93					

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) 5.0E-11	Survey Meter Model RO-3C	Property Number 2646
Neutron Dose Rate (mrem/h) 0.9E+0	Survey Meter Model PNR-4	Property Number 4905
Total Dose Rate (mrem/h) 5.0E-11	The data in this section were collected according to approved procedures.	
Alpha Contamination (dpm/100cm ²) 0.9E+0	Printed Name RJCOX	Date 8/9/93
Beta-Gamma Cont. (dpm/100cm ²) 17.0E+0	Signature RJCOX	

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA 54 by AF 10-5.	Printed Name BRUCE LE BRUN	Date 8/12/93
	Signature Bruce Le Brun	

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	018 116 913	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	09 01 93	Printed Name	Bruce Le Brun	Signature	Bruce Le Brun

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name	Alex E Lopez	Signature	Alex E Lopez	Date	8-30-93
--------------	--------------	-----------	--------------	------	---------

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	14.0 E - 1	Survey Meter Model	R03C	Property Number	2620
Neutron Dose Rate (mrem/h)	3.0 E - 1	Survey Meter Model	PNR 4	Property Number	5229
Total Dose Rate (mrem/h)	17.0 E - 1	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	1.1 E - 10	Printed Name	J.T. Miller	Date	9-13-93
Beta Gamma Cont. (dpm/100cm ²)	5.3 E - 10	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Am	Date Received	9-9-93	ORIGINAL STORAGE DATA	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Pallet Number	153
				Layer	1
				Row Number	8
				Column Number	17
				Date Stacked (MM,DD,YY)	09/14/93
Printed Name	Pick Martinez	Date	9-9-93	Printed Name	Charlotte Fernandez
Signature	Pick Martinez			Signature	Charlotte Fernandez

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name	BRUCE LE BRUN	Date	11/19/93
	Signature	Bruce Le Brun		

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	110 217 913	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	11 01 93	Printed Name	HARRI WIKER	Signature	HARRI WIKER

12. DUPLICATE COPY

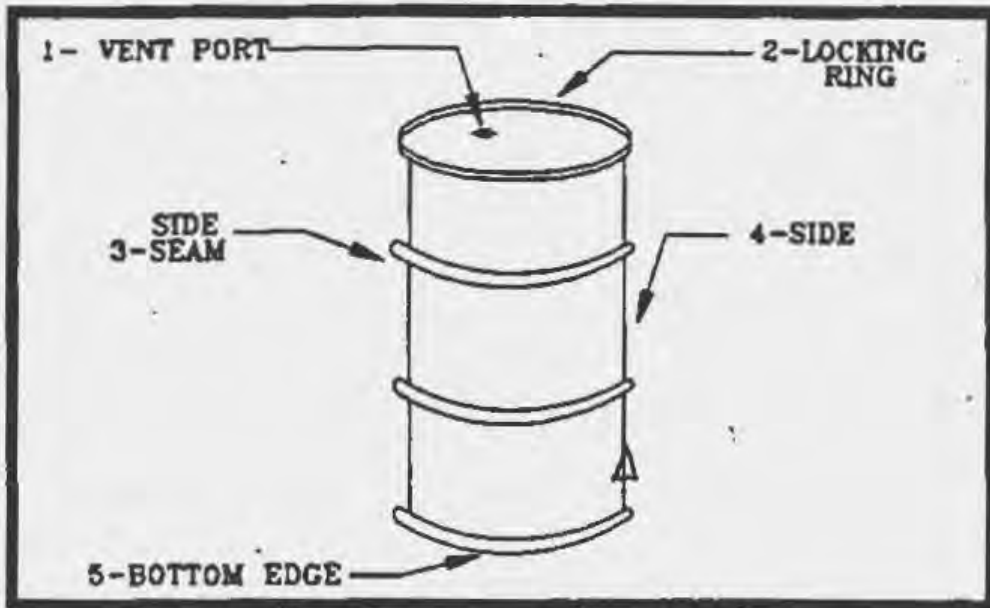
M M D D Y Y

Date Duplicate Filed	1 10 6 93	Printed Name	Renee Sandoval	Signature	Renee Sandoval
----------------------	-----------	--------------	----------------	-----------	----------------

TRU CONTAINER SMEAR SURVEY DATA SHEET MAILED

AUG 06 1993

TA 3 BUILDING 29 SAMPLE DATE 8-5-93
 RPT R. Cox CONTAINER NO. LA00000053719



△ Maximum Gamma Dose Rate 0.5 mR/hr.
 □ Maximum Neutron Dose Rate 0.0 mRem/hr.

SMEAR NO.	LOCATION	*ALPHA	*BETA-GAMMA
1	VENT PORT	NDA	NDA
2	LOCKING RING	↓	↓
3	SIDE SEAM	↓	↓
4	SIDE	↓	6
5	BOTTOM EDGE	↓	7

GAMMA INSTRUMENT
 Model: RO-3C
 P/N: 2646
 CDD: 9-16-93

NEUTRON INSTRUMENT
 Model: PNR-4
 P/N: 4905
 CDD: 9-3-93

*dpm/100cm. sq.

DISTRIBUTION:

1. RPT's TA-54 MS J592
2. RCT^S TA-3-29 MS 6749
3. _____

ANALYZED BY: David A Barnes Mike Jensen
 DATE: 8/6/93

2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

DISCHARGEABLE WASTE LOG SHEET

Effective Date 10/19/87

Page 1 of 1 Pages

2 A 8 7 0 1 0 0 5 0 5 6 9

WASTE PACKAGE SERIAL NUMBER

Proc. N-Comb Comb Pu-238

Vent Clip or Carbon Filter installed installer's INITIALS

Lead Lined

90 Mil Drum Liner

CONTAINER: open In-Line

Tamper Indicating Seal # AD48455

1/8 Inch Drum Liner

Waste Code: N/A

Date Sealed 12/03/87

ITH NO	ITEM ID	FROM RM/BOX	PKG WT Kg	MATRIX (MATERIAL)	MEAS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONNEL	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy	
										ORGANICS V% WT.	HAZARDOUS MATERIALS	OTHER REMARKS			
0	11D519EF2	⁴³⁴ G-468	140.06	Filtrate	RCO	15.92	52	6	Smith				1	12/03/87	
1	11RR12EF1A	⁴³⁴ G-467	35.02	Filtrate	RCO	8.63	52	6	Smith				1	12/03/87	
2	11D519EF2	⁴³⁴ G-468		Filtrate	RCO	1.25	44	99.9	Smith				31	12/03/87	
3	11RR12EF1A	⁴³⁴ G-467		Filtrate	RCO	1.27	44	99.9	Smith				31	12/03/87	
4													1	1 1	
5													1	1 1	
6													1	1 1	
7													1	1 1	
8													1	1 1	
9										22	2.13	Packaging	1	1 1	
TOTALS Pkg Wt. Kg			175.08	MST-12 signatures for Gross Weight			24.55	52	TOTALS			2.13	Haz. Mat. Kg		
x 2.2046 = Pkg Wt Lbs			385.98	for Accountability check			2.52	44	organics pounds			4.69	MST-10 Assay Value <u>N/A</u>		
Scale GROSS WT. Pounds			537.92							QA Data Pkg. Approval			Instrument ID. _____		
55 gal. drum TARE Pounds			151.94							<u>R. B. L. Brown</u>			MST-10 Signature <u>Ronald W. Blankenship</u>		

This container's waste was packaged and the MST-12 data on the DMLS and the CHER were collected according to procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s). MST-12 Signature Charles L. Fox

* CS-2-231/0239A

Los Alamos

Los Alamos National Laboratory

Los Alamos, New Mexico 87545

CERTIFIED WASTE STORAGE RECORD

WASTE PACKAGE SERIAL NUMBER

LA 870110105051619

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE		ADDITIONAL INFORMATION		TID# A04855		
Group	WJST-12	0.5 MREM/HR Neutron				
TA	55					
Building	PF-4					
Room	401					
CODE	CONTAINER	INTERNAL SHIELDING		RADIOISOTOPE CONTENT		C - Curie M - Gram
				Nuclide	Amount	
01	<input checked="" type="checkbox"/> Steel Drum (55 gal.)					
02	<input type="checkbox"/> Steel Overpack (Drums)					
03	<input type="checkbox"/> Steel Box (68 in. X 54 in. X 38.5 in.)	Type	Thickness (in.)	Pu-239	2.455	E + 1 M
04	<input type="checkbox"/> Steel Overpack (FRP Box)	<input type="checkbox"/> None		Am-241	2.521	E + 10 M
	<input type="checkbox"/> Other (Describe)	<input checked="" type="checkbox"/> Lead	6.3 E - 2			
		<input type="checkbox"/> Steel				
		<input type="checkbox"/> Concrete				
		<input type="checkbox"/> Other				
Drum Lot Code	181	Year of Mfr.	1817			
Manufacturer's Box Serial Number	444					
Process Batch Code	444		HAZARDOUS MATERIALS			
Gross Wt. (lb.)	5.38	E + 12	Name	EPA Code	Quantity (g)	
Organic Mat'l Wt. (lb.)	4.69	E + 10	Lead	D0018	3.8	E + 7
Organic Mat'l Vol. (lit.)						
Content Code	1016					
Date Closed (MMDDYY)	12/03/87					
The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.						
Printed Name	Carl P. Trujillo		Signature	[Signature]		Date
						12/04/87

II. GENERATOR-SITE HEALTH PHYSICS INFORMATION

Surface Dose Rate (mrem/h)	13.0	E + 10	The data in this section were collected as prescribed in approved procedures. The package is properly closed and is safe to handle and transport.			
Survey Meter Model	Lud 139	Ro-3c	PNP-4			
Survey Meter Serial No.	003504	002610	003204			
Alpha Contamination (dpm/100cm ²)	11.3	E + 11	Printed Name	LOW WILLIAMS		Date
Beta-Gamma Cont. (dpm/100cm ²)	12.7	E + 11	Signature	LOW WILLIAMS		12/9/87

III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION

The date package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-2.	Printed Name	Date
	Signature	

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Surface Dose Rate (mrem/h)		* E +	The data in this section were collected at the TA-54 waste storage/deposal site as defined in approved procedures. The package is acceptable for handling and storage.			
Survey Meter Model						
Survey Meter Serial No.						
Alpha Contamination (dpm/100cm ²)		* E +	Printed Name	Date		
Beta-Gamma Cont. (dpm/100cm ²)		* E +	Signature			

V. STORAGE SITE INFORMATION

This package was visually inspected when received and was found to be properly labeled and in good condition. It was accepted according to approved procedures.	Pid No.	Layer	<input type="checkbox"/> E <input type="checkbox"/> C <input type="checkbox"/> W
	Post No.	Date Stacked	
This waste package was stored at this location according to approved procedures.			
Printed Name	Date	Printed Name	Date
Signature		Signature	

Los Alamos

NATIONAL LABORATORY

53719

Environmental Management
Environmental Stewardship Program
EM, J591
Los Alamos, New Mexico 87545
(505) 667-6639
FAX (505) 665-8118

Date: October 2, 1996
Refer to: EM/ES-96-253

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

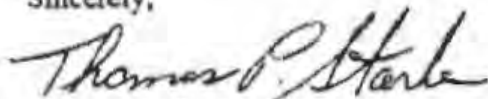
SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: w/s

TS:lma

WASTE PROFILE

TRU 006

MLA53719*



LA53719

EM-8 USE ONLY
Reference Number
C4636

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490

Division/Group <u>NMT / NMT-2</u>	Telephone <u>7-1193</u>	Mail Stop <u>E501</u>	Technical Area <u>55</u>	Building <u>PF-114</u>	Room <u>206</u>
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Method of Characterization Knowledge of Process (KOP) Chemical/Physical Analysis (specify below) - OR - Request for analysis Analysis attached
 MSDS attached (optional)

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

- | | | | | |
|---|---|---|---|--|
| <input type="checkbox"/> Flammable | <input type="checkbox"/> Pesticide | <input type="checkbox"/> Photographic | <input type="checkbox"/> Spent coolant | <input type="checkbox"/> Plastics |
| <input type="checkbox"/> Combustible | <input type="checkbox"/> Beryllium | <input type="checkbox"/> Sanitary | <input type="checkbox"/> Aerosol cans | <input type="checkbox"/> Filter media |
| <input type="checkbox"/> High explosive | <input type="checkbox"/> Asbestos | <input type="checkbox"/> Radiochemistry | <input type="checkbox"/> Motor oil | <input type="checkbox"/> Vacuum filter media |
| <input type="checkbox"/> DOT oxidizer | <input type="checkbox"/> Solvent | <input type="checkbox"/> Paint waste | <input type="checkbox"/> Pump oil | <input checked="" type="checkbox"/> Cement paste |
| <input type="checkbox"/> Pyrophoric | <input type="checkbox"/> Waste rags | <input type="checkbox"/> Laboratory trash | <input type="checkbox"/> Capacitor oil | <input type="checkbox"/> Nonsalvageable |
| <input type="checkbox"/> Cyanide | <input type="checkbox"/> Glass | <input type="checkbox"/> Metallurgic | <input type="checkbox"/> UST remediation | <input type="checkbox"/> Nonrecyclable |
| <input checked="" type="checkbox"/> Heavy metal | <input type="checkbox"/> Plating solution | <input type="checkbox"/> Scrap metal | <input type="checkbox"/> Contaminated soils | <input type="checkbox"/> Building debris |
| <input type="checkbox"/> Corrosive | <input type="checkbox"/> Etchant | <input type="checkbox"/> Medical/Biological | <input type="checkbox"/> Environmental/SWMU | <input type="checkbox"/> Firing site debris |

General Description (provide a general description of the waste and/or waste-generating process below)

TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

- | | | | | |
|---|---|---|---|--|
| Form | Ignitability (F) | Corrosivity (pH) | Reactivity | PCBs |
| <input checked="" type="checkbox"/> Solid | <input type="checkbox"/> < 100° | <input type="checkbox"/> 2.0 or less | <input type="checkbox"/> Unstable | <input type="checkbox"/> < 50 ppm |
| <input type="checkbox"/> Semisolid/sludge | <input type="checkbox"/> 100° to 135° | <input type="checkbox"/> 2.1 to 12.4 | <input type="checkbox"/> Water reactive | <input type="checkbox"/> 50 to 500 ppm |
| <input type="checkbox"/> Absorbed liquid | <input type="checkbox"/> 140° to 200° | <input type="checkbox"/> 12.5 or greater | <input type="checkbox"/> Cyanides | <input type="checkbox"/> > 500 ppm |
| <input type="checkbox"/> Liquid | <input type="checkbox"/> > 200° | <input checked="" type="checkbox"/> Not aqueous | <input type="checkbox"/> Sulfides | <input checked="" type="checkbox"/> None |
| <input type="checkbox"/> Gas cylinder or vessel | <input checked="" type="checkbox"/> Not ignitable | | <input type="checkbox"/> Shock sensitive | |
| <input type="checkbox"/> Multilayered | | | <input type="checkbox"/> Class A or B explosive | |
| <input type="checkbox"/> Suspended solids | | | <input checked="" type="checkbox"/> Nonreactive | |
| <input type="checkbox"/> Powder or ash | | | | |

Waste Origination

- A. Is this waste generated in a radiation controlled area? Yes No
- B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) Yes No
- C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity

- Nonradioactive Suspect Radioactive
- | | | |
|---|---|--|
| Activity Measure | Radiation Type | Half-life |
| <input type="checkbox"/> ≤ 2.0 nCi/g | <input checked="" type="checkbox"/> alpha | <input type="checkbox"/> t ^{1/2} < 20 yr |
| <input type="checkbox"/> > 2.0 nCi/g | <input checked="" type="checkbox"/> beta | <input checked="" type="checkbox"/> t ^{1/2} ≥ 20 yr |
| <input type="checkbox"/> > 10.0 nCi/g | <input checked="" type="checkbox"/> gamma | |
| <input checked="" type="checkbox"/> > 100 nCi/g | <input type="checkbox"/> tritium | |

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) <u>Schueler, William T.</u>	Z Number <u>106374</u>	Signature <u>William Schueler</u>	Date <u>10/14/92</u>
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If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). -->	Name (last, first, middle)	Mail Stop
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Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other: SW546-601CA
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other: ↓
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other: ↓
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other: ↓
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other: ↓
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other: SW546-6020(mod)
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other: SW546-601CA
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other: ↓
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other: ↓
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other: NoP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other: NoP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 6.0 ppm	<input type="checkbox"/> ≥ 6.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
creosol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.00 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other: ↓

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

Waste Classification

<input type="checkbox"/> Non-RCRA waste	<input type="checkbox"/> RCRA-regulated solid waste	<input checked="" type="checkbox"/> RCRA-regulated hazardous waste	<input type="checkbox"/> Radioactive only
<input type="checkbox"/> PCB	<input type="checkbox"/> municipal refuse	<input type="checkbox"/> hazardous waste	<input type="checkbox"/> low-level waste
<input type="checkbox"/> non-PCB TSCA waste	<input type="checkbox"/> nonhazardous chemical waste	<input type="checkbox"/> mixed low-level waste	<input type="checkbox"/> transuranic waste
<input type="checkbox"/> asbestos	<input type="checkbox"/> administratively controlled waste	<input checked="" type="checkbox"/> mixed transuranic waste	
	<input type="checkbox"/> sanitary/industrial sludges		

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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EM-8 Reviewer's Signature A. Lagman	Date 10/14/92	Cost Center/Program Code for Analysis	Reference Number 04636
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CONTAINER PROFILE

53719

T-MTRU-TEMP

WS ID: 28588
C ID: 767997
ACTIVE

GENERAL INFORMATION

Container ID:	767997	
Labeled ID:	53719	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28588	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 05-Aug-1993 12:00 am
Quantity (Univ):		Accum Start Date: 05-Aug-1993
Compactible:		Closed Date: 05-Aug-1993
Discard Matrix:		
TID(s):		
Gen Contact:		
Insert By:	WCATS APPLICATION (000000)	
Waste Desc:	(LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.	

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	656.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	110.00 lb
		Net Weight:	546.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000153: C063: L01: R02



CONTAINER PROFILE
53719
T-MTRU-TEMP

WS ID: 28588
C ID: 767997
ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____
Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED
HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	4118		0/0
Not Specified	NA	Carbon Composite	0	1862		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53719
T-MTRU-TEMP

WS ID: 28588
 C ID: 767997
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 73677, Status: Active</i>							
B/G Survey			= 0.40	=	=	Not Applicable	
Neutron Survey			= 0.30	=	=	Not Applicable	
Smear Results			Not Applicable			= 1.10	= 5.30

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 338835, Date: 08/05/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	2.52E+000	g	0.00E+000	N				NONE
52	2.46E+001	g	0.00E+000	N				NONE
Am-241	8.65E+000	Ci	0.00E+000	Y			Y	
Pu-238	4.21E-002	Ci	0.00E+000	Y			Y	
Pu-239	1.43E+000	Ci	0.00E+000	Y			Y	
Pu-240	3.34E-001	Ci	0.00E+000	Y			Y	
Pu-241	5.08E+000	Ci	0.00E+000	Y			Y	
Pu-242	1.94E-005	Ci	0.00E+000	Y			Y	
U-234	3.06E-006	Ci	0.00E+000	Y			Y	
U-235	5.31E-008	Ci	0.00E+000	Y			Y	

53737



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code <i>NmL0011A06</i>	Inspected Items		
Year of Manufacture <i>1913</i>	<input checked="" type="checkbox"/> Flng. Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number <i>N/A</i>	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	Printed Name <i>Steven Geiego</i>	Date <i>8-5-93</i>	
	Signature <i>Steven Geiego</i>		

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE Group <i>NMT-2</i>	Technical Area <i>TA-55</i>	Building <i>PF4</i>	Program Code <i>K567</i>
Additional Information <i>55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM</i>			
<i>TIO # B 20151</i>			
CODE	CONTAINER	INTERNAL SHIELDING	RADIONUCLIDE CONTENT
01	<input type="checkbox"/> Small Drum (55 gal.)	<input type="checkbox"/> None	Nuclide
02	<input type="checkbox"/> Standard Waste Box	Type	Amount ±
03	<input checked="" type="checkbox"/> Other (Gall TWCO)	Thickness (in.)	Uncertainty ±
04	<input type="checkbox"/> RH Canister		Co-Curve M/Gram
Waste Profile Request Number <i>04636</i>			
Carton Filter ID <i>01 617191</i>			
Process Batch Code <i>N/A</i>			
Glass Weight (lb.) <i>18.910E+12</i>		NONRADIOACTIVE HAZARDOUS MATERIALS	
Organic Material Wt (lb.) <i>1.82E+10</i>		Name	EPA Code
Organic Material Volume (L) <i>1.110</i>		Quantity (g)	
TRUCON Code <i>km126A</i>		LEAD SHIELDING	D 0 0 8
Date Closed (MMDDYY) <i>08/05/93</i>		CADMIUM	D 0 0 6
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. The correct and complete to the best of my knowledge.		CHROMIUM	D 0 0 7
		LEAD	D 0 0 8
Printed Name <i>Kathleen M. Gruetzmacher</i>	Signature <i>KM Gruetzmacher</i>	Date <i>8/11/93</i>	

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) <i>4.0E+10</i>	Survey Meter Model <i>RO-3C</i>	Property Number <i>2646</i>
Neutron Dose Rate (mrem/h) <i>0.0E+10</i>	Survey Meter Model <i>PNR-4</i>	Property Number <i>4905</i>
Total Dose Rate (mrem/h) <i>4.0E+10</i>	The data in this section were collected according to approved procedures.	
Alpha Contamination (dpm/100cm ²) <i>0.0E+10</i>	Printed Name <i>RJ Cox</i>	Date <i>8/9/93</i>
Beta Gamma Cont. (dpm/100cm ²) <i>0.0E+10</i>	Signature <i>RJ Cox</i>	

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA-54 by AR 10.5	Printed Name BRUCE LE BRUN	Date <i>8/12/93</i>
	Signature <i>Bruce Le Brun</i>	

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	01811793	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	090193	Printed Name	ARRI WILDER	Signature	ARRI WILDER

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments	
Printed Name	Ann E. Lopez
Signature	Ann E. Lopez
Date	8/30/93

9-24-93
4-23-93

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	1.0E+10	Survey Meter Model	RO3C	Property Number	2620
Neutron Dose Rate (mrem/h)	5.0E-11	Survey Meter Model	PAR 4	Property Number	5229
Total Dose Rate (mrem/h)	1.5E+10	The data in this section were collected according to approved procedures.			
Alpha Contamination (cpm/100cm ²)	1.2E+10	Printed Name	J.T. MILLER	Date	9-13-93
Beta Gamma Cont. (cpm/100cm ²)	19.2E+10	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Rm	Date Received	9-9-93	ORIGINAL STORAGE DATA					
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Pod Number	153	Layer	1	Row Number	4
				Column Number	23	Date Stacked (MM,DD,YY)	09114	93	
Printed Name	Rick Martinez	Date	9-9-93	Printed Name	Charlotte Fernandez	Date	9/15/93		
Signature	Rick Martinez			Signature	Charlotte Fernandez				

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name	BRUCE LE BRUN	Date	11/1/93
		Signature	Bruce Le Brun	

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	11021793	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	110193	Printed Name	ARRI WILDER	Signature	ARRI WILDER

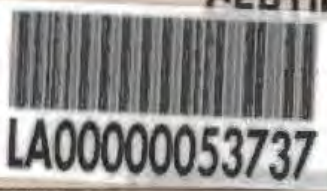
12. DUPLICATE COPY

Date Duplicate Filed	112101693	Printed Name	Renée Sandoval	Signature	Renée Sandoval
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4/24/89

CERTIFIED WASTE STORAGE RECORD

Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545



WASTE PACKAGE SERIAL NUMBER
LA 8 8 0 1 0 0 5 1 1 2 8

AGE INFORMATION

TID # A05582

ORIGIN OF WASTE	ADDITIONAL INFORMATION
Group <i>MST-12</i>	
TA <i>55</i>	
Building <i>PF-4</i>	
Program Code <i>K530</i>	<i>FIXED Alpha-NDA LVD 139-3547</i>

CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT		C - Curie M - Gram		
				Nuclide	Amount			
01	<input type="checkbox"/> Steel Drum (55 gal.)	Type	Thickness (in.)	<i>Pu 239</i>	<i>4.47E+1</i>	<i>M</i>		
02	<input type="checkbox"/> Steel Overpack (Drums)			<i>A 244</i>	<i>6.7E+0</i>	<i>M</i>		
03	<input type="checkbox"/> Steel Box (66 in. X 54 in. X 38.5 in.)			<input type="checkbox"/> None				
04	<input type="checkbox"/> Steel Overpack (FRP Box)			<input checked="" type="checkbox"/> Lead	<i>0.3</i>	<i>7.02E+10</i>	<i>M</i>	
	<input type="checkbox"/> Other (Describe)	<input type="checkbox"/> Steel						
		<input type="checkbox"/> Concrete						
		<input type="checkbox"/> Other						
Drum Lot Code	<i>B1</i>	Year of Mfr.	<i>1977</i>					
Manufacturer's Box Serial Number	<i>4A</i>							
Process Batch Code	<i>4A</i>	HAZARDOUS MATERIALS						
Gross Wt. (lb)	<i>17.32E+1</i>	Name	EPA Code	Quantity (g)				
Organic Mat'l Wt. (lb)	<i>1.82E+1</i>	<i>Lead</i>	<i>D.0.0.5</i>	<i>3.9E+4</i>				
Organic Mat'l Vol (%)	<i>10</i>	<i>egg</i>						
Content Code	<i>D.0.0.6</i>							
Date Closed (MMDDYY)	<i>12/17/88</i>							

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name *Chester A. Smith Jr* Signature *Chester A. Smith Jr* Date *08-18-88*

II. GENERATOR—SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	<i>0.5E+1</i>	Survey Meter Model	<i>RO-3C</i>	Property No.	<i>2653</i>
Neutron Dose Rate (mrem/h)	<i>0.5E+1</i>	Survey Meter Model	<i>PNR-4</i>	Property No.	<i>4910</i>
Total Dose Rate (mrem/h)	<i>1.0E+1</i>				
Alpha Contamination (dpm/100cm ²)	<i>10.0E+10</i>	The data in this section were collected as prescribed in approved procedures.			
Beta-Gamma Cont. (dpm/100cm ²)	<i>11.7E+11</i>	The package is safe to handle and transport.			
Printed Name	<i>ARTURO R. SANCHEZ</i>	Signature	<i>Arturo R. Sanchez</i>	Date	<i>12-22-88</i>

III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-5.
Printed Name *BRUCE LE BRUN* Date *1/3/89*
Signature *Bruce Le Brun*

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	<i>5.0E+10</i>	Survey Meter Model	<i>RO2C</i>	Property No.	<i>002619</i>
Neutron Dose Rate (mrem/h)	<i>2.5E+1</i>	Survey Meter Model	<i>PNR4</i>	Property No.	<i>005228</i>
Total Dose Rate (mrem/h)	<i>5.3E+10</i>				
Alpha Contamination (dpm/100cm ²)	<i>0.0E+10</i>	The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.			
Beta-Gamma Cont. (dpm/100cm ²)	<i>0.0E+10</i>				
Printed Name	<i>EDWARD SCHULTZ</i>	Signature	<i>Edward Schultz</i>	Date	<i>1-24-89</i>

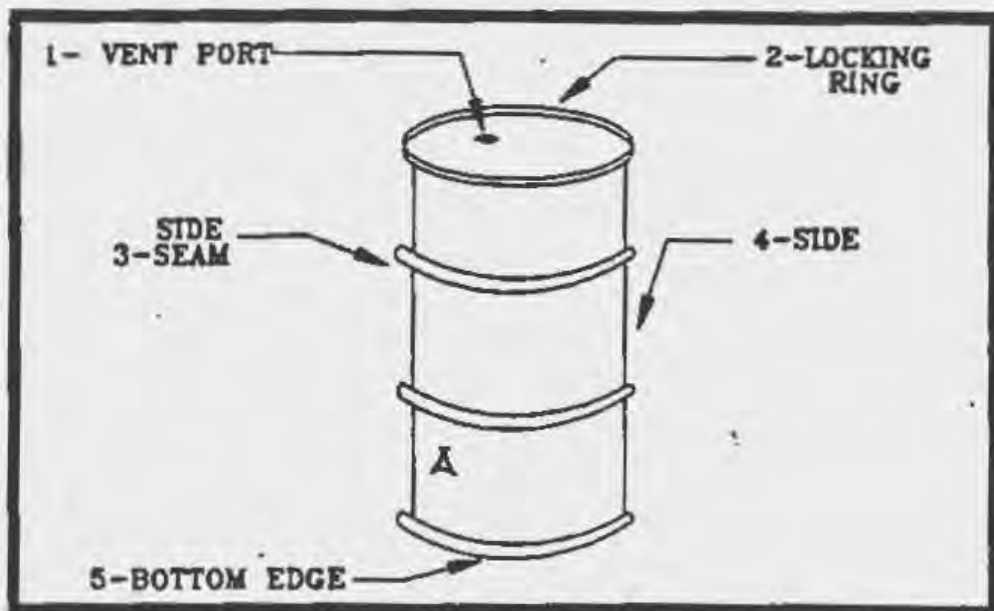
V. STORAGE SITE INFORMATION

Received by	<i>ANDREW J. CATANACH</i>	Date received	<i>1/9/89</i>	Pat No	<i>MD-33</i>	Layer	<i>2</i>	<input type="checkbox"/> E <input checked="" type="checkbox"/> C <input type="checkbox"/> W
This package was visually inspected and found to be properly labeled and in good condition. It was accepted according to approved procedures.				Post No.	<i>25-20</i>	Date Stacked	<i>2/1/89</i>	This waste package was stored at this location according to approved procedures.
Printed Name	<i>ANDREW J. CATANACH</i>	Date	<i>1/9/89</i>	Printed Name	<i>Lori Schneider</i>	Date	<i>2/1/89</i>	
Signature	<i>Andrew J. Catanach</i>			Signature	<i>Lori Schneider</i>			

TRU CONTAINER SMEAR SURVEY DATA SHEET - MAILED

AUG 06 1993

TA 3 BUILDING 29 SAMPLE DATE 8-5-93
 RPT R. Cox CONTAINER NO. LA000000.53737



Maximum Gamma Dose Rate 4.0 mR/hr.
 Maximum Neutron Dose Rate 0.0 mRem/hr.

SMEAR NO.	LOCATION	*ALPHA	*BETA-GAMMA
1	VENT PORT	NDA	NDA
2	LOCKING RING	↓	↓
3	SIDE SEAM	↓	↓
4	SIDE	↓	↓
5	BOTTOM EDGE	↓	↓

*dpm/100cm. sq.

GAMMA INSTRUMENT

Model: RO-3C
 P/N: 2646
 CDD: 9-16-93

NEUTRON INSTRUMENT

Model: PNR-4
 P/N: 4905
 CDD: 9-3-93

DISTRIBUTION:

1. RPT's TA-54 MS J592
2. RCT^S TA-3-29 MS 6749
3. _____

ANALYZED BY: David A. Barros Mike Jensen
 DATE: 8/5/93

2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

DISCARDABLE WASTE LOG SHEET

Effective Date 10/19/88

Page 1 of 1 Pages

R 0 R 0 I 0 0 5 1 1 2 8

MRSI PACKAGE SERIAL NUMBER

Proc. N-Comb Comb Pu-238

Vent. Clip or Carbon Filter installed installer's INITIAL: *CS*

Lead Lined

CONTAINER: open In-Line

Sealing Seal # A05582

90 Mil Drum Liner

Date Sealed 08-18-88

1 Mil Drum Liner

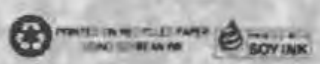
Waste Code: U/A



ITEM NO	ITEM ID	FROM DRUM/BOX	PKG WT Kg	MATERIAL (CONTENTS)	MERS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONAL	J.P.K. 5 (HL in Kg.)			P/LN	DATE mm/dd/yy
										ORGANICS USE	HAZARDOUS MATERIALS	OTHER REMARKS		
0	FT30726B	434/1EV	84.51 26.45	Waste Solution/lean	RD4	11.34 3.17	52	6.0	Smith				7/11	08/12/88
1	FT20804A	434/1EV	183.79 60.95	Waste Solution/lean	RD4	36.62	52	6.0	Smith				7/11	08/12/88
2	CAVASH08	TA-50	4.07	ASH High Fired	603	0.30	52	6.0	Smith				7/12	08/12/88
3	CAVASH04	TA-50	3.78	ASH High Fired	603	0.61	52	6.0	Smith				7/12	08/12/88
4	FT30726B	434/1EV	0.94 6.00	Waste Solution/lean	RD4	0.94 6.00	44	99.9	Smith				7/11	08/12/88
5	FT20804A	434/1EV		Waste Solution/lean	RD4	6.08	44	99.9	Smith				7/11	08/12/88
6														
7														
8														
9														
TOTALS			276.15	MST-12 signatures for Gross Weight		48.81 44.70	52			8.25 8.43				
x 2.2046 = Pkg Wt Lbs			608.80	MST-12 signatures for Accountability		7.02	44			8.43				
15 gal. drum TARE Pounds			162.80											
scale 14055 WT. Pounds			771.60											
TOTALS										8.43				
organics pounds										12.77				
DR Data Pkg. Approval										12/21/88				
MST-10 Assay Value														
Instrument ID.														
MST-10 Signature														

This container's waste was packaged and the MST-12 data on the DMS and the CWSP were collected according to procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s). MST-12 Signature Charles L. Fox

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NM0890010515	Manifest Document No. 53737	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Los Alamos National Laboratory DAVIS CHRISTENSEN TA54 MS:J595 LOS ALAMOS, NM87545			A. State Manifest Document Number		
4. Generator's Phone (505) 665-8686			B. State Generator's ID		
5. Transporter 1 Company Name LANL		6. US EPA ID Number	C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number	D. Transporter's Phone		
9. Designated Facility Name and Site Address Los Alamos National Laboratory CST-7 TA-50 Bldg.69 Los Alamos, NM 87545		10. US EPA ID Number	E. State Transporter's ID		
			F. Transporter's Phone		
			G. State Facility's ID		
			H. Facility's Phone 505-665-0652		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
a. X RQ, WASTE RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918 Solid, Elemental, AM44, PU52, 3.775e+01Ci, T.I.=0.0 RADIOACTIVE		1	890	P	
b. YELLOW II, III					
c. 241Am, 238Pu, 239Pu, 240Pu, 241Pu, 242Pu					
d. Highway Route Controlled quantity					
J. Additional Descriptions for Materials Listed Above 11a. D008			K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information *EMERGENCY PHONE NO: (505) 667-6211* 11a. ERGNO: 65			<div style="border: 1px solid black; padding: 5px; display: inline-block;"> HMTF REVIEW APPROVED <input checked="" type="checkbox"/> DISCREPANCY <input type="checkbox"/> 4/3/96 GM </div>		
			TWSR#: 53737 HMTF#: 0		
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Ron Salazar		Signature <i>Ron Salazar</i>		Month Day Year 10/4/1996	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name Ron Salazar		Signature <i>Ron Salazar</i>		Month Day Year 10/4/1996	



ORIGINAL-RETURN TO GENERATOR

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. WR87545	Manifest Document No. 93737	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Los Alamos National Laboratory DAVIS CHRISTENSEN TA54 MS-3595 LOS ALAMOS, NM87545				A. State Manifest Document Number		
4. Generator's Phone (505) 665-8686				B. State Generator's ID		
5. Transporter 1 Company Name LANL		6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address Los Alamos National Laboratory CST-1 TA-50 Bldg 69 Los Alamos, NM 87545		10. US EPA ID Number		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone 505-665-8686		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol
				No.	Type	I Waste No.
a.	* RO. WASTE RADIOACTIVE MATERIAL, FISSION, H.O.S., T. UNDESIGNED ELEMENTAL, -MIS- PUS2, 3775e+01Ci, T I -9.9 RADIOACTIVE			1		P
b.	YELLOW 20					
c.	Highly Radioactive Material					
d.						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
11a. D002						
15. Special Handling Instructions and Additional Information *EMERGENCY PHONE NO. (505) 667-6211 11a. RCNO: 65						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name <i>Davis Christensen</i>		Signature <i>Davis Christensen</i>		Month Day Year 		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year 		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year 		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name <i>Robert Holman</i>		Signature <i>Robert Holman</i>		Month Day Year 		



GENERATOR COPY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NM89188018415	Manifest Document No. 53737	2. Page 1 of 1		Information in the shaded areas is not required by Federal law.				
3. Generator's Name and Mailing Address Los Alamos National Laboratory DAVIS CHRISTENSON TA54 MS. J595 LOS ALAMOS, NM87545				A. State Manifest Document Number						
4. Generator's Phone (505) 665-6686				B. State Generator's ID						
5. Transporter 1 Company Name LANL		6. US EPA ID Number		C. State Transporter's ID						
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone						
				E. State Transporter's ID						
				F. Transporter's Phone						
9. Designated Facility Name and Site Address Los Alamos National Laboratory CST-7 TA-50 Bldg. 69 Los Alamos, NM 87545				G. State Facility's ID						
				H. Facility's Phone						
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
						No. Type				
a. ^{HM} 2. NO. WASTE RADIOACTIVE MATERIAL, FISSIONABLE, N.O.S., 7, UN2918 Solid, Elemental, AM4+ EWS, 3.775e+01Ci, T.I. = 0.0 RADIOACTIVE						1		590	P	
b. <i>TRUCK</i>										
c. <i>2400, 2306, 2307, 2308, 2309, 2310, 2311, 2312</i>										
d. <i>2400, 2306, 2307, 2308, 2309, 2310, 2311, 2312</i>										
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information *EMERGENCY PHONE NO: (505) 667-6211* 11a. BICNO: 63 TWRM: 53737 INTFR: 0										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name <i>Davis Christenson</i>						Signature <i>Davis Christenson</i>			Month Day Year 	
17. Transporter 1 Acknowledgement of Receipt of Materials										
Printed/Typed Name						Signature			Month Day Year 	
18. Transporter 2 Acknowledgement of Receipt of Materials										
Printed/Typed Name						Signature			Month Day Year 	
19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										
Printed/Typed Name <i>Davis Christenson</i>						Signature <i>Davis Christenson</i>			Month Day Year 	



FILE COPY OR STATE COPY

DRUM SURVEY SHEET

TA - 54, AREA G

LOCATION

DOME : 48

 49

 153

 283

BUILDING _____

OTHER _____

CONTAINER NUMBER: 53737

DRUM SURVEY DATE: 3/21/96

SURVEYED BY: Bill Purtymun

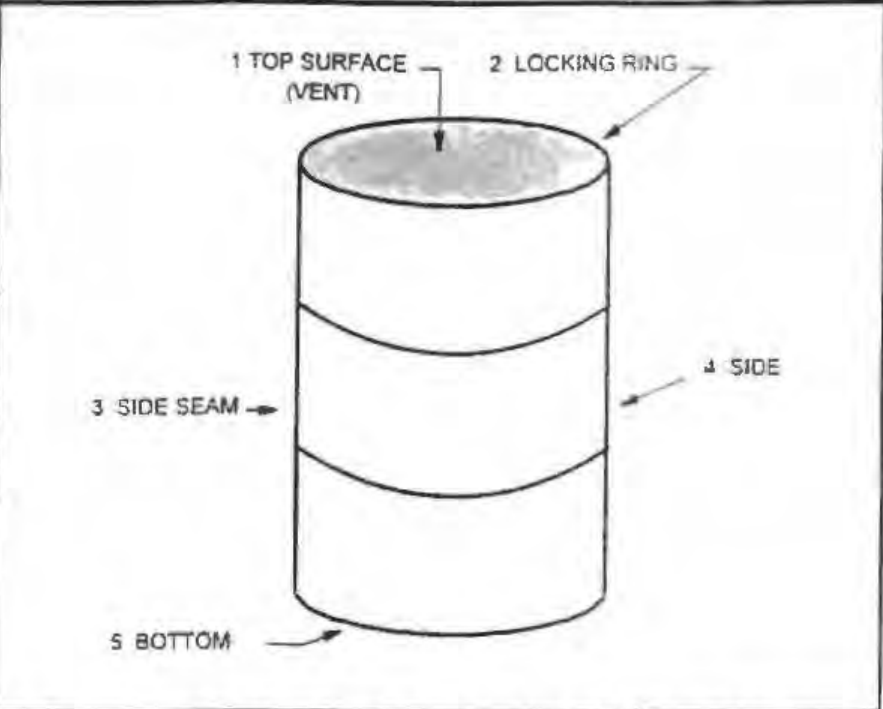
RCT: Elliott

 Russell

 Schwiner

 Menzel

Other: _____



GAMMA INSTRUMENT

MODEL: RO-2

 RO-3C

(OTHER) _____

P/N: 3408

CAL DUE DATE: 7/25/96

MAXIMUM GAMMA DOSE RATE

= 1.0 mR/hr

NEUTRON INSTRUMENT

MODEL: ESP-2/NRD

 PNR-4

(OTHER) _____

P/N: 1105

CAL DUE DATE: 7/16/96

MAXIMUM NEUTRON DOSE RATE

= 0.2 mRem/hr

SMEAR	LOCATION	ALPHA*	BETA*
1	TOP SURFACE	<u>LMDA</u>	<u>10.2</u>
2	LOCKING RING	<u>1</u>	<u>LMDA</u>
3	SIDE SEAM	<u>1</u>	<u>1</u>
4	SIDE	<u>1</u>	<u>1</u>
5	BOTTOM	<u>LMDA</u>	<u>LMDA</u>

ALPHA / BETA INSTRUMENT
 BERTHOLD LB770. P/N 844238

DISTRIBUTION:

1. RCT's TA-54 MS J592

2. _____

3. _____

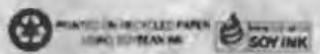
APPROVED

BILL PURTYMUN

Bill Purtymun

DATE: 3/21/96

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>NM0000010015</i>	Manifest Document No. <i>53737</i>	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <i>Los Alamos National Laboratory DAVIS CHRISTENSEN TA54 MS, J595 LOS ALAMOS, NM87545</i>				A. State Manifest Document Number		
4. Generator's Phone (<i>505</i>) <i>665-8686</i>				B. State Generator's ID		
5. Transporter 1 Company Name <i>LANI</i>		6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address <i>Los Alamos National Laboratory CST-7 TA-50 Bldg. 69 Los Alamos, NM 87545</i>		10. US EPA ID Number		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone <i>505-665-3452</i>		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol
				No.	Type	Waste No.
a. <i>NO. WASTE RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918 Solid, Elemental, M44, BU52, 3.775e+01Ci, T.I.-0.0 RADIOACTIVE</i>				<i>1</i>		<i>898</i>
b. <i>YELLOW III</i>						
c. <i>Zylon, 230g, 130%, 240g, 240g, 240g</i>						
d. <i>Highway Route (contained quantity)</i>						
J. Additional Descriptions for Materials Listed Above <i>11a. 0000</i>				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information <i>*EMERGENCY PHONE NO. (505) 667-6211*</i> <i>11a. ER-NO: 65</i>						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name <i>Don Salazar</i>			Signature <i>Don Salazar</i>		Month Day Year <i>04/04/96</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials			Printed/Typed Name <i>J.J. Lujan</i>		Signature <i>J.J. Lujan</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials			Printed/Typed Name		Signature	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name <i>Don Christensen</i>			Signature <i>Don Christensen</i>		Month Day Year <i>07/23/96</i>	



TSD/ COPY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MS890010519		Manifest Document No. 59737		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.						
		3. Generator's Name and Mailing Address RONALD G SALAZAR Los Alamos National Laboratory TASO BLDG. 69 MS Los Alamos NM 87545						A. State Manifest Document Number		B. State Generator's ID				
4. Generator's Phone (805) 65-						5. Transporter 1 Company Name LANT		6. US EPA ID Number		C. State Transporter's ID				
7. Transporter 2 Company Name						8. US EPA ID Number		D. Transporter's Phone		E. State Transporter's ID				
9. Designated Facility Name and Site Address Los Alamos National Laboratory DAVIS V CHRISTENSEN TAS4 AREA G Los Alamos NM 87545						10. US EPA ID Number		F. Transporter's Phone		G. State Facility's ID				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol				
						No. Type				Waste No.				
a. K 00, WASTE RADIOACTIVE MATERIAL, FISSIONABLE, N.O.S., 7, UN3918, HIGHWAY ROUTE CONTROLLED QUANTITY Solid, Elemental, AM44, T0327						1		890		P				
b. 3.77E+01Ci, T-1, 0.0 RADIOACTIVE YELLOW III, 00000, 14292, T0327, 70 291, 1000, 21792														
c.														
d.														
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above								
15. Special Handling Instructions and Additional Information *EMERGENCY PHONE NO: (805) 687-6211* 11A. EIMNO: /65						TMSR0: 59737 HMTF0: 19263								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.														
Printed/Typed Name						Signature			Month Day Year					
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name			Signature			Month Day Year		
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name			Signature			Month Day Year		
19. Discrepancy Indication Space														
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.														
Printed/Typed Name						Signature			Month Day Year					



Los Alamos
NATIONAL LABORATORY

53737

Environmental Management
Environmental Stewardship Program
EM-3501
Los Alamos, New Mexico 87545
(505) 867-8838
FAX (505) 865-8118

Date: October 2, 1996
Re: EM/ES:96-253

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: a/s

TS:lma

WASTE PROFILE I

TRU 006

LA53737



LA53737

EM-8 USE ONLY

Reference Number

04636

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490

Division/Group NMT / NMT-2	Telephone 7-1193	Mail Stop E501	Technical Area SS	Building PF-114	Room 206
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Method of Characterization

Knowledge of Process (KOP) Chemical/Physical Analysis (specify below)

MSDS attached (optional) • OR • Request for analysis Analysis attached

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Non-salvageable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgical	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)

TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 135°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

<p>Waste Origination</p> <p>A. Is this waste generated in a radiation controlled area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form</p>	<p>Radioactivity</p> <p><input type="checkbox"/> Nonradioactive <input type="checkbox"/> Suspect <input checked="" type="checkbox"/> Radioactive</p> <table border="0"> <tr> <td>Activity Measure</td> <td>Radiation Type</td> <td>Half-life</td> </tr> <tr> <td><input type="checkbox"/> ≤ 2.0 nCi/g</td> <td><input checked="" type="checkbox"/> alpha</td> <td><input type="checkbox"/> 1st < 20 yr</td> </tr> <tr> <td><input type="checkbox"/> > 2.0 nCi/g</td> <td><input checked="" type="checkbox"/> beta</td> <td><input checked="" type="checkbox"/> 1st ≥ 20 yr</td> </tr> <tr> <td><input type="checkbox"/> > 10.0 nCi/g</td> <td><input checked="" type="checkbox"/> gamma</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> > 100 nCi/g</td> <td><input type="checkbox"/> Tritium</td> <td></td> </tr> </table>	Activity Measure	Radiation Type	Half-life	<input type="checkbox"/> ≤ 2.0 nCi/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> 1 st < 20 yr	<input type="checkbox"/> > 2.0 nCi/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> 1 st ≥ 20 yr	<input type="checkbox"/> > 10.0 nCi/g	<input checked="" type="checkbox"/> gamma		<input checked="" type="checkbox"/> > 100 nCi/g	<input type="checkbox"/> Tritium	
Activity Measure	Radiation Type	Half-life														
<input type="checkbox"/> ≤ 2.0 nCi/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> 1 st < 20 yr														
<input type="checkbox"/> > 2.0 nCi/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> 1 st ≥ 20 yr														
<input type="checkbox"/> > 10.0 nCi/g	<input checked="" type="checkbox"/> gamma															
<input checked="" type="checkbox"/> > 100 nCi/g	<input type="checkbox"/> Tritium															

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) Schueler, William T.	Z Number 106374	Signature William Schueler	Date 10/14/92
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If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). -->	Name (last, first, middle)	Mail Stop
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Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-601A
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-6020(m)
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-601A
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 8.0 ppm	<input type="checkbox"/> ≥ 8.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
cresol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹ Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

Waste Classification

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Non-RCRA waste | <input type="checkbox"/> RCRA-regulated solid waste | <input checked="" type="checkbox"/> RCRA-regulated hazardous waste | <input type="checkbox"/> Radioactive only |
| <input type="checkbox"/> PCB | <input type="checkbox"/> municipal refuse | <input type="checkbox"/> hazardous waste | <input type="checkbox"/> low-level waste |
| <input type="checkbox"/> non-PCB TSCA waste | <input type="checkbox"/> nonhazardous chemical waste | <input type="checkbox"/> mixed low-level waste | <input type="checkbox"/> transuranic waste |
| <input type="checkbox"/> asbestos | <input type="checkbox"/> administratively controlled waste | <input checked="" type="checkbox"/> mixed transuranic waste | |
| | <input type="checkbox"/> sanitary/industrial sludges | | |

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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EM-8 Reviewer's Signature <i>Flanagan</i>	Date 10/14/92	Cost Center/Program Code for Analysis	Reference Number 04636
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CONTAINER PROFILE

53737

T-MTRU-TEMP

WS ID: 28588
C ID: 762110
ACTIVE

GENERAL INFORMATION

Container ID:	762110	
Labeled ID:	53737	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28588	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 05-Aug-1993 12:00 am
Quantity (Univ):		Accum Start Date: 05-Aug-1993
Compactible:		Closed Date: 05-Aug-1993
Discard Matrix:		
TID(s):		
Gen Contact:		
Insert By:	WCATS APPLICATION (000000)	
Waste Desc:	(LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.	

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	890.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	63.00 lb
		Net Weight:	827.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000153: C085: L01: R07



CONTAINER PROFILE
53737
T-MTRU-TEMP

WS ID: 28588
 C ID: 762110
 ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____
Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA126A: SOLIDIFIED ORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-41: CEMENTED ORGANICS
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M1
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	79		0/0
Not Specified	NA	Carbon Composite	0	3958		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53737
T-MTRU-TEMP

WS ID: 28588
C ID: 762110
ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 72676, Status: Active</i>							
B/G Survey			= 1.00	=	=		Not Applicable
Neutron Survey			= 0.50	=	=		Not Applicable
Smear Results				Not Applicable		= 1.20	= 9.20

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 336597, Date: 08/05/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	7.02E+000	g	0.00E+000	N				NONE
52	4.89E+001	g	0.00E+000	N				NONE
Am-241	2.41E+001	Ci	0.00E+000	Y			Y	
Pu-238	8.37E-002	Ci	0.00E+000	Y			Y	
Pu-239	2.84E+000	Ci	0.00E+000	Y			Y	
Pu-240	6.66E-001	Ci	0.00E+000	Y			Y	
Pu-241	1.01E+001	Ci	0.00E+000	Y			Y	
Pu-242	3.85E-005	Ci	0.00E+000	Y			Y	
U-234	6.09E-006	Ci	0.00E+000	Y			Y	
U-235	1.06E-007	Ci	0.00E+000	Y			Y	

53747



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code <i>NML0146AG</i>	Inspected Items		
Year of Manufacture <i>1913</i>	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number <i>N/A</i>	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	Printed Name <i>Steven G.iego</i>	Date <i>7/29/93</i>	
	Signature <i>Steven G.iego</i>		

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	Group <i>NMT-2</i>	Technical Area <i>TA-55</i>	Building <i>PF4</i>	Program Code <i>K567</i>						
Additional Information <i>55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM</i>										
<i>TID #BZ0058</i>										
CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT						
		Type	Thickness (in.)	Nuclide	Amount ±		Uncertainty ±		Comps. Ms/Gram	
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None								
02	<input type="checkbox"/> Standard Waste Box			<i>P145121</i>	<i>5.01511</i>	<i>E +11</i>	<i>.11</i>	<i>E</i>	<i>M</i>	
03	<input checked="" type="checkbox"/> Other (Cat #100)	<i>LEAD</i>	<i>6.3 E-12</i>	<i>AM14141</i>	<i>1.21610</i>	<i>E +10</i>	<i>.11</i>	<i>E</i>	<i>M</i>	
04	<input type="checkbox"/> RH Canister									
Waste Profile Request Number		<i>04636</i>								
Carbon Filter ID		<i>01 LA14111712</i>	<i>02 LA14101619</i>							
Process Batch Code		<i>N/A</i>								
Gross Weight (lb)		<i>16.517 E-12</i>		NONRADIOACTIVE HAZARDOUS MATERIALS						
Organic Material Wt. (lb)		<i>14.619 E-10</i>		Name		EPA Code	Quantity (g)			
Organic Material Volume (L)		<i>1110</i>		<i>LEAD SHIELDING</i>		<i>D008</i>	<i>3.8 E+14</i>			
TRUCON Code		<i>111A1A</i>		<i>CADMIUM</i>		<i>D006</i>	<i>2.1 E+0</i>			
Date Closed (MMDDYY)		<i>07/29/93</i>	<i>01/01/87</i>	<i>CHROMIUM</i>		<i>D007</i>	<i>8.3 E+1</i>			
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. The data are correct and complete to the best of my knowledge.				<i>LEAD</i>		<i>D008</i>	<i>2.2 E+1</i>			
Printed Name <i>Kathleen M. Gruetzmacher</i>		Signature <i>KM Gruetzmacher</i>				Date <i>8/5/93</i>				

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	<i>6.0 E-1</i>	Survey Meter Model <i>RO-3C</i>	Property Number <i>2646</i>
Neutron Dose Rate (mrem/h)	<i>2.0 E-1</i>	Survey Meter Model <i>PNR-4</i>	Property Number <i>4909</i>
Total Dose Rate (mrem/h)	<i>8.0 E-1</i>	The data in this section were collected according to approved procedures.	
Alpha Contamination (dpm/100cm ²)	<i>0.0 E+0</i>	Printed Name <i>RJ Cox</i>	Date <i>8/14/93</i>
Beta Gamma Cont. (dpm/100cm ²)	<i>0.0 E+0</i>	Signature <i>RJ Cox</i>	

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA 54 by AR 10.5 <i>06/31/93</i>	Printed Name <i>R.G. Britton</i>	Date <i>8-6-93</i>
	Signature <i>R.G. Britton</i>	

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	018 113 913	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	09 01 93	Printed Name	ARRI Winkler	Signature	Arri Winkler

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name	GENE E. LOPEZ	Signature	Gene E. Lopez	Date	8/23/93
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7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	4.0 E - 1	Survey Meter Model	RO3C	Property Number	2605
Neutron Dose Rate (mrem/h)	12.0 E - 1	Survey Meter Model	PNR4	Property Number	5229
Total Dose Rate (mrem/h)	16.0 E - 1	The data in this section were collected according to approved procedures.			
Alpha Contamination (cpm/100cm ²)	10.9 E 10	Printed Name	J.T. Miller	Date	8-27-93
Beta Gamma Cont. (cpm/100cm ²)	18.2 E 10	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Rm	Date Received	8-25-93	ORIGINAL STORAGE DATA					
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Pack Number	153	Layer	2	Row Number	1
				Column Number	17	Date Stacked (MM,DD,YY)	10/8/30/93		
Printed Name	Rick Martinez	Date	8-25-93	Printed Name	Charlotte Fernandez	Date	9/18/93		
Signature	Rick Martinez			Signature	Charlotte Fernandez				

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.			Printed Name	BRUCE LE BRUN	Date	9/12/93
			Signature	Bruce Le Brun		

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	019 113 913	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	09 13 93	Printed Name	ARRI WINKLER	Signature	Arri Winkler

12. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	1 11 19 93	Printed Name	James Sandover	Signature	James Sandover
----------------------	------------------	--------------	----------------	-----------	----------------

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

CERTIFIED WASTE STORAGE RECORD



WASTE PACKAGE SERIAL NUMBER
LA 87010050541

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE		ADDITIONAL INFORMATION				
Group	MST-12	Neutrons mem/hr 0.2				
TA	55					
Building	PF-4					
Room	401	Neutrons dose rate 0.2 mR/hr ⁹¹				
TRU CERTIFIABLE						
CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT		C - Curie G - Gram
				Nuclide	Amount	
01	<input checked="" type="checkbox"/> Steel Drum (55 gal.)	Type	Thickness (in.)			
02	<input type="checkbox"/> Steel Overpack (Drums)					
03	<input type="checkbox"/> Steel Box (88 in. X 54 in. X 38.5 in.)	<input type="checkbox"/> None		Pu-239	5251	1 M
04	<input type="checkbox"/> Steel Overpack (FRP Box)	<input type="checkbox"/> Lead	6.3	Pu-239	1.260	10 M
	<input type="checkbox"/> Other (Describe)	<input type="checkbox"/> Steel				
		<input type="checkbox"/> Concrete				
		<input type="checkbox"/> Other				
Drum Lot Code	121	Year of Mfr	816			
Manufacturer's Box Serial Number				HAZARDOUS MATERIALS		
Process Batch Code	Name		EPA Code	Quantity (g)		
Gross Wt. (lb.)	15.319	Lead	D401.8	3.31E+4		
Organic Mat Wt. (lb.)	4.619					
Organic Mat Vol (%)	1.1					
Content Code	10016					
Date Closed (MMDDYY)	09/16/87					

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name Chester A Smith Jr	Signature <i>Chester A Smith Jr</i>	Date 09/16/87
------------------------------------	--	------------------

II. GENERATOR-SITE HEALTH PHYSICS INFORMATION

Surface Dose Rate (mrem/h)	1.2	The data in this section were collected as prescribed in approved procedures. The package is properly closed and is safe to handle and transport.
Survey Meter Model	LUD-139, RO-3C, PNR-4	
Survey Meter Serial No.	003504, 002660, 004917	
Alpha Contamination (dpm/100cm ²)	0.0	Printed Name Lou Williams
Beta-Gamma Cont. (dpm/100cm ²)	1.4	Signature <i>Lou Williams</i>
		Date 10-27-87

III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-2.	Printed Name ARTHUR GUTHRIE	Date 8/11/06
	Signature <i>Arthur Guthrie</i>	

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Surface Dose Rate (mrem/h)	1.2	The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.
Survey Meter Model	PNR-4, PIC-6A	
Survey Meter Serial No.	005230, 003060	
Alpha Contamination (dpm/100cm ²)	1.3	Printed Name J. VILLAREAL
Beta-Gamma Cont. (dpm/100cm ²)	2.4	Signature <i>J. Villareal</i>
		Date 12-4-87

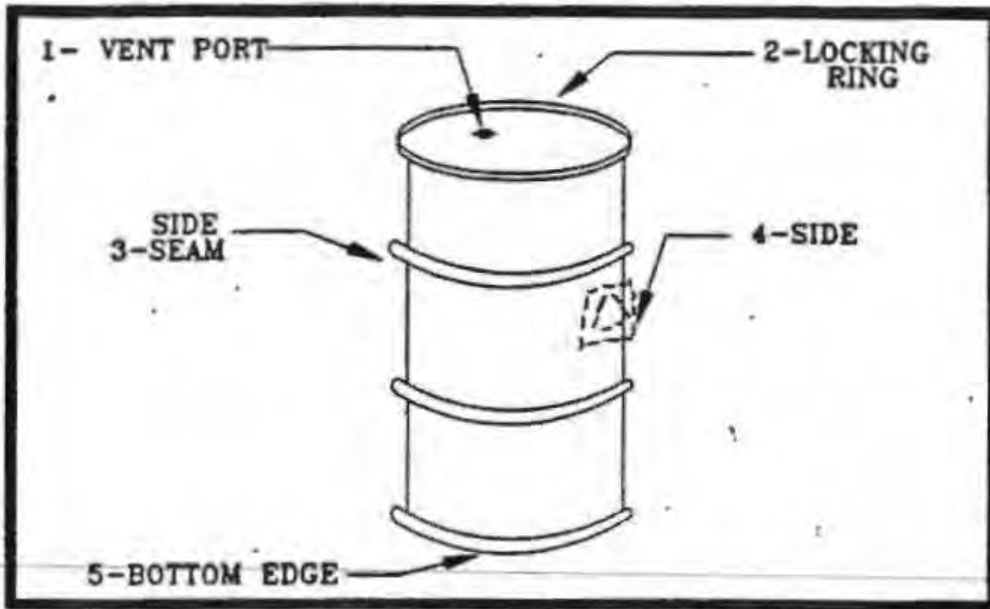
V. STORAGE SITE INFORMATION

This package was visually inspected when received and was found to be properly labeled and in good condition. It was accepted according to approved procedures.	Printed Name D.K. BTR	Date	Printed Name ROSITA F. GARCIA	Date 12/9/87
	Signature <i>D.K. BTR</i>		Signature <i>Rosita F. Garcia</i>	
	This waste package was stored at this location according to approved procedures.			

TRU CONTAINER SMEAR SURVEY DATA SHEET

MAILED
MAILED

TA 3 BUILDING 29 SAMPLE DATE 7-29-93 AUG 04 1993
 RPT R-COX CONTAINER NO. LA00000053747



△ Maximum Gamma Dose Rate 0.6 mR/hr.
 □ Maximum Neutron Dose Rate 0.2 mRem/hr.

SMEAR NO.	LOCATION	*ALPHA	*BETA-GAMMA
1	VENT PORT	NDA	NDA
2	LOCKING RING	↓	↓
3	SIDE SEAM	↓	↓
4	SIDE	↓	↓
5	BOTTOM EDGE	↓	↓

GAMMA INSTRUMENT
 Model: RO-3C
 P/N: 2646
 CDD: 9-16-93

NEUTRON INSTRUMENT
 Model: ESP+PNR-4
 P/N: 8006 4909
 CDD: 9-22-93

*dpm/100cm. sq.

DISTRIBUTION:

1. RPT's TA-54 MS J592
2. RCT's TA-3 CMR MS G749
3. _____

ANALYZED BY: Ralph Vigil
 DATE: 8-3-93

2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

TRU WASTE CERTIFICATION PROGRAM
NON-CONFORMANCE REPORT

Log No. 00044

ORIGINATOR'S SECTION

Location: TA-50 Hold Tag No.: N/A

Waste Pkg. Serial No: LA870050541 & 825

Description of Non-Conformance:
The receiving statement in section II of the CWSR's are not signat-off.

Print Name: BRUCE T. REICH Signature: *Bruce T. Reich* Date: 02/10/88

DISPOSITION SECTION

Instructions for Disposition:
*Notify Miguel that this has occurred.
No further action is required because the drums are already stacked
and they will receive another visual inspection before they are shipped
to the WIPP.*

Print Name: BRUCE T. REICH Signature: *Bruce T. Reich* Date: 02/10/88

The above instructions have been completed as specified.

Printed Name: BRUCE T. REICH Signature: *Bruce T. Reich* Date: 02/10/88

DISCARDABLE WASTE LOG SHEET

Effective Date 05/01/01

LA 87010250541

WASTE PACKAGE SERIAL NUMBER

Proc.
 N-Comb
 Comb
 Pu-238

Page 1 of Page 1

Lead Lined
 90 Mil Drua Liner
 1/8 Inch Drua Liner

CONTAINER:
 open In-Line

Tamper Indicating Seal # A04367

Date Sealed 09/08/87

Waste Code: NA

ITH NO	ITEM ID	FROM RM or BOX	PKG WT Kg	MATRIX (MATERIAL)	MERS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONNEL SIGNATURE	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy
										ORGANICS %	HAZARDOUS MATERIALS	OTHER		
0	SLR24EF1B	434 6468	35.19	Filterate	R00	5.76	52.6		Smith				11	09/08/87
1	SDS25EF1A	434 6467	139.20	Filterate	R00	18.25	52.6		Smith				11	09/08/87
2	LRAIR-30	401 6466	3.40	High Speed ASH	F02	16.59	52.6		Smith				112	09/08/87
3	LRAIR-29	401 6466	2.98	High Speed ASH	G02	9.91	52.6		Smith				112	09/08/87
4	CHMAD-1	265 6223	0.19	Sanched Solids	W03	0.98	52.6		Smith				113	09/08/87
5	SLR24EF1B	434 6468	.	Filterate	R00	0.31	44	99.9	Smith				3	09/08/87
6	SDS25EF1A	434 6467	.	Filterate	R00	0.75	44	99.9	Smith				5	09/08/87
7			.										1	1 1
8			.										1	1 1
9			.							R.2	2.13	Packaging	1	1 1
TOTALS			Kg	195.96		51.51	52.6		TOTALS	2.2	2.13	MST-10 Assay Value	NA	
			Pounds	387.9	MST-12 Signature for Gross Weight	1.26	44		Mst-12 Signature for Accountability check	MST-10 Signature Ronald W. Hunkeler				
GROSS WT.			Pounds	538.8						OR Data Pkg Approval A. B. To Brown				

The waste in this container was packaged and the MST-12 data on the DMS and the CCSR were collected according to the procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s).

MST-12 Signature Charles L. Fox

05-2-231/0239A

53747

Los Alamos

NATIONAL LABORATORY

Environmental Management
Environmental Stewardship Program
EM JS91
Los Alamos, New Mexico 87545
(505) 667-6839
FAX (505) 665-8118

Date: October 2, 1996
Reference: EM/ES-96-253

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: w/s

TS:lma

Stan Bodenstein, CS, 02:03 PM 12/10/96, Last Dewatering Drum Shipment

Return-Path: < bodenstein@lanl.gov >
X-Sender: sab@wm0.lanl.gov
Date: Tue, 10 Dec 1996 14:03:28 -0700
To: aic@lanl.gov
From: "Stan Bodenstein, CST-7, 5-8462" < bodenstein@lanl.gov >
Subject: Last Dewatering Drum Shipment to TA-54
Cc: dvc@lanl.gov, Triay@lanl.gov, jrh@lanl.gov, shelmick@lanl.gov,
grand@lanl.gov, jbalkey@lanl.gov, ronwieneke@lanl.gov,
kgruetzmacher@lanl.gov, bodenstein@lanl.gov, pzs@lanl.gov,
gavett@lanl.gov, sowers@lanl.gov, sgw@lanl.gov

I-LI,

The following is the last drum shipment involved with the drum dewatering project. This shipment is scheduled to happen next Tuesday, 12/17/96 at 9am. All drums are being returned WITHOUT overpacks except the 4 noted. One overpacked drum was not opened. As explained on the last shipment, some drums may weight slightly more that when received. This is due to the addition of some decon materials used during the individual drum draining operation. Please update the database to reflect the changes.

Drum	Rcvd	Ship	Weights	General Comments
52030	N/A	N/A		Drum not opened, in overpack
52131	813.2	808.4		
52163	823.4	808.2		Lid rusted & Replaced
52166	821.6	809.2		Poor, overpacked
52167	867.2	867.6		
52171	832.0	830.6		
52177	863.2	841.0		Rusty, overpacked
52186	857.0	845.2		
52567	848.2	848.6		
52601	818.2	805.4		Rusted lid, replaced
52603	815.8	814.2		
53707	520.4	515.4		
53713	565.8	552.0		
53724	514.2	513.0		
53742	817.8	818.2		
53743	816.6	816.8		
53747	539.6	538.4		
53754	545.0	542.4		Rusted, overpacked
53756	556.2	548.0		
53765	558.6	554.6		
53766	557.6	553.6		
53779	804.4	804.4		
53792	551.6	538.4		
53793	568.0	563.0		
53800	500.8	500.8		
53819	553.0	538.0		
53823	534.6	534.4		
53825	528.4	522.6		
53831	548.4	544.0		
53839	534.6	531.2		
54000	826.0	826.4		
54018	778.8	776.6		

Printed for "I-LI Chen ,CST-14 , 5-6422" < aic@lanl.gov >

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Los Alamos National Laboratory				A. State Manifest Document Number		
4. Generator's Phone ()				B. State Generator's ID		
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address Los Alamos National Laboratory Mesita Del Buey Rd, TA-54 Los Alamos, NM 87545		10. US EPA ID Number		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol
				No.		
				Type		
a. RO, RADIOACTIVE MATERIAL, FISSILE, N.O.S., UN29185, Solid, Elemental, AM241, PU238, PU239, PU240, PU241, PU242, 1.845e+01Ci, RADIOACTIVE WHITE 1,				1	657	
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information *EMERGENCY PHONE NO: (505) 667-6211 31s: ERGNO: 169				1112-16-96-126		
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name		Signature		Month Day Year		
Ronald A. Salazar		Ronald A. Salazar		12/7/11		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
Diana Watson		Diana Watson		12/7/11		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Month Day Year		
H. Salazar		H. Salazar		12/7/11		



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address Los Alamos National Laboratory				A. State Manifest Document Number			
4. Generator's Phone ()				B. State Generator's ID			
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address Los Alamos National Laboratory Mesa Del Buey Rd. TA-54 Los Alamos, NM 87545		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility's ID			
				H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
				Type			
a. ^{WHITE} PO RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918 Solid, Elemental, AM241, PU238, PU239, PU240, PU241, PU242, 1.846e+01Ci, RADIOACTIVE WHITE I,				1	557		
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above 110 0000 12/10/96				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information "EMERGENCY PHONE NO: (505) 657-6211" 11a. ERGNO: 165 <i>Food Cases required</i> 11/2-16-96-16 TMS98: 93747 100778							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name		Signature		Month Day Year			
Ronald A Salazar		<i>Ronald Salazar</i>		12/17/96			
Printed/Typed Name		Signature		Month Day Year			
<i>Michael Salazar</i>		<i>Michael Salazar</i>		12/17/96			
Printed/Typed Name		Signature		Month Day Year			
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name		Signature		Month Day Year			
Rick Martinez		<i>Rick Martinez</i>		12/17/96			



TSDf COPY

DRUM SURVEY SHEET TA-50-69, WCRRF

<p>ROOM: LOCATION</p> <p>102 <input checked="" type="checkbox"/></p> <p>103 <input type="checkbox"/></p> <p>104 <input type="checkbox"/></p> <p>50-193</p> <p>BUILDING OTHER: <u>69</u></p>	<p>CONTAINER NUMBER: <u>53747</u></p> <p>DRUM SURVEY DATE: <u>11/19/96</u></p> <p>SURVEYED BY: <u>James</u> (Signature)</p>																								
<p>RCT: SALAZAR <input type="checkbox"/></p> <p>AULT <input checked="" type="checkbox"/></p> <p>SANCHEZ <input checked="" type="checkbox"/></p> <p>OTHER: _____</p>																									
<p>GAMMA INSTRUMENT MODEL: RO-2 <input type="checkbox"/></p> <p>RO-3C <input type="checkbox"/></p> <p>(OTHER) <u>RO-20</u></p> <p>P/N: <u>10047</u></p> <p>CAL DUE DATE: <u>3/24/97</u></p> <p>MAXIMUM GAMMA DOSE RATE</p> <p>Δ CONTACT <u>0.1</u> mR/hr</p> <p>1-METER <u>0</u> mR/hr</p>																									
<p>NEUTRON INSTRUMENT MODEL: <u>ESP-2/NRD</u> DND.A</p> <p>(OTHER) _____</p> <p>P/N: <u>8031</u></p> <p>CAL DUE DATE: <u>1/29/97</u></p> <p>MAXIMUM NEUTRON DOSE RATE</p> <p><input type="checkbox"/></p> <p>CONTACT <u>0.4</u> mRem/hr</p> <p>1-METER <u>0</u> mRem/hr</p>																									
<p style="text-align: center;">DISTRIBUTION</p> <p>1. RCT's TA-50 MS E516</p> <p>2. _____</p> <p>3. _____</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SMEAR</th> <th>LOCATION</th> <th>ALPHA</th> <th>BETA*</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>TOP SURFACE</td> <td><u>6.34</u></td> <td><u>3.20</u></td> </tr> <tr> <td>2</td> <td>LOCKING RING</td> <td><u>0.000</u></td> <td><u>3.71</u></td> </tr> <tr> <td>3</td> <td>SIDE SEAM</td> <td><u>7.39</u></td> <td><u>0.000</u></td> </tr> <tr> <td>4</td> <td>SIDE</td> <td><u>0.000</u></td> <td><u>2.17</u></td> </tr> <tr> <td>5</td> <td>BOTTOM</td> <td><u>0.897</u></td> <td><u>2.72</u></td> </tr> </tbody> </table> <p>ALPHA/BETA INSTRUMENT BERTHOLD LB770, P/N 844236</p> <p>APPROVED Bobby Gonzales</p> <p>DATE: <u> / / </u></p>	SMEAR	LOCATION	ALPHA	BETA*	1	TOP SURFACE	<u>6.34</u>	<u>3.20</u>	2	LOCKING RING	<u>0.000</u>	<u>3.71</u>	3	SIDE SEAM	<u>7.39</u>	<u>0.000</u>	4	SIDE	<u>0.000</u>	<u>2.17</u>	5	BOTTOM	<u>0.897</u>	<u>2.72</u>
SMEAR	LOCATION	ALPHA	BETA*																						
1	TOP SURFACE	<u>6.34</u>	<u>3.20</u>																						
2	LOCKING RING	<u>0.000</u>	<u>3.71</u>																						
3	SIDE SEAM	<u>7.39</u>	<u>0.000</u>																						
4	SIDE	<u>0.000</u>	<u>2.17</u>																						
5	BOTTOM	<u>0.897</u>	<u>2.72</u>																						

WASTE PROFILE F

TRU 006

LA53747



LA53747

EM-8 USE ONLY

Reference Number

C4636

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490

Division/Group NMT / NMT-2	Telephone 7-1193	Mail Stop E501	Technical Area SS	Building PF-114	Room 206
-------------------------------	---------------------	-------------------	----------------------	--------------------	-------------

Method of Characterization

Knowledge of Process (KOP) - OR - Chemical/Physical Analysis (specify below)

MSDS attached (optional) Request for analysis Analysis attached

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Nonsalvageable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgic	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)

TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 135°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

<p>Waste Origination</p> <p>A. Is this waste generated in a radiation controlled area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.</p>	<p>Radioactivity</p> <p><input type="checkbox"/> Nonradioactive <input type="checkbox"/> Suspect <input checked="" type="checkbox"/> Radioactive</p> <p>Activity Measure: <input type="checkbox"/> ≤ 2.0 nC/g <input type="checkbox"/> > 2.0 nC/g <input type="checkbox"/> > 10.0 nC/g <input checked="" type="checkbox"/> > 100 nC/g</p> <p>Radiation Type: <input checked="" type="checkbox"/> alpha <input checked="" type="checkbox"/> beta <input checked="" type="checkbox"/> gamma <input type="checkbox"/> tritium</p> <p>Half-life: <input type="checkbox"/> t^{1/2} < 20 yr <input checked="" type="checkbox"/> t^{1/2} ≥ 20 yr</p>
---	---

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) Schueler, William T.	Z Number 106374	Signature William Schueler	Date 10/14/92
If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). -->		Name (last, first, middle)	Mail Stop

Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-601CA
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-6020(mol)
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-601CA
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 6.0 ppm	<input type="checkbox"/> ≥ 6.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
cresol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.00 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

Waste Classification

Non-RCRA waste RCRA-regulated solid waste RCRA-regulated hazardous waste Radioactive only

PCB municipal refuse hazardous waste low-level waste

non-PCB TSCA waste nonhazardous chemical waste mixed low-level waste transuranic waste

asbestos administratively controlled waste mixed transuranic waste

sanitary/industrial sludges

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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EM-8 Reviewer's Signature: *[Signature]* Date: 10/14/92 Cost Center/Program Code for Analysis: Reference Number: 04636




CONTAINER PROFILE

53747

T-MTRU-TEMP

WS ID: 28588
C ID: 761859
ACTIVE

GENERAL INFORMATION

Container ID: 761859	
Labeled ID: 53747	
Optional ID:	Status: ACTIVE
Chemical Barcode:	Decommissioned: NO
Physical State: SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID: 28588	Container Subtype: 85-gallon steel drum
Work Path: T-MTRU-TEMP	Origin Date: 29-Jul-1993 12:00 am
Quantity (Univ):	Accum Start Date: 29-Jul-1993
Compactible:	Closed Date: 29-Jul-1993
Discard Matrix:	
TID(s):	
Gen Contact:	
Insert By: WCATS APPLICATION (000000)	
Waste Desc: (LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.	

WEIGHTS AND VOLUMES

Container Volume: 0.32 CM	Gross Weight: 620.00 lb
Waste Volume: NOT SPECIFIED	Tare Weight: 82.00 lb
	Net Weight: 478.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000153: C005: L01: R01



CONTAINER PROFILE
53747
T-MTRU-TEMP

WS ID: 28588
C ID: 761859
ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____
Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	4172		0/0
Not Specified	NA	Carbon Composite	0	4069		0/0
Not Specified	NA	NA	0	HK-1523		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53747
T-MTRU-TEMP

WS ID: 28588
 C ID: 761859
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 72338, Status: Active</i>							
B/G Survey			= 0.40	=	=	Not Applicable	
Neutron Survey			= 0.20	=	=	Not Applicable	
Smear Results			Not Applicable			= 0.00	= 8.20

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 336217, Date: 07/29/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	1.26E+000	g	0.00E+000	N				NONE
52	5.05E+001	g	0.00E+000	N				NONE
Am-241	4.33E+000	Ci	0.00E+000	Y			Y	
Pu-238	8.66E-002	Ci	0.00E+000	Y			Y	
Pu-239	2.94E+000	Ci	0.00E+000	Y			Y	
Pu-240	6.88E-001	Ci	0.00E+000	Y			Y	
Pu-241	1.04E+001	Ci	0.00E+000	Y			Y	
Pu-242	3.98E-005	Ci	0.00E+000	Y			Y	
U-234	6.29E-006	Ci	0.00E+000	Y			Y	
U-235	1.09E-007	Ci	0.00E+000	Y			Y	

53749



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code <i>Nml D086A26</i>	Inspected Items		
Year of Manufacture <i>1993</i>	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number <i>N/A</i>	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	Printed Name <i>Steven Griego</i>	Date <i>7/29/93</i>	
	Signature <i>Steven Griego</i>		

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE Group <i>NMT-2</i>	Technical Area <i>TA-55</i>	Building <i>PF4</i>	Program Code <i>K567</i>																
Additional Information <i>55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM</i>																			
<i>TID #B20056</i>																			
CODE	CONTAINER	INTERNAL SHIELDING	RADIONUCLIDE CONTENT																
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None	<table border="1"> <thead> <tr> <th>Nuclide</th> <th>Amount ±</th> <th>Uncertainty ±</th> <th>C=Curie M=Gram</th> </tr> </thead> <tbody> <tr> <td><i>Pu-239</i></td> <td><i>2.01819</i></td> <td><i>E ± 11</i></td> <td><i>M</i></td> </tr> <tr> <td><i>Am-241</i></td> <td><i>7.11810</i></td> <td><i>E ± 10</i></td> <td><i>M</i></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Nuclide	Amount ±	Uncertainty ±	C=Curie M=Gram	<i>Pu-239</i>	<i>2.01819</i>	<i>E ± 11</i>	<i>M</i>	<i>Am-241</i>	<i>7.11810</i>	<i>E ± 10</i>	<i>M</i>				
Nuclide	Amount ±	Uncertainty ±		C=Curie M=Gram															
<i>Pu-239</i>	<i>2.01819</i>	<i>E ± 11</i>		<i>M</i>															
<i>Am-241</i>	<i>7.11810</i>	<i>E ± 10</i>		<i>M</i>															
02	<input type="checkbox"/> Standard Waste Box	Type	Thickness (in.)																
03	<input checked="" type="checkbox"/> Other (Call TWCO)	<i>LEAD</i>	<i>6.3 E-12</i>																
04	<input type="checkbox"/> RH Canister																		
Waste Profile Request Number <i>04636</i>																			
Carbon Filter ID <i>01 4/11/218 02 4/13/174</i>																			
Process Batch Code <i>N/A</i>																			
Gross Weight (lb.) <i>16.53 E-12</i>		NONRADIOACTIVE HAZARDOUS MATERIALS																	
Organic Material Wt. (lb.) <i>1.315 E-11</i>		Name	EPA Code Quantity (g)																
Organic Material Volume (cc) <i>110</i>		<i>LEAD SHIELDING</i>	<i>D008 3.8 E ± 14</i>																
TRUCON Code <i>11141A</i>		<i>CADMIUM</i>	<i>D006 1.8 E ± 10</i>																
Date Closed (MMDDYY) <i>07/29/93</i>		<i>CHROMIUM</i>	<i>D007 7.2 E ± 11</i>																
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. The data are correct and complete to the best of my knowledge.																			
Printed Name <i>Kathleen M. Gruetzmacher</i>		Signature <i>KM Gruetzmacher</i>	Date <i>8/5/93</i>																

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) <i>1.6 E ± 10</i>	Survey Meter Model <i>RO-3C</i>	Property Number <i>2646</i>
Neutron Dose Rate (mrem/h) <i>2.0 E - 1</i>	Survey Meter Model <i>PNR-4</i>	Property Number <i>4909</i>
Total Dose Rate (mrem/h) <i>1.8 E ± 10</i>	The data in this section were collected according to approved procedures.	
Alpha Contamination (dpm/100cm ²) <i>0.0 E ± 0</i>	Printed Name <i>RJCox</i>	Date <i>8/4/93</i>
Beta Gamma Cont. (dpm/100cm ²) <i>0.0 E ± 0</i>	Signature <i>RJCox</i>	

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA-54 by AR 10.5 <i>020 8/12/93</i>	Printed Name <i>R.G. Britton</i>	Date <i>8-6-93</i>
	Signature <i>R.G. Britton</i>	

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	018 113 93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	09 01 93	Printed Name	HARRI WILBER	Signature	HARRI WILBER

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name	GENE E. Lopez	Signature	Gene E Lopez	Date	8/23/93
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9-1-93 CY
9-1-93 (K)

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	17.0 E-11	Survey Meter Model	R03C	Property Number	2605
Neutron Dose Rate (mrem/h)	2.0 E-11	Survey Meter Model	PNR4	Property Number	5229
Total Dose Rate (mrem/h)	19.0 E-11	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	1.1 E-10	Printed Name	J.T. Miller	Date	8-27-93
Beta Gamma Cont. (dpm/100cm ²)	3.2 E-10	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Rm	Date Received	8-25-93	ORIGINAL STORAGE DATA					
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Rad Number	153	Layer	1	Row Number	8
				Column Number	13	Date Stacked (MM,DD,YY)	018 310 93		
Printed Name	Rick Martinez	Date	8-25-93	Printed Name	Charlotte Fernandez	Date	9/18/93		
Signature	Rick Martinez			Signature	Charlotte Fernandez				

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name	BRUCE LE BRUN	Date	9/13/93
		Signature	Bruce Le Brun	

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	09 113 93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	09 113 93	Printed Name	HARRI WILBER	Signature	HARRI WILBER

12. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	11 11 93	Printed Name	Patricia Sandoval	Signature	Patricia Sandoval
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Los Alamos
 Los Alamos National Laboratory
 Los Alamos, New Mexico 87545



WASTE STORAGE RECORD

WASTE PACKAGE SERIAL NUMBER
 LA 8801100505811

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	ADDITIONAL INFORMATION
Group: <u>MST-12</u>	<u>TID# A04874</u>
TA: <u>SS</u>	
Building: <u>PF-4</u>	
Program Code:	
Fixed Alpha - NOA Luo 139 - 3650	

CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT		C - Curie G - Gram	
				Nuclide	Amount		
01	<input checked="" type="checkbox"/> Steel Drum (55 gal.)	Type: <input checked="" type="checkbox"/> Lead <input type="checkbox"/> Steel <input type="checkbox"/> Concrete <input type="checkbox"/> Other	Thickness (in.): <u>6.3</u> E-12	Pu-239	2.089	E+1	
02	<input type="checkbox"/> Steel Overpack (Drum)			Am-241	7.180	E+0	
03	<input type="checkbox"/> Steel Box (58 in. x 54 in. x 38.5 in.)						
04	<input type="checkbox"/> Steel Overpack (FRP Box)						
Drum Lot Code: <u>1B1</u>		Year of Mfr: <u>87</u>					
Manufacturer's Box Serial Number: <u>N/A</u>		Other: <input type="checkbox"/>					

HAZARDOUS MATERIALS			
Gross Wt. (lb)	Organic Mat'l Wt. (lb)	Organic Mat'l Vol. (%)	Content Code
<u>5.35</u> E+02	<u>1.351</u> E+01	<u>0</u>	<u>0016</u>
Date Closed (MMDDYY): <u>10/2/88</u>			

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name: Chester H. Smith Sr Signature: Chester H. Smith Sr Date: 02-02-88

II. GENERATOR-SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h): <u>0.6</u> E+0	Survey Meter Model: <u>RO-3C</u>	Property No.: <u>002614</u>
Neutron Dose Rate (mrem/h): <u>0.6</u> E+0	Survey Meter Model: <u>PNR-4</u>	Property No.: <u>004913</u>
Total Dose Rate (mrem/h): <u>1.2</u> E+0		
Alpha Contamination (dpm/100cm ²): <u>6.3</u> E+1	The data in this section were collected as prescribed in approved procedures.	
Beta-Gamma Cont. (dpm/100cm ²): <u>0.0</u> E+0	The package is safe to handle and transport.	
Printed Name: <u>JERILYN S. MOSSO</u>	Signature: <u>Jerilyn Mossso / Russell Paul Johnson</u>	Date: <u>2/16/88</u>

III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-5.

Printed Name: BRUCE T. REICH Date: 02/22/88
 Signature: Bruce Reich

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h): <u>12.5</u> E+0	Survey Meter Model: <u>RO3C</u>	Property No.: <u>2610</u>
Neutron Dose Rate (mrem/h): <u>0.0</u> E+0	Survey Meter Model: <u>PNR-4</u>	Property No.: <u>4905</u>
Total Dose Rate (mrem/h): <u>12.5</u> E+0		
Alpha Contamination (dpm/100cm ²): <u>0.0</u> E+0	The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.	
Beta-Gamma Cont. (dpm/100cm ²): <u>0.0</u> E+0		
Printed Name: <u>Steven Corbin</u>	Signature: <u>Steven Corbin</u>	Date: <u>3/15/88</u>

V. STORAGE SITE INFORMATION

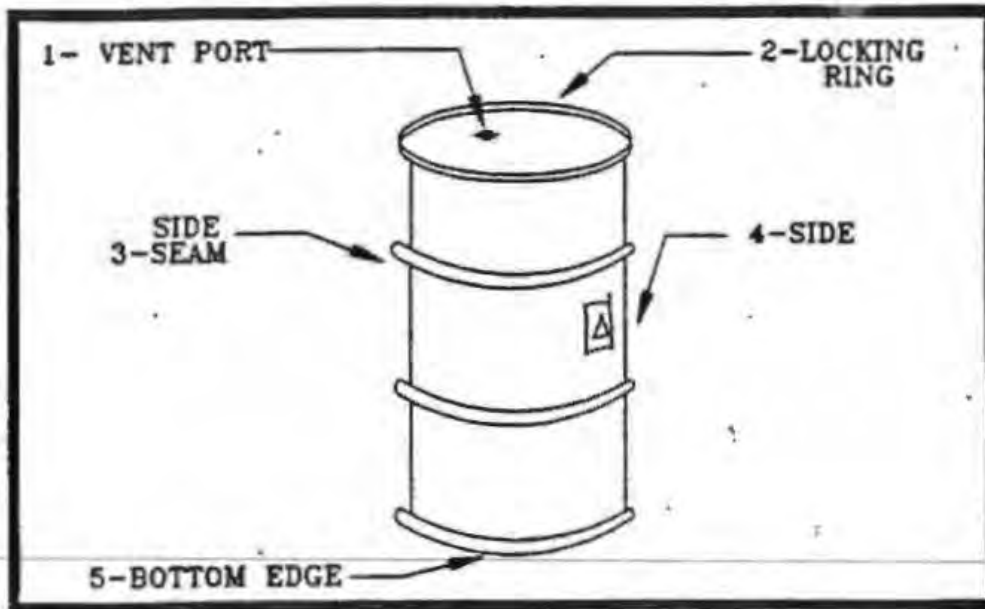
Received by: <u>RDC</u>	Date received: <u>3-1-88</u>	Pad No.: <u>2</u>	Layer: <u>1</u>
This package was visually inspected and found to be properly labeled and in good condition. It was accepted according to approved procedures.		Print No.: <u>1015</u>	Date Stacked: <u>3/15/88</u>
This waste package was stored at this location according to approved procedures.		Printed Name: <u>ROSILA F. GARCIA</u>	Date: <u>3-15-88</u>
Printed Name: <u>Eugene Salcedo</u>	Date: <u>3-14-88</u>	Signature: <u>Rosila F. Garcia</u>	

TRU CONTAINER SMEAR SURVEY DATA SHEET

MAILED

AUG 04 1993

TA 3 BUILDING 29 SAMPLE DATE 7-29-93
 RPT R-COX CONTAINER NO. LA00000053749



△ Maximum Gamma Dose Rate 1.6 mR/hr.
 □ Maximum Neutron Dose Rate .2 mRem/hr.

SMEAR NO.	LOCATION	*ALPHA	*BETA-GAMMA
1	VENT PORT	NDA	NDA
2	LOCKING RING	↓	↓
3	SIDE SEAM	↓	↓
4	SIDE	↓	↓
5	BOTTOM EDGE	↓	↓

*dpm/100cm. sq.

GAMMA INSTRUMENT
 Model: RO-3C
 P/N: 2646
 CDD: 9-16-93

NEUTRON INSTRUMENT
 Model: ESP-1 PNR-4
 P/N: 8096 4909
 CDD: 9-22-93

DISTRIBUTION:

- RPT's TA-54 MS J592
- RCT's TA-3 CMR MS G749
-

ANALYZED BY: David Barnes
 DATE: 8/3/93

Jay Sundby

2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

DISCARDABLE WASTE LOG SHEET

LA88010050581

WASTE PACKAGE SERIAL NUMBER

Proc.
 N-Comb
 Comb
 Pu-238

Vent Clip or Carbon Filter installed installer's INITIALS

Lead Lined

90 Mil Drum Liner

1/8 Inch Drum Liner

CONTAINER: open In-Line

Tamper Indicating Seal # AD4874

Date Sealed 02-02-88

Waste Code: N/A

LTH NO	ITEM ID	FROM RM/BOX	PKG WT Kg	MATRIX (MATERIAL)	MEAS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONNEL	REMARKS (Wt. in Kg.)			AUTH.	DATE
										ORGANICS V% INT.	HAZARDOUS MATERIALS	OTHER REMARKS		
0	10X4WF1B	⁴³⁴ 2468	14.93	EV Filtrate	R00	2.32	52	6.0	Smith				14	01/25/88
1	KITE1	⁴⁰⁹ 2414	9.96	Organic	R00	0.12	52	6.0	Smith	0.95	2.0		115	01/25/88
2	KITE1	⁴⁰⁹ 2414	9.96	Organic	R00	0.12	52	6.0	Smith	0.95	2.0		115	01/25/88
3	EMERLTA24	⁴³⁴ 2468	9.96	HPL Solutions	R00	1.00	52	6.0	Smith	0.95	2.0		117	01/25/88
4	1LR12EF1A	⁴³⁴ 2468	29.87	EV Filtrate	R00	2.30	52	6.0	Smith				14	01/25/88
5	1RR14WF1A	⁴³⁴ 2468	99.57	EV Filtrate	R00	15.03	52	6.0	Smith				14	02/02/88
6	10X4WF1B	⁴³⁴ 2468		EV Filtrate	R00	0.36	44	99.9	Smith				3111	01/25/88
7	1LR12EF1A	⁴³⁴ 2468		EV Filtrate	R00	1.09	44	99.9	Smith				3111	01/25/88
8	1RR14WF1A	⁴³⁴ 2468		EV Filtrate	R00	5.73	44	99.9	Smith				3111	02/02/88
9										2.2	2.13	Packaging	1	1 1

TOTALS Pkg Wt. Kg	174.25	MST-12 signatures For Gross Weight	20.8952	TOTALS	4.1	6.13	Heavy Mater. Kg
x 2.2046 = Pkg Wt Lbs	384.15	for Accountability	7.1944	organics pounds	13.51	17.92	MST-10 Assay Value <u>NA</u>
Scale GROSS WT. Pounds	535.45			QA Data Pkg. Approval			Instrument ID. _____
55 gal. drum TARE Pounds	151.28			<u>D. A. & Son 12/87</u>			MST-10 Signature <u>Ronald W Blankenship</u>

This container's waste was packaged and the MST-12 data on the DMLS and the CCSR were collected according to procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s). MST-12 Signature Charles J. Goy

★ DS-2-231/0239A

Los Alamos

NATIONAL LABORATORY

Environmental Management
Environmental Stewardship Program
EM JS91
Los Alamos, New Mexico 87545
(505) 867-6839
FAX (505) 865-8118

Date: October 2, 1996
Refer to: EM/ES:96-253

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

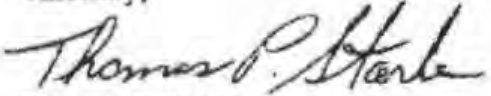
SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

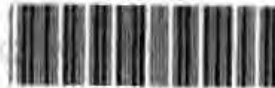
Enclosure: a/s

TS:lma

WASTE PROFILE

TRU 006

#LA53749#



LA53749

EM-8 USE ONLY
Reference Number <i>04636</i>

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490

Division/Group <i>NMT / NMT-2</i>	Telephone <i>7-1193</i>	Mail Stop <i>E501</i>	Technical Area <i>55</i>	Building <i>PF-114</i>	Room <i>206</i>
--------------------------------------	----------------------------	--------------------------	-----------------------------	---------------------------	--------------------

Method of Characterization Knowledge of Process (KOP) Chemical/Physical Analysis (specify below) Request for analysis Analysis attached
 MSDS attached (optional) - OR -

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Non salvageable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgic	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)
TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 139°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

<p>Waste Origination</p> <p>A. Is this waste generated in a radiation controlled area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.</p>	<p>Radioactivity</p> <p><input type="checkbox"/> Nonradioactive <input type="checkbox"/> Suspect <input checked="" type="checkbox"/> Radioactive</p> <p>Activity Measure Radiation Type Half-life</p> <p><input type="checkbox"/> ≤ 2.0 nCi/g <input checked="" type="checkbox"/> alpha <input type="checkbox"/> t^{1/2} < 20 yr</p> <p><input type="checkbox"/> > 2.0 nCi/g <input checked="" type="checkbox"/> beta <input checked="" type="checkbox"/> t^{1/2} ≥ 20 yr</p> <p><input type="checkbox"/> > 10.0 nCi/g <input checked="" type="checkbox"/> gamma</p> <p><input checked="" type="checkbox"/> > 100 nCi/g <input type="checkbox"/> tritium</p>
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WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) <i>Schueler, William T.</i>	Z Number <i>106374</i>	Signature <i>William Schueler</i>	Date <i>10/14/92</i>
---	---------------------------	--------------------------------------	-------------------------

If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). -->	Name (last, first, middle)	Mail Stop
---	----------------------------	-----------

Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWFAG - BULCA
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWFAG - BULCA
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWFAG - BULCA
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 6.0 ppm	<input type="checkbox"/> ≥ 6.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
creosol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

Waste Classification

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Non-RCRA waste | <input type="checkbox"/> RCRA-regulated solid waste | <input checked="" type="checkbox"/> RCRA-regulated hazardous waste | <input type="checkbox"/> Radioactive only |
| <input type="checkbox"/> PCB | <input type="checkbox"/> municipal refuse | <input type="checkbox"/> hazardous waste | <input type="checkbox"/> low-level waste |
| <input type="checkbox"/> non-PCB TSCA waste | <input type="checkbox"/> nonhazardous chemical waste | <input type="checkbox"/> mixed low-level waste | <input type="checkbox"/> transuranic waste |
| <input type="checkbox"/> asbestos | <input type="checkbox"/> administratively controlled waste | <input checked="" type="checkbox"/> mixed transuranic waste | |
| | <input type="checkbox"/> sanitary/industrial sludges | | |

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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EM-8 Reviewer's Signature <i>Flagman</i>	Date 10/14/92	Cost Center/Program Code for Analysis	Reference Number 04636
---	------------------	---------------------------------------	---------------------------



CONTAINER PROFILE
53749
T-MTRU-TEMP

WS ID: 28588
C ID: 762019
ACTIVE

GENERAL INFORMATION

Container ID:	762019	
Labeled ID:	53749	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28588	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 29-Jul-1993 12:00 am
Quantity (Univ):		Accum Start Date: 29-Jul-1993
Compactible:		Closed Date: 29-Jul-1993
Discard Matrix:		
TID(s):		
Gen Contact:		
Insert By:	WCATS APPLICATION (000000)	
Waste Desc:	(LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.	

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	653.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	110.00 lb
		Net Weight:	543.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000153: C097: L01: R02



CONTAINER PROFILE
53749
T-MTRU-TEMP

WS ID: 28588
C ID: 762019
ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____
Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	4178		0/0
Not Specified	NA	Carbon Composite	0	3974		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53749
T-MTRU-TEMP

WS ID: 28588
 C ID: 762019
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 72549, Status: Active</i>							
B/G Survey			= 0.70	=	=		Not Applicable
Neutron Survey			= 0.20	=	=		Not Applicable
Smear Results				Not Applicable		= 1.10	= 3.20

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 336469, Date: 07/29/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	7.18E+000	g	0.00E+000	N				NONE
52	2.09E+001	g	0.00E+000	N				NONE
Am-241	2.47E+001	Ci	0.00E+000	Y			Y	
Pu-238	3.58E-002	Ci	0.00E+000	Y			Y	
Pu-239	1.22E+000	Ci	0.00E+000	Y			Y	
Pu-240	2.85E-001	Ci	0.00E+000	Y			Y	
Pu-241	4.32E+000	Ci	0.00E+000	Y			Y	
Pu-242	1.65E-005	Ci	0.00E+000	Y			Y	
U-234	2.60E-006	Ci	0.00E+000	Y			Y	
U-235	4.52E-008	Ci	0.00E+000	Y			Y	

53761

Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545



WASTE STORAGE RECORD
WASTE PACKAGE SERIAL NUMBER
 LA 88010051108

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	ADDITIONAL INFORMATION
Group <i>MST-12</i>	<i>TFD# A05060</i>
TA <i>55</i>	
Building <i>TF-4</i>	<i>FIXED Alpha - NDA</i>
Program Code <i>4530</i>	<i>LVD 139 - 3533</i>

CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT		C - Curie M - Gram	
				Nuclide	Amount		
01	<input checked="" type="checkbox"/> Steel Drum (55 gal.)			Pu-239	7.9140	E+10	MC
02	<input type="checkbox"/> Steel Overpack (Drums)			Pu-239	2.0010	E+10	MC
03	<input type="checkbox"/> Steel Box (68 in. X 54 in. X 38.5 in.)	Type	Thickness (In.)	Pu-239	5.858	E+10	MC
04	<input type="checkbox"/> Steel Overpack (FRP Box)	<input type="checkbox"/> None		Am-241	5.0510	E+10	MC
	<input type="checkbox"/> Other (Describe)	<input checked="" type="checkbox"/> Lead	6.31E-12				
		<input type="checkbox"/> Steel	• E				
		<input type="checkbox"/> Concrete	• E				
		<input type="checkbox"/> Other	• E				

Drum Lot Code <i>B1</i>	Year of Mfg. <i>87</i>	HAZARDOUS MATERIALS	
Manufacturer's Box Serial Number	Process Batch Code	Name	EPA Code
		<i>Seal</i>	<i>P210B3</i>
Gross Wt. (lb) <i>15.417</i>	Organic Mat'l Wt. (lb) <i>1.217</i>	Quantity (g)	
Organic Mat'l Vol (%)	Content Code <i>10016</i>		
Date Closed (MMDDYY) <i>052688</i>			

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name <i>Chester A Smith Sr</i>	Signature <i>Chester A Smith Sr</i>	Date <i>06-01-88</i>
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II. GENERATOR—SITE HEALTH PHYSICS INFORMATION			
Gamma Dose Rate (mrem/h) <i>10.41E+0</i>	Survey Meter Model <i>R0-3C</i>	Property No. <i>2659</i>	
Neutron Dose Rate (mrem/h) <i>10.51E+0</i>	Survey Meter Model <i>PNR-4</i>	Property No. <i>4903</i>	
Total Dose Rate (mrem/h) <i>10.91E+0</i>			

Alpha Contamination (dpm/100cm ²) <i>10.01E+0</i>	The data in this section were collected as prescribed in approved procedures.
Beta-Gamma Cont. (dpm/100cm ²) <i>10.01E+0</i>	The package is safe to handle and transport.

Printed Name <i>JAMES B. SANCHEZ</i>	Signature <i>James B Sanchez</i>	Date <i>6-24-88</i>
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III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION	
The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-5.	Printed Name BRUCE LE BRUN Date <i>7/12/88</i>
	Signature <i>Bruce Le Brun</i>

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION			
Gamma Dose Rate (mrem/h) <i>10.01E+0</i>	Survey Meter Model <i>R0-3C</i>	Property No. <i>2620</i>	
Neutron Dose Rate (mrem/h) <i>10.01E+0</i>	Survey Meter Model <i>PNR-4</i>	Property No. <i>4901</i>	
Total Dose Rate (mrem/h) <i>10.01E+0</i>			

Alpha Contamination (dpm/100cm ²) <i>10.01E+0</i>	The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.
Beta-Gamma Cont. (dpm/100cm ²) <i>10.01E+0</i>	

Printed Name <i>Glen Cobbin</i>	Signature <i>Glen Cobbin</i>	Date <i>8/4/88</i>
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V. STORAGE SITE INFORMATION			
Received by <i>U</i>	Date received <i>7-21-88</i>	Pad No. <i>3</i>	Layer <i>1</i>
This package was visually inspected and found to be properly labeled and in good condition. It was accepted according to approved procedures.		Post No. <i>10</i>	Date Stacked <i>8-22-88</i>
Printed Name <i>EUGENE SALAZAR</i> Date <i>8/4/88</i>		Printed Name <i>Rosila Garcia</i> Date <i>8-22-88</i>	
Signature <i>Eugene Salazar</i>		Signature <i>ROSILA F. GARCIA</i>	



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code	ANL 0103446	Inspected Items			
Year of Manufacture	1973	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents	
Box Serial Number	N/A	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint	
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.		Printed Name	Steven Grigo	Date	7/29/93
		Signature	Steven Grigo		

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	Group	NMT-2	Technical Area	TA-55	Building	PF4	Program Code	K567	
Additional Information: 55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM									
T.D.# 020065									
CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT					
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None		Nuclide	Amount ±		Uncertainty ±		
02	<input type="checkbox"/> Standard Waste Box	Type	Thickness (in.)	Pu-239	7.9210	E +10	.	E	
03	<input checked="" type="checkbox"/> Other (Call TWCO)	LEAD	6.3 E -12	Pu-239	2.01010	E +10	.	E	
04	<input type="checkbox"/> RH Canister		. E	Pu-239	5.81815	E +11	.	E	
Waste Profile Request Number		0, 4, 6, 3, 6		AMMA	5.01510	E +10	.	E	
Carbon Filter ID		01 LA 4116 2 02 LA 410610			.	E	.	E	
Process Batch Code		N/A			.	E	.	E	
Gross Weight (lb.)		16.615 E +12		NONRADIOACTIVE HAZARDOUS MATERIALS					
Organic Material Wt. (lb.)		11.217 E +11		Name	EPA Code	Quantity (g)			
Organic Material Volume (%)		1110		LEAD SHIELDING	D 0 0 8	3.8 E +14			
TRUCON Code		111A1A		CADMIUM	D 0 0 6	4.6 E +10			
Date Closed (MMDDYY)		07/29/93 015 26 818		CHROMIUM	D 0 0 7	1.0 E +10			
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. The data are correct and complete to the best of my knowledge.				LEAD	D 0 0 8	1.5 E +1			
Printed Name		Kathleen M. Gruetzmacher		Signature		KM Gruetzmacher		Date	8/5/93

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	3.0 E -1	Survey Meter Model	RO-3C	Property Number	2646
Neutron Dose Rate (mrem/h)	4.0 E -1	Survey Meter Model	PNR-4	Property Number	4909
Total Dose Rate (mrem/h)	7.0 E -1	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	0.0 E +10	Printed Name	R J Cox	Date	8/4/93
Beta-Gamma Cont. (dpm/100cm ²)	0.0 E +10	Signature	R J Cox		

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA-54 by AR 10.5		Printed Name	R. G. Britton	Date	8-6-93
		Signature	R.G. Britton		

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	08/13/93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	09/01/93	Printed Name	Barrie Wilder	Signature	Barrie Wilder

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name	GENE E. LOPEZ	Signature	Gene E. Lopez	Date	8/23/93
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7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	15.0 E -1	Survey Meter Model	R03C	Property Number	2605
Neutron Dose Rate (mrem/h)	10.0 E +10	Survey Meter Model	PNR4	Property Number	5229
Total Dose Rate (mrem/h)	15.0 E -1	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	13.4 E +10	Printed Name	J.T. Miller	Date	8-27-93
Beta-Gamma Cont. (dpm/100cm ²)	14.1 E +10	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Rm	Date Received	8-25-93	ORIGINAL STORAGE DATA					
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Package Number	153	Layer	1	Row Number	1
				Column Number	19	Date Stacked (MM/DD/YY)	08/30/93		
Printed Name	Rick Martinez	Date	8-25-93	Printed Name	Charlotte Fernandez	Date	9/8/93		
Signature	Rick Martinez			Signature	Charlotte Fernandez				

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name	BRUCE LE BRUN	Date	9/13/93
		Signature	Bruce Le Brun	

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	09/13/93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	09/13/93	Printed Name	Barrie Wilder	Signature	Barrie Wilder

12. DUPLICATE COPY

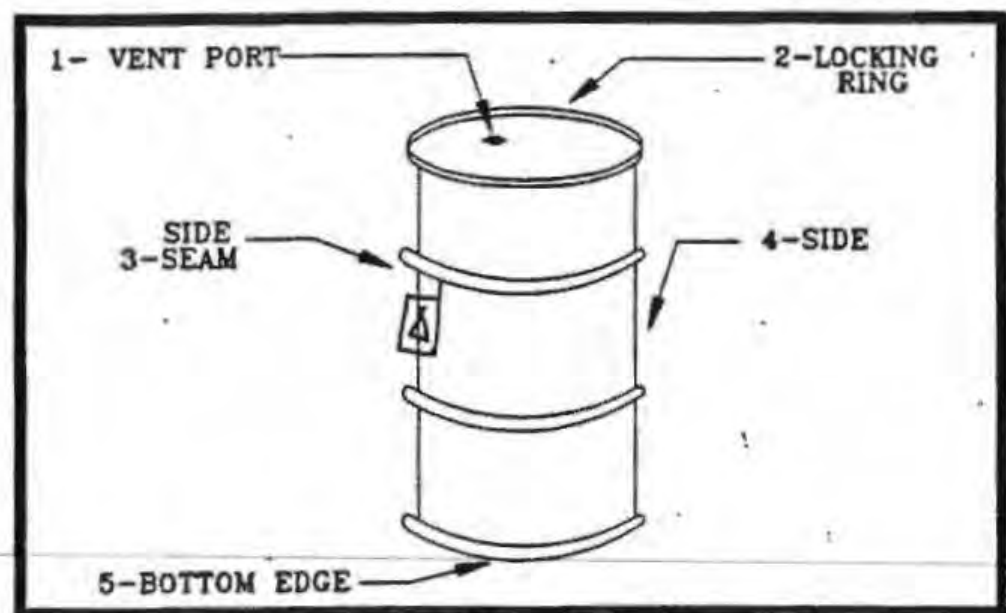
M M D D Y Y

Date Duplicate Filed	11/19/93	Printed Name	Renee Sandoval	Signature	Renee Sandoval
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TRU CONTAINER SMEAR SURVEY DATA SHEET . MAILED

AUG 04 1993

TA 3 BUILDING 29 SAMPLE DATE 7-29-93
 RPT R-COX CONTAINER NO. LA00000053761



△ Maximum Gamma Dose Rate 0.3 mR/hr.
 □ Maximum Neutron Dose Rate 0.4 mRem/hr.

SMEAR NO.	LOCATION	*ALPHA	*BETA-GAMMA
1	VENT PORT	NDA	NDA
2	LOCKING RING	↓	↓
3	SIDE SEAM	↓	↓
4	SIDE	↓	↓
5	BOTTOM EDGE	↓	↓

GAMMA INSTRUMENT
 Model: RO-3C
 P/N: 2646
 CDD: 9-16-93

NEUTRON INSTRUMENT
 Model: FSP + PNR-4
 P/N: 8006 4909
 CDD: 9-22-93

*dpm/100cm. sq.

DISTRIBUTION:

- RPT's TA-54 MS J592
- RCT's TA-3 CMR MS G749
-

ANALYZED BY: Ralph Vigil
 DATE: 8-31-93

2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

Return-Path: <bodenstein@lanl.gov>
X-Sender: sab@wm0.lanl.gov
Date: Thu, 10 Oct 1996 19:06:19 -0600
To: aic@lanl.gov
From: bodenstein@lanl.gov (Stan Bodenstein, CST-7, 5-8462)
Subject: Second Dewatered Drum Shipment to TA-54
Cc: Triay@lanl.gov, jrj@lanl.gov, shelmick@lanl.gov, grand@lanl.gov,
dvc@lanl.gov, rickmar@lanl.gov, jbalkey@lanl.gov, ronwieneke@lanl.gov,
kgruetzmacher@lanl.gov, dpt@lanl.gov, jhatchell@lanl.gov

I-Li,

We received the following drums from you as OVERPACKED 55 gallon drums. We dewatered each of the drums at the WCRRF.

Since each of the drums was in very good condition, except as noted below, we will be shipping the following list of drums back to you as 55 gallon drums, WITHOUT the overpacks on 10/11/96. Also indicated is the change in weight due to the removal of water.

Please update the database as necessary.

Drum Number	Pounds		Comments
	Initial Weight	Final Weight	
53706	557.0	543.0	
53721	537.6	533.8	
53834	561.0	553.6	
53762	529.0	518.2	
53759	556.6	553.6	
53704	515.8	508.0	
53716	523.2	518.4	
53795	551.4	542.4	
53768	551.6	537.2	
53801	559.6	549.6	
53752	526.0	517.0	
53769	531.2	519.0	
53773	563.4	551.6	
53708	530.2	521.0	
53760	553.8	546.2	
53726	517.6	513.0	
52175	831.4	812.6	Drum in poor condition, returned in overpack.
53710	545.6	541.4	
53777	536.2	523.2	
53774	549.4	546.2	
53830	545.8	537.8	
54004	828.2	806.0	Drum in poor condition, returned in overpack.
53729	543.6	530.0	
53717	546.2	540.8	
53776	532.0	518.8	
53832	511.8	498.2	
53770	538.8	538.4	
53818	538.8	526.8	
53761	546.2	529.4	
53813	556.6	545.8	

1 A B A O I O O 5 1 1 0 8

WASI PACKAGE SERIAL NUMBER

Lead Lined

90 Mil Drum Liner

1/8 Incl Drum Liner

Proc. N-Comb Comb Pu-238

CONTAINER: open In-line

Waste Code: U/A

Vent Clip or Carbon Filter installed installer's INITIALS: RM

Tamper Indicating Seal A-10 A05060

Date Sealed 05-26-88

ITEM NO	ITEM ID	FROM DR/BOX	PKG WT Kg	MATRIX (MATERIAL)	MERS. CODE	SNM GRAMS	MT	Z	CERTIFIED PERSONNEL	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy
										ORGANICS %	HAZARDOUS MATERIALS	OTHER REMARKS		
0	5LR6EF1B	434 6467	77.21	Nitrate Solution/lean	R00	9.92	55	15.0	Smith			7/11	05/26/88	
1	5DX10WF1	434 6467	73.60	Nitrate Solution/lean	R00	2.00	53	9.0	Smith			7/11	05/26/88	
2	NL21R	420 6440	1.79	Plastic impeded	603	16.17	52	6.0	Smith	1.29	1.79	7/17	05/26/88	
3	NL85R	420 6440	1.82	Plastic impeded	602	14.56	52	6.8	Smith	1.14	1.82	7/17	05/26/88	
4	5RR17EF1A	434 6467	14.61	Nitrate Solution/lean	R00	7.41	52	6.0	Smith			7/11	05/26/88	
5	NL15R	420 6440	0.99	Plastic impeded	602	9.53	52	6.0	Smith		1.00	7/18	05/26/88	
6	MANWL 82A	420 6440	0.14	Plastic impeded	602	3.57	52	6.0	Smith			7/13	05/26/88	
7	5LR6EF1B	434 6467		Nitrate Solution/lean	R00	3.99	44	99.9%	Smith			7/11	05/26/88	
8	5DX10WF1	434 6467		Nitrate Solution/lean	R00	0.11	44	99.9%	Smith			7/11	05/26/88	
9	5RR17EF1A	434 6467		Nitrate Solution/lean	R00	0.95	44	99.9%	Smith	2.2	2.13	7/11	05/26/88	
TOTALS						7.92	55		TOTALS	4.63	3.94	Maz. Mat. - Kg		
x 2.2046 = Pkg Wt Lbs						397.18	53		Organics pounds	1.16		MST-10 Assay Value		
5 gal. drum TAPE Pounds						149.78			On Data Pkg. Approval			Instrument ID		
Scale TROSS WT. Pounds						546.96			W. H. Davis 7/8/88			MST-10 Signature		

This container's waste was packaged and the MST-12 data on the DWS and the CWSF were collected according to procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s). MST-12 Signature Charles L. Fox

WASTE PROFILE I

TRU 006

#LA53761#



LA53761

EM-8 USE ONLY
Reference Number
C4636

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490

Division/Group NMT / NMT-2	Telephone 7-1193	Mail Stop E501	Technical Area 55	Building PF-114	Room 206
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Method of Characterization Knowledge of Process (KOP) MSDS attached (optional) - OR - Chemical/Physical Analysis (specify below) Request for analysis Analysis attached

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Nonseizable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgic	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)
TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 130°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

Waste Origination

A. Is this waste generated in a radiation controlled area? Yes No

B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) Yes No

C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity

Nonradioactive Suspect Radioactive

Activity Measure	Radiation Type	Half-life
<input type="checkbox"/> ≤ 2.0 nC/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> t ^{1/2} < 20 yr
<input type="checkbox"/> > 2.0 nC/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> t ^{1/2} ≥ 20 yr
<input type="checkbox"/> > 10.0 nC/g	<input checked="" type="checkbox"/> gamma	
<input checked="" type="checkbox"/> > 100 nC/g	<input type="checkbox"/> tritium	

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) <u>Schueler, William T.</u>	Z Number <u>106374</u>	Signature <u>William Schueler</u>	Date <u>10/14/92</u>
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If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). -->	Name (last, first, middle)	Mail Stop
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Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SW46-601CB
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SW46-6020(mod)
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SW46-601A
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 6.0 ppm	<input type="checkbox"/> ≥ 6.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
creosol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.00 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

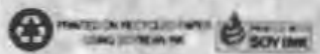
Waste Classification

<input type="checkbox"/> Non-RCRA waste	<input type="checkbox"/> RCRA-regulated solid waste	<input checked="" type="checkbox"/> RCRA-regulated hazardous waste	<input type="checkbox"/> Radioactive only
<input type="checkbox"/> PCB	<input type="checkbox"/> municipal refuse	<input type="checkbox"/> hazardous waste	<input type="checkbox"/> low-level waste
<input type="checkbox"/> non-PCB TSCA waste	<input type="checkbox"/> nonhazardous chemical waste	<input type="checkbox"/> mixed low-level waste	<input type="checkbox"/> transuranic waste
<input type="checkbox"/> asbestos	<input type="checkbox"/> administratively controlled waste	<input checked="" type="checkbox"/> mixed transuranic waste	
	<input type="checkbox"/> sanitary/industrial sludges		

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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EM-8 Reviewer's Signature <i>Hayman</i>	Date 10/14/92	Cost Center/Program Code for Analysis	Reference Number 04636
--	------------------	---------------------------------------	---------------------------

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address Los Alamos National Laboratory				A. State Manifest Document Number			
4. Generator's Phone ()				B. State Generator's ID			
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address Los Alamos National Laboratory Mesq Del Buoy Rd. TA-54		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility's ID			
				H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
a. K NO. RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918, HIGHWAY ROUTE CONTROLLED QUANTITY SOLID, ELEMENTAL, AN241, PU230, PU239, PU240, PU241, PU242, 4.3B98+01C1, T-I-0.0 RADIOACTIVE TELECOM TEL				No. 1	Type	665	P
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above 10/9/96				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information "EMERGENCY PHONE NO. (505) 667-6311" 210A (EMERGENCY) 165 Road (from) through the HRCQ Placard removed. NHTSA MID-10-96-1							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Donald E. Salazar				Signature Donald E. Salazar		Month Day Year 	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name Alvin Davis				Signature Alvin Davis		Month Day Year 11/9/96	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year 	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name Rick Martinez				Signature Rick Martinez		Month Day Year 11/11/96	



TSDF COPY

DRUM SURVEY SHEET TA-50-69, WCRRF

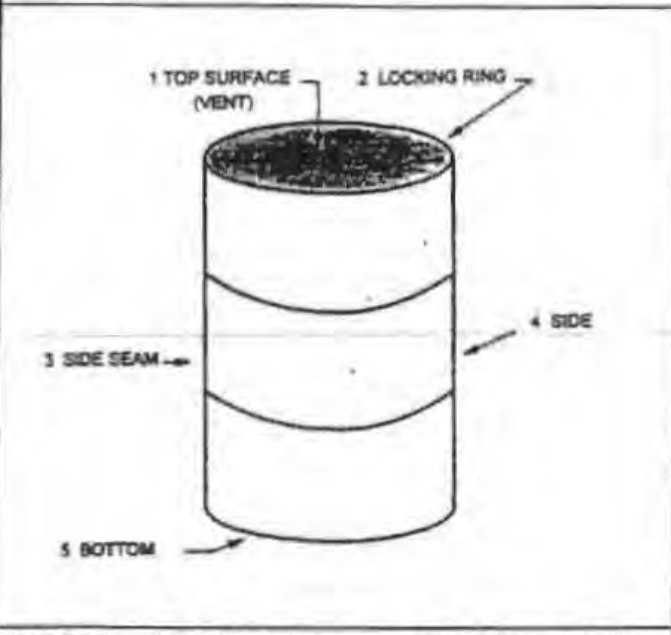
ROOM: **LOCATION**
 102
 103
 104
 50-193
BUILDING _____
OTHER _____

CONTAINER NUMBER: 53761
DRUM SURVEY DATE: 9/12/96
SURVEYED BY: James
 (Signature)

RCT: **SALAZAR**
 AULT
 SANCHEZ
OTHER _____

GAMMA INSTRUMENT
MODEL: **RO-2**
 RO-3C
(OTHER) _____

P/N 3304
CAL DUE DATE 10/3/96
MAXIMUM GAMMA DOSE RATE
 Δ **CONTACT** 0.2 mR/hr
1-METER 0 mR/hr



NEUTRON INSTRUMENT
MODEL: **ESP-2/NRD**
 PNR-4
(OTHER) _____
P/N: 8031
CAL DUE DATE 1/29/97
MAXIMUM NEUTRON DOSE RATE

CONTACT 0 mRem/hr
1-METER 0 mRem/hr

SMEAR	LOCATION	ALPHA	BETA*
1	TOP SURFACE	2.41	↑
2	LOCKING RING		↑
3	SIDE SEAM		↓
4	SIDE		6.83
5	BOTTOM		↓

DISTRIBUTION
 1. RCT's **TA-50** **MS E516**
 2. _____
 3. _____

ALPHA/BETA INSTRUMENT
BERTHOLD LB770, P/N 844236
APPROVED
Bobby Gonzales

DATE: / /

Los Alamos

NATIONAL LABORATORY

53761

Environmental Management
Environmental Stewardship Program
EM-3591
Los Alamos, New Mexico 87545
(505) 867-6630
FAX (505) 865-8118

Date: October 2, 1996
Refer to: EM/ES-96-253

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

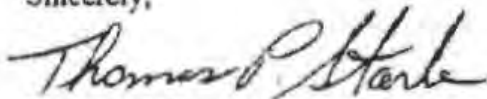
SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: a/s

TS:lma

**LAND DISPOSAL RESTRICTIONS
NOTIFICATION FORM**

A copy of this form must be attached to each Waste Profile Form and to each Uniform Hazardous Waste Manifest required to transport waste from LA pursuant to 40 CFR 268.7(a)(1).

Waste Profile Form No. 4636	Chemical Waste/ Waste Disposal Record No. LA00000053761	Uniform Hazardous Waste Manifest No. 53761	Date of Waste Pickup 8/25/93
---------------------------------------	--	---	--

Check only one.

- Non-wastewater
 Wastewater (as defined in 40 CFR 268.2(f))

NOTIFICATION OF CALIFORNIA LIST APPLICABILITY

Check all that apply.

- Liquid hazardous waste containing PCBs at a concentration of 250 ppm.
 A D001 - D017 liquid waste containing 2134 mg/l. of nickel and/or 2130 mg/L of thallium.
 A D001 - D011 waste containing Halogenated Organic Compounds (HOCs) listed in 40 CFR 268, Appendix III, at 21000 ppm.

NOTIFICATION OF "D" CHARACTERISTIC EPA WASTE CODES

Check all that apply.

EPA Waste Code Waste Description and/or Subcategory (as needed)

- D001 Ignitable characteristic wastes (except for the Section 261.21(a)(1) High TOC Subcategory) that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
- D001 High TOC Ignitable Characteristic Liquids Subcategory based on 40 CFR 261.21(a)(1) - Greater than 10% total organic carbon.
- D002 Corrosive Characteristic Wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
- D003 Reactive Sulfides Subcategory
- D003 Reactive Cyanides Subcategory
- D003 Water Reactive Subcategory
- D003 Other Reactives Subcategory (based on 261.23(a)(1))
- D004
- D005
- D006 Wastes that exhibit the TC for cadmium
- D006 Cadmium Containing Batteries Subcategory
- D007
- D008 Wastes that exhibit TC for lead
- D008 Lead Acid Batteries Subcategory
- ~~D009~~ Radioactive Lead Solids Subcategory
- D009 High Mercury-Organic Subcategory (≥250 mg/kg Hg with organics and not incinerator residues)
- D009 High Mercury-Inorganic Subcategory (≥250 mg/kg Hg [with inorganics])
- D009 Low Mercury Subcategory (<250 mg/kg Hg)
- D009 All D009 wastewaters
- D009 Elemental mercury contaminated with radioactive materials.
- D009 Hydraulic oil contaminated with Mercury Radioactive Materials Subcategory
- D010
- D011

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> D012 | <input type="checkbox"/> D020 | <input type="checkbox"/> D028 | <input type="checkbox"/> D036 |
| <input type="checkbox"/> D013 | <input type="checkbox"/> D021 | <input type="checkbox"/> D029 | <input type="checkbox"/> D037 |
| <input type="checkbox"/> D014 | <input type="checkbox"/> D022 | <input type="checkbox"/> D030 | <input type="checkbox"/> D038 |
| <input type="checkbox"/> D015 | <input type="checkbox"/> D023 | <input type="checkbox"/> D031 | <input type="checkbox"/> D039 |
| <input type="checkbox"/> D016 | <input type="checkbox"/> D024 | <input type="checkbox"/> D032 | <input type="checkbox"/> D040 |
| <input type="checkbox"/> D017 | <input type="checkbox"/> D025 | <input type="checkbox"/> D033 | <input type="checkbox"/> D041 |
| <input type="checkbox"/> D018 | <input type="checkbox"/> D026 | <input type="checkbox"/> D034 | <input type="checkbox"/> D042 |
| <input type="checkbox"/> D019 | <input type="checkbox"/> D027 | <input type="checkbox"/> D035 | <input type="checkbox"/> D043 |

*All applicable Underlying Hazardous Constituents in these characteristic wastes must be checked in Table UTS.

**LAND DISPOSAL RESTRICTIONS
NOTIFICATION FORM**

NOTIFICATION FOR F001 – F005 SPENT SOLVENT WASTES

Check all that apply.

Spent solvent wastes with the following constituents only.

<u>EPA Waste Code</u>	<u>Constituents in the waste</u>	
<input type="checkbox"/> F001	<input type="checkbox"/> Acetone.	<input type="checkbox"/> Isobutyl alcohol
<input type="checkbox"/> F002	<input type="checkbox"/> Benzene	<input type="checkbox"/> Methanol
<input type="checkbox"/> F003	<input type="checkbox"/> n-Butyl alcohol	<input type="checkbox"/> Methylene chloride
<input type="checkbox"/> F004	<input type="checkbox"/> Carbon disulfide (wastewater only)	<input type="checkbox"/> Methyl ethyl ketone
<input type="checkbox"/> F005	<input type="checkbox"/> Carbon tetrachloride	<input type="checkbox"/> Methyl isobutyl ketone
	<input type="checkbox"/> Chlorobenzene	<input type="checkbox"/> Nitrobenzene
	<input type="checkbox"/> o-cresol	<input type="checkbox"/> Pyridine
	<input type="checkbox"/> m-cresol	<input type="checkbox"/> Tetrachloroethylene
	<input type="checkbox"/> p-cresol	<input type="checkbox"/> Toluene
	<input type="checkbox"/> Cresol-mixed isomers (Cresylic acid)	<input type="checkbox"/> 1,1,1-Trichloroethane
	<input type="checkbox"/> Cyclohexanone (wastewater only)	<input type="checkbox"/> 1,1,2-Trichloroethane
	<input type="checkbox"/> o-Dichlorobenzene	<input type="checkbox"/> 1,1,2-Trichloro – 1,2,2-trifluoroethane
	<input type="checkbox"/> Ethyl acetate	<input type="checkbox"/> Trichloroethylene
	<input type="checkbox"/> Ethyl benzene	<input type="checkbox"/> Trichloromonofluoroethane
	<input type="checkbox"/> Ethyl ether	<input type="checkbox"/> Xylenes – mixed isomers (o-, m-, p-xylene)

Check all that apply.

<u>EPA Waste Codes</u>	<u>Constituents in the waste</u>
<input type="checkbox"/> F003	<input type="checkbox"/> Carbon disulfide
<input type="checkbox"/> F005	<input type="checkbox"/> Cyclohexanone
	<input type="checkbox"/> Methanol

Note: Treatment standards for these constituents apply to F001 – F005 wastes which contain only one, two, or all three of these constituents.

Check only one, if applicable.

<u>EPA Waste Code</u>	<u>Constituents in the waste</u>
<input type="checkbox"/> F005	<input type="checkbox"/> Containing 2-nitropropane as the only listed F001 – F005 solvent.
	<input type="checkbox"/> Containing 2-ethoxyethanol as the only listed F001 – F005 solvent.

NOTIFICATION FOR OTHER "F" WASTES

Check only one, if applicable.

- F006
- F007
- F008
- F009
- F027




CONTAINER PROFILE

53761

T-MTRU-TEMP

WS ID: 28588
C ID: 762052
ACTIVE

GENERAL INFORMATION

Container ID:	762052	
Labeled ID:	53761	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28588	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 29-Jul-1993 12:00 am
Quantity (Univ):		Accum Start Date: 29-Jul-1993
Compactible:		Closed Date: 29-Jul-1993
Discard Matrix:		
TID(s):		
Gen Contact:		
Insert By:	WCATS APPLICATION (000000)	
Waste Desc:	(LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.	

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	592.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	63.00 lb
		Net Weight:	469.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000232: STAGE



CONTAINER PROFILE
53761
T-MTRU-TEMP

WS ID: 28588
 C ID: 762052
 ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____
Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
—	K567	—	—	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	4162		0/0
Not Specified	NA	Carbon Composite	0	4060		0/0
Not Specified	NA	Carbon Composite	0	IG2057		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53761
T-MTRU-TEMP

WS ID: 28588
 C ID: 762052
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 72605, Status: Active</i>							
B/G Survey			= 0.50	=	=	Not Applicable	
Neutron Survey			= 0.00	=	=	Not Applicable	
Smear Results			Not Applicable			= 3.40	= 4.10

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 336526, Date: 07/29/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	5.05E+000	g	0.00E+000	N				NONE
52	5.88E+001	g	0.00E+000	N				NONE
53	2.00E+000	g	0.00E+000	N				NONE
55	7.92E+000	g	0.00E+000	N				NONE
Am-241	1.73E+001	Ci	0.00E+000	Y			Y	
Pu-238	1.93E-001	Ci	0.00E+000	Y			Y	
Pu-239	3.95E+000	Ci	0.00E+000	Y			Y	
Pu-240	1.10E+000	Ci	0.00E+000	Y			Y	
Pu-241	2.14E+001	Ci	0.00E+000	Y			Y	
Pu-242	1.47E-004	Ci	0.00E+000	Y			Y	
U-234	1.81E-005	Ci	0.00E+000	Y			Y	
U-235	1.47E-007	Ci	0.00E+000	Y			Y	

53764

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

CERTIFIED WASTE STORAGE RECORD



WASTE PACKAGE SERIAL NUMBER
LA 8 7 0 1 0 0 5 0 5 4 2

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE		ADDITIONAL INFORMATION		TID # A04368		
Group	NIST-12	Neutrons mrem/hr 0.5				
TA	55					
Building	PF-4					
Room	401	Neutron dose rate 0.5 mR/hr				
CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT		C - Curie M - Gram
				Nuclide	Amount	
01	<input checked="" type="checkbox"/> Steel Drum (55 gal)					
02	<input type="checkbox"/> Steel Overpack (Drums)					
03	<input type="checkbox"/> Steel Box (68 in. X 54 in. X 38.5 in.)	Type	Thickness (in.)	Pu-239	3.368E+1	1 M
04	<input type="checkbox"/> Steel Overpack (FRP Box)	<input type="checkbox"/> None		Pu-238	2.76E+0	0 M
	<input type="checkbox"/> Other (Describe)	<input checked="" type="checkbox"/> Lead	6.31E-2			
		<input type="checkbox"/> Steel	• E			
		<input type="checkbox"/> Concrete	• E			
		<input type="checkbox"/> Other	• E			
Drum Lot Code	D1	Year of Mfr	86			
Manufacturer's Box Serial Number	WIP					
Process Batch Code	WIP					
HAZARDOUS MATERIALS				None		
Gross Wt. (lb)	5.215E+1	Name		EPA Code		Quantity (g)
Organic Mat'l Wt. (lb)	4.619E+1	Food		P00018		3.81E+1
Organic Mat'l Vol (%)	1.1E+0					• E
Content Code	10.016					• E
Date Closed (MMDDYY)	10/9/05					• E

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name: Chester A Smith Jr
Signature: [Signature]
Date: 09/16/87

II. GENERATOR-SITE HEALTH PHYSICS INFORMATION

Surface Dose Rate (mrem/h)	2.0E+1	The data in this section were collected as prescribed in approved procedures. The package is properly closed and is safe to handle and transport.	
Survey Meter Model	Ludl39, R03C, PNR-4	Printed Name	LOW WILLIAMS
Survey Meter Serial No	003504, 002660, 004917	Signature	Low Williams
Alpha Contamination (dpm/100cm ²)	4.0E+1	Date	10-27-87
Beta-Gamma Cont. (dpm/100cm ²)	10.0E+1		

III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-2.

Printed Name: MICHELLE BURNS
Signature: [Signature]
Date: 12/7/87

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Surface Dose Rate (mrem/h)	3.0E+1	The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.	
Survey Meter Model	PNR-4 PIC-6A	Printed Name	J. VILLAREAL
Survey Meter Serial No	005230 003060	Signature	[Signature]
Alpha Contamination (dpm/100cm ²)	3.0E+1	Date	12-22-87
Beta-Gamma Cont. (dpm/100cm ²)	2.2E+1		

V. STORAGE SITE INFORMATION

This package was visually inspected when received and was found to be properly labeled and in good condition. It was accepted according to approved procedures.

Printed Name: KEITH CARTER
Signature: [Signature]
Date: 12-17-87

Printed Name: ROSILA F. GARCIA
Signature: [Signature]
Date: 12/23/87

Package No: MD-33
Layer: 2
Post No: 15-20
Date Stacked: 12/23/87

This waste package was stored at this location according to approved procedures.



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code	<i>NM L0162 AAG</i>	Inspected Items		
Year of Manufacture	<i>1913</i>	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number	<i>N/A</i>	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging		Printed Name	<i>Steven Grigo</i>	Date
		Signature	<i>Steven Grigo</i>	<i>8-11-93</i>

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	Group	Technical Area	Building	Program Code							
	<i>NMT-2</i>	<i>TA-55</i>	<i>PF4</i>	<i>K567</i>							
Additional Information 55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM											
<i>TID # B20244</i>											
CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT							
		Type	Thickness (in.)	Nuclide	Amount +/-		Uncertainty +/-		C=Curie M=Gram		
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None									
02	<input type="checkbox"/> Standard Waste Box			<i>Pu152</i>	<i>3.31618</i>	<i>E</i>	<i>+11</i>	<i>.</i>	<i> </i>	<i>E</i>	<i>M</i>
03	<input checked="" type="checkbox"/> Other (Call TWCO)	LEAD	<i>6.3E-12</i>	<i>Am141</i>	<i>2.7161</i>	<i>E</i>	<i>+10</i>	<i>.</i>	<i> </i>	<i>E</i>	<i>M</i>
04	<input type="checkbox"/> RH Canister										
Waste Profile Request Number		<i>04636</i>									
Carbon Filter ID		<i>01 LA 4117502</i>									
Process Batch Code		<i>N/A</i>									
Gross Weight (lb.)		<i>16.431E+12</i>		NONRADIOACTIVE HAZARDOUS MATERIALS							
Organic Material Wt. (lb.)		<i>1.619E+10</i>		Name		EPA Code		Quantity (g)			
Organic Material Volume (%)		<i>1110</i>		LEAD SHIELDING		<i>D008</i>		<i>3.81E+4</i>			
TRUCON Code		<i>1114A</i>		CADMIUM		<i>D006</i>		<i>2.5E+0</i>			
Date Closed (MMDDYY)		<i>08/11/93</i>		CHROMIUM		<i>D007</i>		<i>2.6E+1</i>			
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. The correct and complete to the best of my knowledge				LEAD		<i>D008</i>		<i>1.4E+1</i>			
Printed Name		<i>Kathleen M. Gruetzmacher</i>		Signature		<i>KM Gruetzmacher</i>		Date			
								<i>9/1/93</i>			

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	<i>6.0</i>	<i>4.0E+0</i>	<i>-1</i>	Survey Meter Model	<i>RO-3C ESP-100</i>	Property Number	<i>PNR-4 2646</i>
Neutron Dose Rate (mrem/h)	<i>6.0</i>	<i>2.0E+0</i>	<i>-1</i>	Survey Meter Model	<i>PNR-4</i>	Property Number	<i>5220</i>
Total Dose Rate (mrem/h)	<i>1.2</i>	<i>6.0E+0</i>	<i>+0</i>	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	<i>2.6</i>	<i>E</i>	<i>11</i>	Printed Name	<i>RJ Cox / STEVE BASEBORN</i>	Date	<i>8/26/93</i>
Beta-Gamma Cont (dpm/100cm ²)	<i>2.9</i>	<i>E</i>	<i>11</i>	Signature	<i>Steve Basenore for R.J. Cox</i>		

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA-54 by AR 10.5.	Printed Name	BRUCE LE BRUN	Date	<i>9/9/93</i>
	Signature	<i>Bruce Le Brun</i>		

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	09/14/93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	10/01/93	Printed Name	Arri Wilder	Signature	Arri Wilder

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name	Gene E. Lopez	Signature	Gene E. Lopez	Date	9/29/93
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7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	16.9E-1	Survey Meter Model	RO3C	Property Number	2620
Neutron Dose Rate (mrem/h)	14.0E-1	Survey Meter Model	PNR4	Property Number	5229
Total Dose Rate (mrem/h)	1.0E-1	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	1.1E+1	Printed Name	J.T. MILLER	Date	9-27-93
Beta-Gamma Cont. (dpm/100cm ²)	1.5E+1	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Rm	Date Received	9-24-93	ORIGINAL STORAGE DATA					
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Ped Number	153	Layer	2	Row Number	8
				Column Number	27	Date Stacked (MM,DD,YY)	09/28/93		
Printed Name	Rick Martinez	Date	9-24-93	Printed Name	RENEE SANDOVAL	Date	10-6-93		
Signature	Rick Martinez			Signature	Renee Sandoval				

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name	BRUCE LE BRUN	Date	10/25/93
	Signature	Bruce Le Brun		

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	11/02/93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	11/01/93	Printed Name	Arri Wilder	Signature	Arri Wilder

12. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	11/19/93	Printed Name	Renee Sandoval	Signature	Renee Sandoval
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2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

DISCARDABLE WASTE LOG SHEET

Effective Date 05/08/87

LA87010050542
WASTE PACKAGE SERIAL NUMBER

Page 1 of Page 2

Proc. N-Coab Coab Pu-238

Lead Lined
90 Mil Drum Liner
1/8 Inch Drum Liner

CONTAINER: open In-Line

Tamper Indicating Seal # A04368
Date Sealed 09/10/87

Waste Code: N/A

ITH NO	ITEM ID	FROM RM or BOX	PKG WT Kg	MATRIX (MATERIAL)	MEAS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONNEL SIGNATURE	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy	
										ORGANICS V%	HAZARDOUS MATERIALS	OTHER			
0	9LR24EFIC	⁴³⁴ 6468	4.86	EV Filtrate	R00	0.82	52	6	Smith				★ 1/2	09/08/87	
1	LRALR-29B	⁴⁰¹ 6466	0.45	High Speed ASB	G02	0.12	52	6	Smith				1/2	09/08/87	
2	90X27WFI C	⁴³⁴ 6468	38.91	EV Filtrate	R00	7.55	52	6	Smith				1/2	09/10/87	
3	90X1WFI	⁴³⁴ 6467	107.00	EV Filtrate	R00	20.90	52	6	Smith				1/2	09/10/87	
4	9LR2EFIA	⁴³⁴ 6467	14.91	EV Filtrate	R00	2.36	52	6	Smith				1/2	09/10/87	
5	9LR24EFIC	⁴³⁴ 6468	.	EV Filtrate	R00	0.04	44	99.9	Smith				3/1 II	09/08/87	
6	90X27WFI C	⁴³⁴ 6468	.	EV Filtrate	R00	0.29	44	99.9	Smith				3/1 II	09/10/87	
7	90X1WFI	⁴³⁴ 6467	.	EV Filtrate	R00	0.70	44	99.9	Smith				3/1 II	09/10/87	
8	9LR2EFIA	⁴³⁴ 6467	.	EV Filtrate	R00	1.90	44	99.9	Smith				3/1 II	09/10/87	
9	8DS25EFIB	⁴³⁴ 6467	4.45	EV Filtrate	R00	0.85	52	6	Smith	2.2 ± 0.13	Particulate		1/2	09/08/87	
TOTALS			Kg	170.28						TOTALS				MST-10 Assay Value <u>NA</u> Instrument ID. _____	
			Pounds	375.3	MST-12 Signature _____ For Gross Weight					MST-12 Signature for Accountability check _____			MST-10 Signature <u>Ronald W Blankenship</u>		
			GROSS WT. Pounds	525.1									QA Data Pkg Approval _____		

The waste in this container was packaged and the MST-12 data on the DMS and the CMSR were collected according to the procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s).

MST-12 Signature Charles X. Fox

★ 05-2-231/0239A

TRU-MST12-DR-02, R01

AK MCB 12/7/87

DISCARDABLE WASTE LOG SHEET

Effective Date 05/01/12

LA87010050542
WASTE PACKAGE SERIAL NUMBER

Page 2 of Page 2

Proc. N-Comb Comb Pu-238

Lead Lined
90 Mil Drum Liner
1/8 Inch Drum Liner

CONTAINER:
open In-Line

Tamper Indicating Seal # A04368
Date Sealed 09/10/87

Waste Code: U/A

ITEM NO	ITEM ID	FROM RM or BOX	PKG WT Kg	MATRIX (MATERIAL)	MEAS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONNEL SIGNATURE	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy
										ORGANICS V% WT.	HAZARDOUS MATERIALS	OTHER		
0	8DS25EFIB	⁴³⁴ 6467	0.45	EX-Substrate	RA0	✓ 0.1344		99.9	<i>[Signature]</i>				31	09/08/87
1			.			.							/	/ /
2			.			.							/	/ /
3			.			.							/	/ /
4			.			.							/	/ /
5			.			.							/	/ /
6			.			.							/	/ /
7			.			.							/	/ /
8			.			.							/	/ /
9			.			.					2.2 2.13 Packaging		/	/ /
TOTALS			Kg	170.42			33.89	52	TOTALS		2.2 2.13	MST-10 Assay Value <u>NA</u> Instrument ID. _____		
			Pounds	375.3			2.76	44	MST-12 Signature for Accountability check		MST-10 Signature <u>Ronald W Blankenship</u>			
			GROSS WT. Pounds	525.1					<i>[Signature]</i>		QA Data Pkg Approval <u>D. D. L. Brown</u>			

The waste in this container was packaged and the MST-12 data on the DMLS and the CMSR were collected according to the procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s).

MST-12 Signature Charles L. Fox

OK MUB 12/1/87

WASTE PROFILE FC

TRU 006

LA53764



LA53764

FORM USE ONLY

Reference Number

C4636

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490

Division/Group NMT / NMT-2	Telephone 7-1193	Mail Stop E501	Technical Area 55	Building PF-114	Room 206
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Method of Characterization Knowledge of Process (KOP) MSDS attached (optional) - OR - Chemical/Physical Analysis (specify below) Request for analysis Analysis attached

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Nonsalvageable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgical	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)
TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 139°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

<p>Waste Origination</p> <p>A. Is this waste generated in a radiation controlled area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.</p>	<p>Radioactivity</p> <p><input type="checkbox"/> Nonradioactive <input type="checkbox"/> Suspect <input checked="" type="checkbox"/> Radioactive</p> <p>Activity Measure Radiation Type Half-life</p> <p><input type="checkbox"/> ≤ 2.0 nC/g <input checked="" type="checkbox"/> alpha <input type="checkbox"/> t^{1/2} < 20 yr</p> <p><input type="checkbox"/> > 2.0 nC/g <input checked="" type="checkbox"/> beta <input checked="" type="checkbox"/> t^{1/2} ≥ 20 yr</p> <p><input type="checkbox"/> > 10.0 nC/g <input checked="" type="checkbox"/> gamma</p> <p><input checked="" type="checkbox"/> > 100 nC/g <input type="checkbox"/> tritium</p>
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WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) <u>Schueler, William T.</u>	Z Number <u>106374</u>	Signature <u>William Schueler</u>	Date <u>10/14/92</u>
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If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). -->	Name (last, first, middle)	Mail Stop
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Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SW46-6010A
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SW46-6020(Mol)
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SW46-6010A
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 6.0 ppm	<input type="checkbox"/> ≥ 6.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
creosol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.00 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

Waste Classification

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Non-RCRA waste | <input type="checkbox"/> RCRA-regulated solid waste | <input checked="" type="checkbox"/> RCRA-regulated hazardous waste | <input type="checkbox"/> Radioactive only |
| <input type="checkbox"/> PCB | <input type="checkbox"/> municipal refuse | <input type="checkbox"/> hazardous waste | <input type="checkbox"/> low-level waste |
| <input type="checkbox"/> non-PCB TSCA waste | <input type="checkbox"/> nonhazardous chemical waste | <input type="checkbox"/> mixed low-level waste | <input type="checkbox"/> transuranic waste |
| <input type="checkbox"/> asbestos | <input type="checkbox"/> administratively controlled waste | <input checked="" type="checkbox"/> mixed transuranic waste | |
| | <input type="checkbox"/> sanitary/industrial sludges | | |

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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EM-8 Reviewer's Signature <i>Flanagan</i>	Date 10/14/92	Cost Center/Program Code for Analysis	Reference Number 04636
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Los Alamos

NATIONAL LABORATORY

Environmental Management
Environmental Stewardship Program
EM, JS01
Los Alamos, New Mexico 87545
(505) 867-6639
FAX (505) 865-8118

Date: October 2, 1996
Refer to: EM/ES-96-253

53764

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

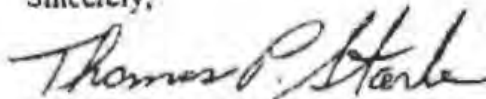
SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: w/s


TS:lma



CONTAINER PROFILE
53764
T-MTRU-TEMP

WS ID: 28588
C ID: 761761
ACTIVE

GENERAL INFORMATION

Container ID:	761761	
Labeled ID:	53764	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28588	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 11-Aug-1993 12:00 am
Quantity (Univ):		Accum Start Date: 11-Aug-1993
Compactible:		Closed Date: 11-Aug-1993
Discard Matrix:		
TID(s):		
Gen Contact:		
Insert By:	WCATS APPLICATION (000000)	
Waste Desc:	(LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.	

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	643.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	110.00 lb
		Net Weight:	533.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000153: C087: L01: R07



CONTAINER PROFILE
53764
T-MTRU-TEMP

WS ID: 28588
 C ID: 761761
 ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____
Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED
 HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	4175		0/0
Not Specified	NA	Carbon Composite	0	3242		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53764
T-MTRU-TEMP

WS ID: 28588
 C ID: 761761
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm ²	Beta/Gama dpm/100 cm ²
<i>Survey ID: 72214, Status: Active</i>							
B/G Survey			= 0.60	=	=	Not Applicable	
Neutron Survey			= 0.40	=	=	Not Applicable	
Smear Results			Not Applicable			= 1.10	= 1.50

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 340576, Date: 08/11/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	2.76E+000	g	0.00E+000	N				NONE
52	3.37E+001	g	0.00E+000	N				NONE
Am-241	9.48E+000	Ci	0.00E+000	Y			Y	
Pu-238	5.77E-002	Ci	0.00E+000	Y			Y	
Pu-239	1.96E+000	Ci	0.00E+000	Y			Y	
Pu-240	4.59E-001	Ci	0.00E+000	Y			Y	
Pu-241	6.97E+000	Ci	0.00E+000	Y			Y	
Pu-242	2.65E-005	Ci	0.00E+000	Y			Y	
U-234	4.19E-006	Ci	0.00E+000	Y			Y	
U-235	7.28E-008	Ci	0.00E+000	Y			Y	

53767

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

CERTIFIED WASTE STORAGE RECORD



LA00000053767

WASTE PACKAGE SERIAL NUMBER

LA 8 7 0 1 0 0 5 0 5 2 1

ORIGIN OF WASTE		ADDITIONAL INFORMATION		TID #	AD 4349
Group	MST-12	D-Suicide/Neutron			
TA	55				
Building	PF-4				
Room	401	Neutron base rate 0.5 mR/hr			TRU CERTIFIABLE

CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT		C - Curie G - Gram		
				Nuclide	Amount			
01	<input checked="" type="checkbox"/> Steel Drum (55 gal.)	Type	Thickness (in.)	P.U.S.2	4.876	E + 1 M		
02	<input type="checkbox"/> Steel Overpack (Drums)			None				
03	<input type="checkbox"/> Steel Box (68 in. X 54 in. X 38.5 in.)			Lead	6.3	A.M.44	9.18	E + 0 M
04	<input type="checkbox"/> Steel Overpack (FRP Box)			Steel				
	<input type="checkbox"/> Other (Describe)	Concrete						
		Other						

HAZARDOUS MATERIALS		Name	EPA Code	Quantity (g)
Gross Wt. (lb.)	5.51	LEAD	D.068	3.81 E + 14
Organic Mat. Wt. (lb.)	4.69			
Organic Mat. Vol. (ml)				
Content Code	1016			
Date Closed (MMDDYY)	07/28/87			

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name: Carl P. Trujillo
Signature: [Signature]
Date: 07/28/87

II. GENERATOR-SITE HEALTH PHYSICS INFORMATION

Surface Dose Rate (mrem/h)	1.51 E + 10	The data in this section were collected as prescribed in approved procedures. The package is properly closed and is safe to handle and transport.	
Survey Meter Model	139 RO3C PAR4	Printed Name	F.E. Smith
Survey Meter Serial No.	003656 002656 004911	Signature	[Signature]
Alpha Contamination (dpm/100cm ²)	10.0 E + 10	Date	8/4/87
Beta-Gamma Cont. (dpm/100cm ²)	10.0 E + 10		

III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-2.

Printed Name: ARTHUR GUTHRIE
Signature: [Signature]
Date: 8/9/11

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Surface Dose Rate (mrem/h)	2.0 E + 10	The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.	
Survey Meter Model	PIC-6A PAR-4	Printed Name	J. VILLAREAL
Survey Meter Serial No.	003169 005209	Signature	[Signature]
Alpha Contamination (dpm/100cm ²)	10.0 E + 10	Date	10-30-87
Beta-Gamma Cont. (dpm/100cm ²)	1.9 E + 10		

V. STORAGE SITE INFORMATION

This package was visually inspected when received and was found to be properly labeled and in good condition. It was accepted according to approved procedures.

Printed Name: ROSILA F. GARCIA
Signature: [Signature]
Date: 12/9/87

Printed Name: [Signature]
Signature: [Signature]
Date: 11/23/87

Package No: MD-33
Layer: 3
Post No: S-10
Date Shipped: 12/9/87

This waste package was stored at this location according to approved procedures.



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code <i>NmL0029AAG</i>	Inspected Items		
Year of Manufacture <i>1913</i>	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number <i>N/A</i>	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	Printed Name <i>Steven Griego</i>	Date <i>7/29/03</i>	
	Signature <i>Steven Griego</i>		

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE Group <i>NMT-2</i>	Technical Area <i>TA-55</i>	Building <i>PF4</i>	Program Code <i>K567</i>							
Additional Information <i>55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM</i>										
<i>T.O.# B 20061</i>										
CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT						
		Type	Thickness (in.)	Nuclide	Amount +/-		Uncertainty +/-		G-Curie M-Grain	
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None								
02	<input type="checkbox"/> Standard Waste Box			<i>Pu-239</i>	<i>4.8176</i>	<i>E +1</i>	<i>. . .</i>	<i>E . .</i>	<i>M</i>	
03	<input checked="" type="checkbox"/> Other (Call TWCO)	<i>LEAD</i>	<i>6.3 E-12</i>	<i>Am-241</i>	<i>9.11410</i>	<i>E +0</i>	<i>. . .</i>	<i>E . .</i>	<i>M</i>	
04	<input type="checkbox"/> RH Canister									
Waste Profile Request Number <i>0, 4, 6, 3, 6</i>										
Carbon Filter ID <i>01 LA 41113 02 LA 41916</i>										
Process Batch Code <i>N/A</i>										
Gross Weight (lb.) <i>16.019 E +12</i>		NONRADIOACTIVE HAZARDOUS MATERIALS								
Organic Material Wt. (lb.) <i>14.619 E +10</i>		Name			EPA Code	Quantity (g)				
Organic Material Volume (lit.) <i>. . . . 0</i>		<i>LEAD SHIELDING</i>			<i>D 0 0 8</i>	<i>3.8 E +14</i>				
TRUCON Code <i>11141A</i>		<i>CADMIUM</i>			<i>D 0 0 6</i>	<i>2.5 E +9</i>				
Date Closed (MMDDYY) <i>07/29/93 07/28/93</i>		<i>CHROMIUM</i>			<i>D 0 0 7</i>	<i>9.7 E +1</i>				
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. This is correct and complete to the best of my knowledge.		<i>LEAD</i>			<i>D 0 0 8</i>	<i>2.5 E +1</i>				
Printed Name <i>Kathleen M. Gruetzmacher</i>		Signature <i>KM Gruetzmacher</i>			Date <i>8/5/93</i>					

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) <i>1.1 E +0</i>	Survey Meter Model <i>RO-3C</i>	Property Number <i>2646</i>
Neutron Dose Rate (mrem/h) <i>7.0 E -1</i>	Survey Meter Model <i>PNR-4</i>	Property Number <i>4909</i>
Total Dose Rate (mrem/h) <i>1.8 E +0</i>	The data in this section were collected according to approved procedures.	
Alpha Contamination (dpm/100cm ²) <i>0.0 E +0</i>	Printed Name <i>RJ Cox</i>	Date <i>8/4/93</i>
Beta Gamma Cont. (dpm/100cm ²) <i>10.0 E +0</i>	Signature <i>RJ Cox</i>	

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA 54 by AR 10-5 <i>015 2/12/93</i>	Printed Name <i>K.G. Britton</i>	Date <i>8-6-93</i>
	Signature <i>K.G. Britton</i>	

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y		Printed Name	Signature
Date Entered in Database	081393	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	090193	Chaei Wiber	Chaei Wiber

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name: GENE E. LOPEZ
Signature: Gene E. Lopez
Date: 8/23/93

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	17.0E-11	Survey Meter Model	RO3C	Property Number	2605
Neutron Dose Rate (mrem/h)	10.9E+10	Survey Meter Model	PNR4	Property Number	5229
Total Dose Rate (mrem/h)	17.0E-11	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	12.4E+10	Printed Name	J.T. Miller	Date	8-27-93
Beta-Gamma Cont. (dpm/100cm ²)	17.8E+10	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Date Received	ORIGINAL STORAGE DATA		
DM	8-25-93	Package Number	Layer	Row Number
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		153	1	7
Printed Name	Date	Column Number	Date Stacked (MM,DD,YY)	
Rick Martinez	8-25-93	15	083093	
Signature		Printed Name	Date	
Rick Martinez		Charlotte Fernandez	9/18/93	

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.

Printed Name: BRUCE LE BRUN
Signature: Bruce Le Brun
Date: 9/13/93

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y		Printed Name	Signature
Date Entered in Database	091193	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	091393	Chaei Wiber	Chaei Wiber

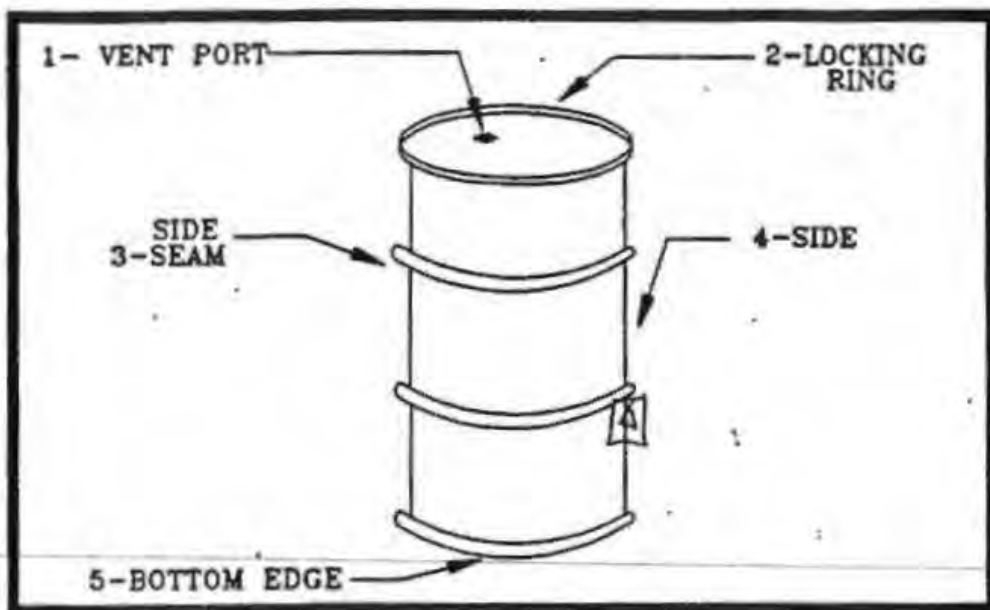
12. DUPLICATE COPY

M M D D Y Y	Printed Name	Signature
1111993	Diana Sandoval	Diana Sandoval

TRU CONTAINER SMEAR SURVEY DATA SHEET . MAILED

AUG 04 1993

TA 3 BUILDING 29 SAMPLE DATE 7-29-93
 RPT R-COX CONTAINER NO. LA00000053767



△ Maximum Gamma Dose Rate 1.1 mR/hr.
 □ Maximum Neutron Dose Rate .7 mRem/hr.

SMEAR NO.	LOCATION	*ALPHA	*BETA-GAMMA
1	VENT PORT	NDA	NDA
2	LOCKING RING	↓	↓
3	SIDE SEAM	↓	↓
4	SIDE	↓	↓
5	BOTTOM EDGE	↓	↓

*dpm/100cm. sq.

GAMMA INSTRUMENT

Model: RO-3C
 P/N: 2646
 CDD: 9-16-93

NEUTRON INSTRUMENT

Model: ESPT PNR-4
 P/N: 8006 4909
 CDD: 9-22-93

DISTRIBUTION:

1. RPT's TA-54 MS J592
2. RCT's TA-3 CMR MS G749
3. _____

ANALYZED BY: David A Barnes
 DATE: 8/3/93

Jay Sundby

2/3/93

K. M. Gruetzmacher

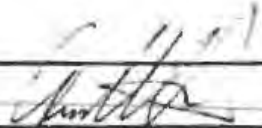
The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480



TRU WASTE CERTIFICATION PROGRAM
NON-CONFORMANCE REPORT

Log No. 00024

ORIGINATOR'S SECTION

Location: TA 55	Hold Tag No.:	
Waste Pkg. Serial No: LA 8701 0050520; 521; 522; 514		
Description of Non-Conformance: Incorrect EPA Hazardous Materials code Lead was recorded as $\emptyset\emptyset\emptyset 8$ in the "EPA Code" on the CWSR It should be D $\emptyset\emptyset 8$		
Print Name: ARTHUR GUTHRIE	Signature: 	Date: 8/9/11

DISPOSITION SECTION

Instructions for Disposition: 1) Change CWSR to correct entry 2) Send copy of NCR to waste generator		
Print Name: ARTHUR GUTHRIE	Signature: 	Date: 8/9/11
The above instructions have been completed as specified.		
Printed Name: ARTHUR GUTHRIE	Signature: 	Date: 8/9/11

DISCARDABLE WASTE LOG SHEET

Effective Date 05/01/87

LA87010050521
WASTE PACKAGE SERIAL NUMBER

Page 1 of Page 1

Proc. N-Comb Comb Pu-238

Lead Lined
90 Mil Drum Liner
1/8 Inch Drum Liner

CONTAINER: open In-Line

Tapeer Indicating Seal # A04349

Date Sealed 07/28/87

Waste Code: N/A

ITH NO	ITEM ID	FROM RM or BOX	PKG WT Kg	MATRIX (MATERIAL)	MERS. CODE	SNM GRAMS	HT	Z	CERTIFIED PERSONNEL SIGNATURE	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy
										ORGANICS VZ	HAZARDOUS MATERIALS	OTHER		
0	70X16EFIB	434 G-468	51.9	EU FILTRATE	R00	12.4552	6.0		C. TRUSTICO				'A	07/23/87
1	70X16EFIC	434 G-468	36.3	EU FILTRATE	R00	8.7252	6.0		C. TRUSTICO				'A	07/28/87
2	7LR20EFIA	434 G-467	36.3	EU FILTRATE	R00	10.7252	6.0		C. TRUSTICO				'A	07/28/87
3	7LR17EFIA	434 G-468	56.8	EU FILTRATE	R00	15.8952	6.0		C. TRUSTICO				'A	07/28/87
4	70X16EFIB	434 G-468	.	EU FILTRATE	R00	2.2844	99.9		C. TRUSTICO				3/II	07/23/87
5	70X16EFIC	434 G-468	.	EU FILTRATE	R00	1.6044	99.9		C. TRUSTICO				3/II	07/28/87
6	7LR20EFIA	434 G-467	.	EU FILTRATE	R00	2.3944	99.9		C. TRUSTICO				3/II	07/28/87
7	7LR17EFIA	434 G-468	0.3	EU FILTRATE	R00	2.8744	99.9		C. TRUSTICO				3/II	07/28/87
8	XSR16IFINE	209 O-202	0.3	CHLORIDE MELT	N03	1.0352	6.0		C. TRUSTICO				1/3	07/28/87
9			.							2.2	2.18 4.69	PACKAGING	'	'

TOTALS	Kg	181.6		48.7652	TOTALS	2.2	2.18 4.69	MST-10 Assay Value <u>NA</u>
	Pounds	400.9	MST-12 Signature For Gross Weight	9.1844				Instrument ID. _____
GROSS WT.	Pounds	551.8	<i>[Signature]</i>		MST-12 Signature for Accountability check			MST-10 Signature <u>Ronald W. Blankenship</u>
								QA Data Pkg Approval <u>A. D. [Signature]</u>

The waste in this container was packaged and the MST-12 data on the DMS and the CWSR were collected according to the procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s).

MST-12 Signature Charles L. Fox

A05-2-468/02011/231/0239A

WASTE PROFILE F

TRU 006

LA53767



LA53767

EM-8 USE ONLY

Reference Number

04636

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490

Division/Group NMT / NMT-2	Telephone 7-1193	Mail Stop E501	Technical Area 55	Building PF-114	Room 206
-------------------------------	---------------------	-------------------	----------------------	--------------------	-------------

Method of Characterization Knowledge of Process (KOP) Chemical/Physical Analysis (specify below) MSDS attached (optional) - OR - Request for analysis Analysis attached

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Nonsalvageable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgic	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)

TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 130°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

Waste Origination

A. Is this waste generated in a radiation controlled area? Yes No

B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) Yes No

C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity

Nonradioactive Suspect Radioactive

Activity Measure	Radiation Type	Half-life
<input type="checkbox"/> ≤ 2.0 nCi/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> t ^{1/2} < 20 yr
<input type="checkbox"/> > 2.0 nCi/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> t ^{1/2} ≥ 20 yr
<input type="checkbox"/> > 10.0 nCi/g	<input checked="" type="checkbox"/> gamma	
<input checked="" type="checkbox"/> > 100 nCi/g	<input type="checkbox"/> neutron	

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) Schueler, William T	Z Number 106374	Signature William Schueler	Date 10/14/92
---	--------------------	-------------------------------	------------------

If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). →

Name (last, first, middle)	Mail Stop
----------------------------	-----------

Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-601CA
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-6020(mo)
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-601CA
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 6.0 ppm	<input type="checkbox"/> ≥ 6.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
creosol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.00 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

Waste Classification

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Non-RCRA waste | <input type="checkbox"/> RCRA-regulated solid waste | <input checked="" type="checkbox"/> RCRA-regulated hazardous waste | <input type="checkbox"/> Radioactive only |
| <input type="checkbox"/> PCB | <input type="checkbox"/> municipal refuse | <input type="checkbox"/> hazardous waste | <input type="checkbox"/> low-level waste |
| <input type="checkbox"/> non-PCB TSCA waste | <input type="checkbox"/> nonhazardous chemical waste | <input type="checkbox"/> mixed low-level waste | <input type="checkbox"/> transuranic waste |
| <input type="checkbox"/> asbestos | <input type="checkbox"/> administratively controlled waste | <input checked="" type="checkbox"/> mixed transuranic waste | |
| | <input type="checkbox"/> sanitary/industrial sludges | | |

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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EM-8 Reviewer's Signature Flanagan	Date 10/14/92	Cost Center/Program Code for Analysis	Reference Number 04636
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Los Alamos
NATIONAL LABORATORY

53767

Environmental Management
Environmental Stewardship Program
EM, JS91
Los Alamos, New Mexico 87545
(505) 667-6639
FAX (505) 665-8118

Date: October 2, 1996
Refer to: EM/ES-96-253

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

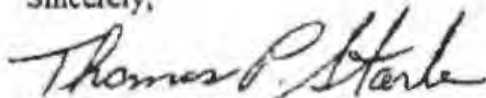
SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: w/s


TS:lma



CONTAINER PROFILE
53767
T-MTRU-TEMP

WS ID: 28588
C ID: 762053
ACTIVE

GENERAL INFORMATION

Container ID:	762053	
Labeled ID:	53767	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28588	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 29-Jul-1993 12:00 am
Quantity (Univ):		Accum Start Date: 29-Jul-1993
Compactible:		Closed Date: 29-Jul-1993
Discard Matrix:		
TID(s):		
Gen Contact:		
Insert By:	WCATS APPLICATION (000000)	
Waste Desc:	(LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.	

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	669.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	110.00 lb
		Net Weight:	559.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000153: C097: L01: R01



CONTAINER PROFILE
53767
T-MTRU-TEMP

WS ID: 28588
 C ID: 762053
 ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____
Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED
 HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	4113		0/0
Not Specified	NA	Carbon Composite	0	4996		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53767
T-MTRU-TEMP

WS ID: 28588
 C ID: 762053
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 72606, Status: Active</i>							
B/G Survey			= 0.70	=	=		Not Applicable
Neutron Survey			= 0.00	=	=		Not Applicable
Smear Results				Not Applicable		= 2.40	= 7.80

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 336527, Date: 07/29/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	9.14E+000	g	0.00E+000	N				NONE
52	4.88E+001	g	0.00E+000	N				NONE
Am-241	3.14E+001	Ci	0.00E+000	Y			Y	
Pu-238	8.36E-002	Ci	0.00E+000	Y			Y	
Pu-239	2.84E+000	Ci	0.00E+000	Y			Y	
Pu-240	6.64E-001	Ci	0.00E+000	Y			Y	
Pu-241	1.01E+001	Ci	0.00E+000	Y			Y	
Pu-242	3.84E-005	Ci	0.00E+000	Y			Y	
U-234	6.07E-006	Ci	0.00E+000	Y			Y	
U-235	1.05E-007	Ci	0.00E+000	Y			Y	

53772

Los Alamos
 Los Alamos National Laboratory
 Los Alamos, New Mexico 87545



LA00000053772

D WASTE STORAGE RECORD

WASTE PACKAGE SERIAL NUMBER

LA 8 8 0 1 0 0 5 0 5 5 7

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	ADDITIONAL INFORMATION
Group <i>MST-12</i>	<i>TRU# H09849</i>
TA <i>55</i>	
Building <i>PF-4</i>	
Program Code <i>K590</i>	

TRU CERTIFIABLE

CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT		C-14 Gross Gram	
				Nuclide	Amount		
01	<input checked="" type="checkbox"/> Steel Drum (55 gal.)	Type None <input checked="" type="checkbox"/> Lead 1.3 (E)-12 <input type="checkbox"/> Steel <input type="checkbox"/> Concrete <input type="checkbox"/> Other	Thickness (in.)	<i>Pu-239</i>	<i>2.5317E+1</i>	<i>1.00</i>	
02	<input type="checkbox"/> Steel Overpack (Drums)			<i>H-235</i>	<i>5.091E+1</i>	<i>0.00</i>	
03	<input type="checkbox"/> Steel Box (66 in. x 54 in. x 38.5 in.)						
04	<input type="checkbox"/> Steel Overpack (FRP Box)						
	<input type="checkbox"/> Other (Describe)						
Drum Lot Code <i>H1</i>	Year of Mfr. <i>87</i>						
Manufacturer's Box Serial Number	<i>N/A</i>						
Process Batch Code	<i>N/A</i>	HAZARDOUS MATERIALS					
Gross Wt. (lb)	<i>5.611E+1</i>	Name	EPA Code	Quantity (g)			
Organic Mat'l Wt. (lb)	<i>4.691E+1</i>	<i>Lead</i>	<i>DIC18</i>	<i>3.81E+1</i>			
Organic Mat'l Vol (%)	<i>1.10</i>			<i>0.1E+1</i>			
Content Code	<i>10.01E</i>			<i>0.1E+1</i>			
Date Closed (MMDDYY)	<i>11.11.87</i>			<i>0.1E+1</i>			

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name <i>Chester A Smith Jr</i>	Signature <i>Chester A Smith Jr</i>	Date <i>11-17-87</i>
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II. GENERATOR—SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	<i>1.01E+1</i>	Survey Meter Model <i>RD-3C</i>	Property No. <i>002610</i>
Neutron Dose Rate (mrem/h)	<i>1.05E+1</i>	Survey Meter Model <i>PNR-4</i>	Property No. <i>004917</i>
Total Dose Rate (mrem/h)	<i>1.51E+1</i>		
Alpha Contamination (dpm/100cm ²)	<i>1.99E+1</i>	The data in this section were collected as prescribed in approved procedures. The package is safe to handle and transport.	
Beta-Gamma Cont. (dpm/100cm ²)	<i>1.39E+1</i>		
Printed Name <i>LOU WILLIAMS</i>	Signature <i>Lou Williams</i>	Date <i>12/2/87</i>	

III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-5.	Printed Name <i>ARTHUR GUTHRIE</i>	Date <i>88/1/15</i>
	Signature <i>Arthur Guthrie</i>	

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	<i>1.09E+1</i>	Survey Meter Model <i>LD3-C</i>	Property No. <i>2615</i>
Neutron Dose Rate (mrem/h)	<i>6.01E-1</i>	Survey Meter Model <i>PNR-4</i>	Property No. <i>5230</i>
Total Dose Rate (mrem/h)	<i>1.51E+1</i>		
Alpha Contamination (dpm/100cm ²)	<i>1.09E+1</i>	The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.	
Beta-Gamma Cont. (dpm/100cm ²)	<i>1.71E+1</i>		
Printed Name <i>Glen Corbin</i>	Signature <i>Glen Corbin</i>	Date <i>2/2/88</i>	

V. STORAGE SITE INFORMATION

Received by	Date received	Pad No. <i>MD-33</i>	Layer <i>+</i>	<input type="checkbox"/> E <input type="checkbox"/> C <input type="checkbox"/> W
This package was visually inspected and found to be properly labeled and in good condition. It was accepted according to approved procedures.		Post No. <i>15-56</i>	Date Stacked <i>2-12-88</i>	
This waste package was stored at this location according to approved procedures.				
Printed Name <i>Eugene S. Geyer</i>	Date <i>1-22-88</i>	Printed Name <i>ROSILA F. GARCIA</i>	Date <i>2-12-88</i>	
Signature <i>Eugene S. Geyer</i>		Signature <i>Rosila F. Garcia</i>		

ptr

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

CERTIFIED WASTE STORAGE RECORD

WASTE PACKAGE SERIAL NUMBER

LA 87010105105517

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE		ADDITIONAL INFORMATION		TID# H04849	
Group	WST-12	Assembled in Mant.			
TA	85				
Building	PF-4				
Room	401				
CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT	
		Type	Thickness (in.)	Nuclide	Amount
01	<input checked="" type="checkbox"/> Steel Drum (55 gal.)				
02	<input type="checkbox"/> Steel Overpack (Drums)				
03	<input type="checkbox"/> Steel Box (66 in. X 54 in. X 38.5 in.)				
04	<input type="checkbox"/> Steel Overpack (FRP Box)				
	<input type="checkbox"/> Other (Describe):				
		<input type="checkbox"/> None			
		<input checked="" type="checkbox"/> Lead	6.31E-12		
		<input type="checkbox"/> Steel			
		<input type="checkbox"/> Concrete			
		<input type="checkbox"/> Other			
Drum Lot Code	H1	Year of Mfg.	1987		
Manufacturer's Box Serial Number	LWA				
Process Batch Code	LWA				
Grms Wt. (lb.)	5.61	5.21E-12			
Organic Mat'l Wt. (lb.)	4.19	1E-10	Lead		
Organic Mat'l Vol. (L)		10			
Content Code	1016				
Date Closed (MMDDYY)	11/17/87				

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name	Signature	Date
Chester A. Smith Jr.	<i>Chester A. Smith Jr.</i>	11-17-87

II. GENERATOR-SITE HEALTH PHYSICS INFORMATION

Surface Dose Rate (mrem/h)	11.5 E + 0	The data in this section were collected as prescribed in approved procedures. The package is properly closed and is safe to handle and transport.			
Survey Meter Model	139 R03C PAR4				
Survey Meter Serial No.	005612 002610 004917				
Alpha Contamination (dpm/100cm ²)	19.9 E + 1	Printed Name	LOU WILLIAMS	Date	12/3/87
Beta-Gamma Cont. (dpm/100cm ²)	13.9 E + 1	Signature	<i>Lou Williams</i>		

III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-2.	Printed Name	Date
	Signature	

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Surface Dose Rate (mrem/h)	• E +	The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.	
Survey Meter Model			
Survey Meter Serial No.			
Alpha Contamination (dpm/100cm ²)	• E +	Printed Name	Date
Beta-Gamma Cont. (dpm/100cm ²)	• E +	Signature	

V. STORAGE SITE INFORMATION

This package was visually inspected when received and was found to be properly labeled and in good condition. It was accepted according to approved procedures.	Pad No.	Layer	<input type="checkbox"/> E <input type="checkbox"/> C <input type="checkbox"/> W
	Post No.	Date Stored	
This waste package was stored at this location according to approved procedures.			
Printed Name	Date	Printed Name	Date
Signature		Signature	



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code	NML0073AAG	Inspected Items		
Year of Manufacture	1913	<input checked="" type="checkbox"/> Flng. Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number	N/A	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.		Printed Name	Date	
		Steven Griego		8-11-93
		Signature		
		Steven Griego		

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	Group	NMT-2	Technical Area	TA-55	Building	PF4	Program Code	K567	
Additional Information: 55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM									
TID # 820235									
CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT					
		Type	Thickness (in.)	Nuclide	Amount ±		Uncertainty ±		C _o Curie M _o Gram
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None							
02	<input type="checkbox"/> Standard Waste Box			Pu-239	2.51317	E +11			M
03	<input checked="" type="checkbox"/> Other (Call TWCO)	LEAD	6.3 E-12	Am-241	5.0191	E +10			M
04	<input type="checkbox"/> RH Canister								
Waste Profile Request Number		04636							
Carbon Filter ID		01 L413121812 02 L413121616							
Process Batch Code		N/A							
Gross Weight (lb.)		16.79 E+12		NONRADIOACTIVE HAZARDOUS MATERIALS					
Organic Material Wt (lb.)		19.69 E+10		Name		EPA Code	Quantity (g)		
Organic Material Volume (L)		110		LEAD SHIELDING		D008	3.8 E+4		
TRUCON Code		1114A		CADMIUM		D006	2.7 E+2		
Date Closed (MMDDYY)		08/11/93		CHROMIUM		D007	1.0 E+2		
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. This data is correct and complete to the best of my knowledge.				LEAD		D008	1.5 E+1		
Printed Name		Kathleen M. Gruetzmacher		Signature		KM Gruetzmacher		Date	9/1/93

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	0.23	Survey Meter Model	ESTER RO-3	Property Number	42646
Neutron Dose Rate (mrem/h)	0.56	Survey Meter Model	PNR-4	Property Number	5220
Total Dose Rate (mrem/h)	0.79	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	0.0 E+0	Printed Name	RJ Cox / STEVE BASEMORE	Date	
Beta-Gamma Cont. (dpm/100cm ²)	0.0 E+0	Signature	Steve Basmore R. R.J. Cox	8/26/93	

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA-54 by AR-10-5	Printed Name	BRUCE LE BRUN	Date	9/1/93
	Signature	Bruce Le Brun		

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	01911493	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	11001193	Printed Name	ARRI WILKER	Signature	ARRI WILKER

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name	GEORGE E. LOPEZ	Signature	George E. Lopez	Date	9/29/93
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7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	13.0E-11	Survey Meter Model	RO3C	Property Number	2620
Neutron Dose Rate (mrem/h)	0.0E+10	Survey Meter Model	PNR 4	Property Number	5229
Total Dose Rate (mrem/h)	13.0E-11	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	1.1E+10	Printed Name	J.T. Miller	Date	9-27-93
Beta-Gamma Cont. (dpm/100cm ²)	14.0E+10	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Rm	Date Received	9-24-93	ORIGINAL STORAGE DATA					
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Pack Number	153	Layer	2	Row Number	8
				Column Number	23	Date Stacked (MM,DD,YY)	092893		
Printed Name	Rick Martner	Date	9-24-93	Printed Name	RENEE SANDOVAL	Date	10/6/93		
Signature	Rick Martner			Signature	Renee Sandoval				

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name	BRUCE LE BRUN	Date	10/25/93
	Signature	Bruce Le Brun		

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	11021893	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	1110193	Printed Name	ARRI WILKER	Signature	ARRI WILKER

12. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	11111993	Printed Name	Renee Sandoval	Signature	Renee Sandoval
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WASTE PROFILE

TRU 006

LA53772



LA53772

EM-8 USE ONLY
Reference Number
C4636

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490

Division/Group <u>NMT / NMT-2</u>	Telephone <u>7-1193</u>	Mail Stop <u>E501</u>	Technical Area <u>SS</u>	Building <u>PF-114</u>	Room <u>206</u>
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Method of Characterization Knowledge of Process (KOP) - OR - Chemical/Physical Analysis (specify below)
 MSDS attached (optional) Request for analysis Analysis attached

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Nonrecoverable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgical	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)
TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 139°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

Waste Origination

A. Is this waste generated in a radiation controlled area? Yes No

B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) Yes No

C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity

Nonradioactive Suspect Radioactive

Activity Measure	Radiation Type	Half-life
<input type="checkbox"/> ≤ 2.0 nCi/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> t ^{1/2} < 20 yr
<input type="checkbox"/> > 2.0 nCi/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> t ^{1/2} ≥ 20 yr
<input type="checkbox"/> > 10.0 nCi/g	<input checked="" type="checkbox"/> gamma	
<input checked="" type="checkbox"/> > 100 nCi/g	<input type="checkbox"/> tritium	

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) <u>Schueler, William T.</u>	Z Number <u>106374</u>	Signature <u>William Schueler</u>	Date <u>10/14/92</u>
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If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). -->	Name (last, first, middle)	Mail Stop
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Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-601C A
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-6020(mod)
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-601C A
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 6.0 ppm	<input type="checkbox"/> ≥ 6.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
creosol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.00 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

Waste Classification

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Non-RCRA waste | <input type="checkbox"/> RCRA-regulated solid waste | <input checked="" type="checkbox"/> RCRA-regulated hazardous waste | <input type="checkbox"/> Radioactive only |
| <input type="checkbox"/> PCB | <input type="checkbox"/> municipal refuse | <input type="checkbox"/> hazardous waste | <input type="checkbox"/> low-level waste |
| <input type="checkbox"/> non-PCB TSCA waste | <input type="checkbox"/> nonhazardous chemical waste | <input type="checkbox"/> mixed low-level waste | <input type="checkbox"/> transuranic waste |
| <input type="checkbox"/> asbestos | <input type="checkbox"/> administratively controlled waste | <input checked="" type="checkbox"/> mixed transuranic waste | |
| | <input type="checkbox"/> sanitary/industrial sludges | | |

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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EM-8 Reviewer's Signature <i>Flanagan</i>	Date 10/14/92	Cost Center/Program Code for Analysis	Reference Number 04636
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2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

DISCARDABLE WASTE LOG SHEET


Effective Date 10/19/87

Page 1 of 1 Pages

2 1 8 7 0 1 0 0 5 0 5 5 7

WASTE PACKAGE SERIAL NUMBER

Proc. N-Comb Comb Pu-238

Vent Clip or Carbon Filter installed installer's INITIALS 

Lead Lined

90 Mil Drum Liner

CONTAINER: open In-Line

Tamper Indicating Seal # A04849

1/8 Inch Drum Liner

Waste Code: N/A

Date Sealed 11-17-87

ITM NO	ITEM ID	FROM RM/BOX	PKG WT Kg	MATRIX (MATERIAL)	MEAS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONNEL	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy
										ORGANICS VZ	HAZARDOUS MATERIALS	OTHER REMARKS		
0	110X2WFL13	434 6468	69.00	EV Filtrate	R00	10.57	52	6	P Smith					11/10/87
1	10LR30EF2	434 6467	106.15	EV Filtrate	R00	13.43	52	6	P Smith					11/10/87
2	10LR30EF1A	434 6468	10.61	EV Filtrate	R00	1.12	52	6	P Smith					11/17/87
3	110X2WFL13	434 6468		EV Filtrate	R00	0.27	44	99.9	P Smith				3/IV	11/10/87
4	10LR30EF2	434 6467		EV Filtrate	R00	4.26	44	99.9	P Smith				3/IV	11/10/87
5	10LR30EF1A	434 6468		EV Filtrate	R00	0.56	44	99.9	P Smith				3/IV	11/17/87
6													/	/ /
7													/	/ /
8													/	/ /
9										2.2	2.13	Packaging	/	/ /
TOTALS Pkg Wt. Kg			185.76	MST-12 signatures for Gross Weight			25.38	52		TOTALS	2.2	2.13	Haz. Mat. Kg	
x 2.2046 = Pkg Wt Lbs			409.53	for Accountability			5.09	44		organics pounds	4.69	MST-10 Assay Value <u>NA</u>		
Scale GROSS WT. Pounds			561.25	for Accountability						QA Data Pkg. Approval		Instrument ID. _____		
55 gal. drum TARE Pounds			151.72	for Accountability						D. B. BROWN		MST-10 Signature <u>Donald W. Kennedy</u>		

This container's waste was packaged and the MST-12 data on the DMS and the CWSR were collected according to procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s). MST-12 Signature Charles L. Fox

* CS-2-231/0239A

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address				A. State Manifest Document Number			
4. Generator's Phone ()				B. State Generator's ID			
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility's ID			
				H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No
				No.	Type		
a. <input checked="" type="checkbox"/> 70 RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918, HIGHWAY ROUTE CONTROLLED QUANTITY 30110, Elemental, AN241, PU230, PU239, PU240, PU241, PU242, 2.4556+01C1, T.I.=0.0 RADIOACTIVE YELLOW III.				1	DR	566	2
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information				EMERGENCY PHONE NO: (505) 567-5211 Dial ERGNO: 685			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name				Signature		Month Day Year	
Ronald G. Salazar				Ron Salazar		11/15/06	
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature	
				Adrian Valdez		11/15/06	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name				Signature		Month Day Year	
Rick Martinez				Rick Martinez		11/15/06	

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address				A. State Manifest Document Number				
				B. State Generator's ID				
4. Generator's Phone ()				C. State Transporter's ID				
5. Transporter 1 Company Name		6. US EPA ID Number		D. Transporter's Phone				
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID				
				F. Transporter's Phone				
9. Designated Facility Name and Site Address		10. US EPA ID Number		G. State Facility's ID				
				H. Facility's Phone				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
				No.	Type			
a. NO RADIOACTIVE MATERIAL, FISSILE, H.O.P., 7, UN2918, HIGHWAY ROUTE CONTROLLED				1	DR	546	1	
b. PU239, PU240, PU241, PU242, 2.555e+01Ci, T.I.-0-0 RADIOACTIVE YELLOW								
c.								
d.								
J. Additional Descriptions for Materials Listed Above					K. Handling Codes for Wastes Listed Above			
(1) DOT (2) DOT								
15. Special Handling Instructions and Additional Information								
-EMERGENCY PHONE NO: (505) 597-6211 DIR, ERGNO: 165								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
Printed/Typed Name				Signature		Month Day Year		
Richard L. Salazar				Bon Salazar				
17. Transporter 1 Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature		Month Day Year		
ADRIAN JONES				adrian jones				
18. Transporter 2 Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature		Month Day Year		
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.								
Printed/Typed Name				Signature		Month Day Year		
Rick Martinez				Rick Martinez				

GENERATOR	UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of		Information in the shaded areas is not required by Federal law.					
	3. Generator's Name and Mailing Address							A. State Manifest Document Number						
	4. Generator's Phone ()							B. State Generator's ID						
	5. Transporter 1 Company Name				6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone					
	7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone					
	9. Designated Facility Name and Site Address							10. US EPA ID Number		G. State Facility's ID				
								H. Facility's Phone						
	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)							12. Containers		13. Total Quantity		14. Unit Wt/Vol		
								No. Type				I. Waste No.		
	a. HM 90. RADIOACTIVE MATERIAL, FISSILE, N.O.S., T, UN2918, HIGHWAY ROUTE CONTROLLED QUANTITIES, ELEMENTAL, AM241, PU238, PU239, PU240, PU241, PU242, 2.455e+01Ci, T-I -O-O RADIOACTIVE YELLOW III							1		DR		346		
b.														
c.														
d.														
J. Additional Descriptions for Materials Listed Above							K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information														
"EMERGENCY PHONE NO: (505) 667-6211" Pls. ERGNO: 165														
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.														
Printed/Typed Name Rocel B. Salazar				Signature Rocel Salazar		Month		Day		Year				
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials													
	Printed/Typed Name Alicia Lopez				Signature Alicia Lopez		Month		Day		Year			
	18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Month		Day		Year			
19. Discrepancy Indication Space														
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
	Printed/Typed Name Rick Martinez				Signature Rick Martinez		Month		Day		Year			

DRUM SURVEY SHEET

TA - 50-69, WCRRF

LOCATION

ROOM: 102

103

104

50-193

BUILDING _____

OTHER _____

CONTAINER NUMBER: 53772

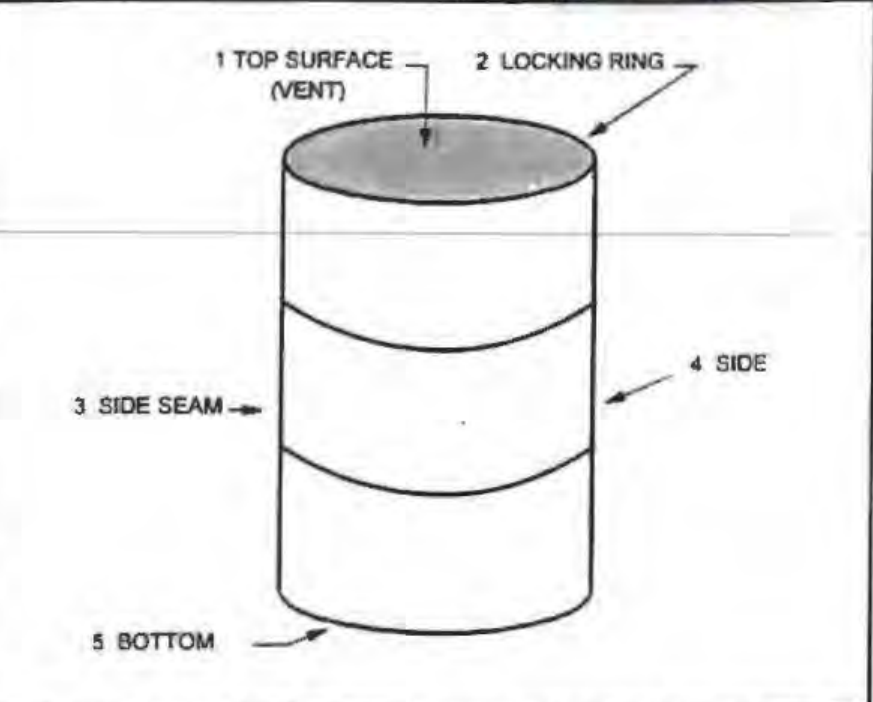
DRUM SURVEY DATE: 9/6/94

SURVEYED BY: K. C. [Signature]
(Signature)

RCT: Salazar

Ault

Other: James Sanchez?



GAMMA INSTRUMENT

MODEL: RO-2

RO-3C

(OTHER) _____

P/N: 3364

CAL DUE DATE: 6/3/96

MAXIMUM GAMMA DOSE RATE

0.5 mR/hr
0 mR/hr

NEUTRON INSTRUMENT

MODEL: ESP-2/NRD

PNR-4

(OTHER) _____

P/N: 8031

CAL DUE DATE: 1/29/97

MAXIMUM NEUTRON DOSE RATE

0 mRem/hr
0 mR/hr

SMEAR	LOCATION	ALPHA*	BETA*
1	TOP SURFACE	10.3	4.60
2	LOCKING RING	7.66	7.36
3	SIDE SEAM	0.964	11.2
4	SIDE	0.84	3.18
5	BOTTOM	5.90	0.629

ALPHA / BETA INSTRUMENT
BERTHOLD LB770, P/N 844236

DISTRIBUTION:

1. RCT's TA-50 MS E516

2. _____

3. _____

APPROVED

Bobby Gonzales

DATE: / /

Stan Bodenstein, CS, 02:15 PM 9/9/96 -, Dewatered Drum Shipment to TA-

Return-Path: <bodenstein@lanl.gov>

X-Sender: sab@wm0.lanl.gov

Date: Mon, 09 Sep 1996 14:15:16 -0600

To: aic@lanl.gov

From: bodenstein@lanl.gov (Stan Bodenstein, CST-7, 5-8462)

Subject: Dewatered Drum Shipment to TA-54

Cc: Triay@lanl.gov, jrh@lanl.gov, shelmick@lanl.gov, grand@lanl.gov,
dvc@lanl.gov, aic@lanl.gov, rickmar@lanl.gov, jbalkey@lanl.gov,
ronwieneke@lanl.gov, kgruetzmacher@lanl.gov, andym@lanl.gov,
gveazey@lanl.gov, dpt@lanl.gov

I-I,

We received the following drums from you as OVERPACKED 55 gallon drums. We dewatered each of the drums at the WCRRF.

Since each of the drums was in very good condition, we will be shipping the following list of drums back to you as 55 gallon drums, WITHOUT the overpacks. Also indicated is the change in weight due to the removal of water.

Please update the database as necessary.

Drum Number	Pounds	
	Initial Weight	Final Weight

53836	532.0	523.8
53746	534.8	528.0
53783	556.0	548.4
53789	538.6	532.2
53204	531.8	529.4
53174	537.6	534.9
53851	554.8	552.1
53771	560.4	556.3
53715	547.2	543.1
54893	539.2	536.5
52054	833.6	813.2
52484	855.2	833.8
53847	527.0	519.4
53790	557.2	548.2
53734	821.0	815.6
53848	534.8	530.2
54002	804.8	798.6
53712	529.8	523.0
52187	862.6	844.2
53824	536.6	530.8
53772	561.6	545.8
53796	554.2	549.6
53722	554.0	545.8
53703	527.2	517.8
53714	531.8	529.4
53814	533.0	519.2
54894	537.4	535.6
53306	539.4	529.8
53842	540.4	528.0
53802	530.6	520.4

Printed for "I-I Chen ,CST-14 , 5-6422" <aic@lanl.gov>

Los Alamos
NATIONAL LABORATORY

Environmental Management
Environmental Stewardship Program
EM-5591
Los Alamos, New Mexico 87545
(505) 867-6639
FAX (505) 866-8118

Date: October 2, 1996
Refer to: EM/ES:96-253

53772

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

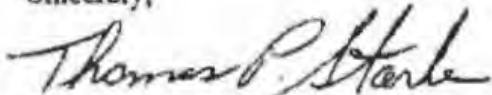
SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: a/s

TS:lma

**LAND DISPOSAL RESTRICTIONS
NOTIFICATION FORM**

A copy of this form must be attached to each Waste Profile Form and to each Uniform Hazardous Waste Manifest required to transport waste from LA pursuant to 40 CFR 268.7(a)(1).

Waste Profile Form No. 41636	Chemical Waste/ Waste Disposal Record No. LA00000053772	Uniform Hazardous Waste Manifest No. 53772	Date of Waste Pickup 9/24/93
--	--	---	--

Check only one.

- Non-wastewater
 Wastewater (as defined in 40 CFR 268.2(f))

NOTIFICATION OF CALIFORNIA LIST APPLICABILITY

Check all that apply.

- Liquid hazardous waste containing PCBs at a concentration of 250 ppm.
 A D001 - D017 liquid waste containing 2134 mg/l of nickel and/or 2130 mg/L of thallium.
 A D001 - D011 waste containing Halogenated Organic Compounds (HOCs) listed in 40 CFR 268, Appendix III, at 21000 ppm.

NOTIFICATION OF "D" CHARACTERISTIC EPA WASTE CODES

Check all that apply.

EPA Waste Code	Waste Description and/or Subcategory (as needed)
<input type="checkbox"/> D001	Ignitable characteristic wastes (except for the Section 261.21(a)(1) High TOC Subcategory) that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
<input type="checkbox"/> D001	High TOC Ignitable Characteristic Liquids Subcategory based on 40 CFR 261.21(a)(1) - Greater than 10% total organic carbon.
<input type="checkbox"/> D002	Corrosive Characteristic Wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
<input type="checkbox"/> D003	Reactive Sulfides Subcategory
<input type="checkbox"/> D003	Reactive Cyanides Subcategory
<input type="checkbox"/> D003	Water Reactive Subcategory
<input type="checkbox"/> D003	Other Reactives Subcategory (based on 261.23(a)(1))
<input type="checkbox"/> D004	
<input type="checkbox"/> D005	
<input checked="" type="checkbox"/> D006	Wastes that exhibit the TC for cadmium
<input type="checkbox"/> D006	Cadmium Containing Benzene Subcategory
<input checked="" type="checkbox"/> D007	
<input checked="" type="checkbox"/> D008	Wastes that exhibit TC for lead
<input type="checkbox"/> D008	Lead Acid Benzene Subcategory
<input checked="" type="checkbox"/> D008	Radioactive Lead Solids Subcategory
<input type="checkbox"/> D009	High Mercury-Organic Subcategory (≥250 mg/kg Hg with organics and not incinerator residues)
<input type="checkbox"/> D009	High Mercury-Inorganic Subcategory (≥250 mg/kg Hg (with inorganics))
<input type="checkbox"/> D009	Low Mercury Subcategory (<250 mg/kg Hg)
<input type="checkbox"/> D009	All D009 wastewaters
<input type="checkbox"/> D009	Elemental mercury contaminated with radioactive materials.
<input type="checkbox"/> D009	Hydraulic oil contaminated with Mercury Radioactive Materials Subcategory
<input type="checkbox"/> D010	
<input type="checkbox"/> D011	

265
7/23/97

<input type="checkbox"/> D012	<input type="checkbox"/> D020	<input type="checkbox"/> D028	<input type="checkbox"/> D036
<input type="checkbox"/> D013	<input type="checkbox"/> D021	<input type="checkbox"/> D029	<input type="checkbox"/> D037
<input type="checkbox"/> D014	<input type="checkbox"/> D022	<input type="checkbox"/> D030	<input type="checkbox"/> D038
<input type="checkbox"/> D015	<input type="checkbox"/> D023	<input type="checkbox"/> D031	<input type="checkbox"/> D039
<input type="checkbox"/> D016	<input type="checkbox"/> D024	<input type="checkbox"/> D032	<input type="checkbox"/> D040
<input type="checkbox"/> D017	<input type="checkbox"/> D025	<input type="checkbox"/> D033	<input type="checkbox"/> D041
<input type="checkbox"/> D018	<input type="checkbox"/> D026	<input type="checkbox"/> D034	<input type="checkbox"/> D042
<input type="checkbox"/> D019	<input type="checkbox"/> D027	<input type="checkbox"/> D035	<input type="checkbox"/> D043

All applicable Underlying Hazardous Constituents in these characteristic wastes must be checked in Table UTS.

**LAND DISPOSAL RESTRICTIONS
NOTIFICATION FORM**

NOTIFICATION FOR F001 – F005 SPENT SOLVENT WASTES

Check all that apply.

Spent solvent wastes with the following constituents only.

<u>EPA Waste Code</u>	<u>Constituents in the waste</u>	
<input type="checkbox"/> F001	<input type="checkbox"/> Acetone.	<input type="checkbox"/> Isobutyl alcohol
<input type="checkbox"/> F002	<input type="checkbox"/> Benzene	<input type="checkbox"/> Methanol
<input type="checkbox"/> F003	<input type="checkbox"/> n-Butyl alcohol	<input type="checkbox"/> Methylene chloride
<input type="checkbox"/> F004	<input type="checkbox"/> Carbon disulfide (wastewater only)	<input type="checkbox"/> Methyl ethyl ketone
<input type="checkbox"/> F005	<input type="checkbox"/> Carbon tetrachloride	<input type="checkbox"/> Methyl isobutyl ketone
	<input type="checkbox"/> Chlorobenzene	<input type="checkbox"/> Nitrobenzene
	<input type="checkbox"/> o-cresol	<input type="checkbox"/> Pyridine
	<input type="checkbox"/> m-cresol	<input type="checkbox"/> Tetrachloroethylene
	<input type="checkbox"/> p-cresol	<input type="checkbox"/> Toluene
	<input type="checkbox"/> Cresol-mixed isomers (Cresylic acid)	<input type="checkbox"/> 1,1,1-Trichloroethane
	<input type="checkbox"/> Cyclohexanone (wastewater only)	<input type="checkbox"/> 1,1,2-Trichloroethane
	<input type="checkbox"/> o-Dichlorobenzene	<input type="checkbox"/> 1,1,2-Trichloro – 1,2,2-trifluoroethane
	<input type="checkbox"/> Ethyl acetate	<input type="checkbox"/> Trichloroethylene
	<input type="checkbox"/> Ethyl benzene	<input type="checkbox"/> Trichloromonofluoromethane
	<input type="checkbox"/> Ethyl ether	<input type="checkbox"/> Xylenes – mixed isomers (o-, m-, p-xylene)

Check all that apply.

<u>EPA Waste Codes</u>	<u>Constituents in the waste</u>
<input type="checkbox"/> F003	<input type="checkbox"/> Carbon disulfide
<input type="checkbox"/> F005	<input type="checkbox"/> Cyclohexanone
	<input type="checkbox"/> Methanol

Note: Treatment standards for these constituents apply to F001 – F005 wastes which contain only one, two, or all three of these constituents.

Check only one, if applicable.

<u>EPA Waste Code</u>	<u>Constituents in the waste</u>
<input type="checkbox"/> F005	<input type="checkbox"/> Containing 2-nitropropane as the only listed F001 – F005 solvent.
	<input type="checkbox"/> Containing 2-ethoxyethanol as the only listed F001 – F005 solvent.

NOTIFICATION FOR OTHER "F" WASTES

Check only one, if applicable.


- F006
- F007
- F008
- F009
- F027



CONTAINER PROFILE
53772
T-MTRU-TEMP

WS ID: 28588
C ID: 767991
ACTIVE

GENERAL INFORMATION

Container ID:	767991	
Labeled ID:	53772	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28588	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 11-Aug-1993 12:00 am
Quantity (Univ):		Accum Start Date: 11-Aug-1993
Compactible:		Closed Date: 11-Aug-1993
Discard Matrix:		
TID(s):		
Gen Contact:		
Insert By:	WCATS APPLICATION (000000)	
Waste Desc:	(LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.	

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	628.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	82.00 lb
		Net Weight:	486.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS
Current: LANL: 54-G: 000153: C043: L01: R09



CONTAINER PROFILE
53772
T-MTRU-TEMP

WS ID: 28588
 C ID: 767991
 ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____

Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	3282		0/0
Not Specified	NA	Carbon Composite	0	DJ-616		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53772
T-MTRU-TEMP

WS ID: 28588
 C ID: 767991
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm ²	Beta/Gama dpm/100 cm ²
<i>Survey ID: 73671, Status: Active</i>							
B/G Survey			= 0.30	=	=		Not Applicable
Neutron Survey			= 0.00	=	=		Not Applicable
Smear Results				Not Applicable		= 1.10	= 4.00

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 338829, Date: 08/11/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	5.09E+000	g	0.00E+000	N				NONE
52	2.54E+001	g	0.00E+000	N				NONE
Am-241	1.75E+001	Ci	0.00E+000	Y			Y	
Pu-238	4.35E-002	Ci	0.00E+000	Y			Y	
Pu-239	1.48E+000	Ci	0.00E+000	Y			Y	
Pu-240	3.46E-001	Ci	0.00E+000	Y			Y	
Pu-241	5.25E+000	Ci	0.00E+000	Y			Y	
Pu-242	2.00E-005	Ci	0.00E+000	Y			Y	
U-234	3.16E-006	Ci	0.00E+000	Y			Y	
U-235	5.49E-008	Ci	0.00E+000	Y			Y	

53841

Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545



LA00000053841

WASTE STORAGE RECORD

WASTE PACKAGE SERIAL NUMBER

LA 8 8 0 1 0 0 5 1 1 0 3

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	ADDITIONAL INFORMATION
Group <i>WST-12</i>	<i>TFD# H0505300</i>
TA <i>52</i>	
Building <i>PF-7</i>	
Program Code <i>X530</i>	
	<i>Fixed Alpha NDA</i>
	<i>LUD 139 003601</i>

CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT		C - Curie M - Green		
				Nuclide	Amount			
01	<input checked="" type="checkbox"/> Steel Drum (55 gal)	Type	Thickness (in.)	<i>Pu-238</i>	<i>5.22E+1</i>	<i>14</i>		
02	<input checked="" type="checkbox"/> Steel Overpack (Drums)			<i>Co-60</i>	<i>4.05E+0</i>	<i>14</i>		
03	<input type="checkbox"/> Steel Box (66 in. X 54 in. X 38.5 in.)			<input checked="" type="checkbox"/> Lead	<i>6.31E-2</i>	<i>Pu-238</i>	<i>5.62E+0</i>	<i>14</i>
04	<input type="checkbox"/> Steel Overpack (FRP Box)			<input type="checkbox"/> Steel	<i>1.94E-1</i>	<i>Co-60</i>	<i>3.81E+0</i>	<i>14</i>
	<input type="checkbox"/> Other (Describe)	<input type="checkbox"/> Concrete	<i>1.0E+0</i>					
	<input type="checkbox"/> Other	<input type="checkbox"/> Other	<i>1.0E+0</i>					
Drum Lot Code <i>1H1</i>	Year of Mfr. <i>57</i>							
Manufacturer's Box Serial Number								
Process Batch Code <i>W/A</i>		HAZARDOUS MATERIALS						
Gross Wt. (lb.) <i>5.54E+1</i>		Name	EPA Code	Quantity (g)				
Organic Mat'l Wt. (lb.) <i>4.69E+1</i>		<i>Lead</i>	<i>DR05</i>	<i>3.51E+4</i>				
Organic Mat'l Vol. (L)								
Content Code <i>W/E16</i>								
Date Closed (MMDDYY) <i>10/21/78</i>								

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name <i>Chester H Smith Sr</i>	Signature <i>Chester H Smith Sr</i>	Date <i>05-19-88</i>
--	-------------------------------------	----------------------

II. GENERATOR-SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) <i>10.4E+0</i>	Survey Meter Model <i>Ro-3c</i>	Property No. <i>002659</i>
Neutron Dose Rate (mrem/h) <i>10.0E+0</i>	Survey Meter Model <i>PNR-4</i>	Property No. <i>005238</i>
Total Dose Rate (mrem/h) <i>10.4E+0</i>		
Alpha Contamination (dpm/100cm ²) <i>1.3E+1</i>	The data in this section were collected as prescribed in approved procedures.	
Beta-Gamma Cont. (dpm/100cm ²) <i>1.5E+1</i>	The package is safe to handle and transport.	
Printed Name <i>Robert E. Valdez</i>	Signature <i>Robert E. Valdez</i>	Date <i>5-25-88</i>

III. HSE-7 SOLID-WASTE RECORDS OFFICE INFORMATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-5	Printed Name BRUCE LE BRUN	Date <i>7/13/88</i>
	Signature <i>Bruce Le Brun</i>	

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) <i>4.0E-1</i>	Survey Meter Model <i>Ro-3c</i>	Property No. <i>2620</i>
Neutron Dose Rate (mrem/h) <i>5.0E-1</i>	Survey Meter Model <i>PNR-4</i>	Property No. <i>4901</i>
Total Dose Rate (mrem/h) <i>9.0E-1</i>		
Alpha Contamination (dpm/100cm ²) <i>10.0E+1</i>	The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.	
Beta-Gamma Cont. (dpm/100cm ²) <i>10.0E+1</i>		
Printed Name <i>Glenn Corbin</i>	Signature <i>Glenn Corbin</i>	Date <i>7/28/81</i>

V. STORAGE SITE INFORMATION

Received by <i>[Signature]</i>	Date received <i>7-26-88</i>	Pad No. <i>8</i>	Layer <i>1</i>	<input type="checkbox"/> E <input type="checkbox"/> C <input checked="" type="checkbox"/> W
This package was visually inspected and found to be properly labeled and in good condition. It was accepted according to approved procedures.		Post No. <i>20</i>	Date Stacked <i>9-2-88</i>	
This waste package was stored at this location according to approved procedures.				
Printed Name <i>Eugene Johnson</i>	Date <i>7-21-88</i>	Printed Name <i>Rosita Garcia</i>	Date <i>9-2-88</i>	
Signature <i>Eugene Johnson</i>		Signature ROSITA F. GARCIA		



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code: <i>Nml-185-AAG</i>	Inspected Items		
Year of Manufacture: <i>1913</i>	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number: <i>N/A</i>	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging	Printed Name: <i>Steven Griego</i>	Date: <i>7/29/93</i>	
	Signature: <i>Steven Griego</i>		

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	Group: <i>NMT-2</i>	Technical Area: <i>TA-55</i>	Building: <i>PF4</i>	Program Code: <i>K567</i>				
Additional Information: <i>55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM</i>								
<i>TID # B20090</i>								
CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT				C-Curie Mk.Gram
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None		Nuclide	Amount +/-		Uncertainty +/-	
02	<input type="checkbox"/> Standard Waste Box	Type	Thickness (in.)	<i>PIU152</i>	<i>2.362</i>	<i>E +11</i>	<i>. E </i>	<i>M</i>
03	<input checked="" type="checkbox"/> Other (Call TWOC)	<i>LEAD</i>	<i>6.3 E-12</i>	<i>PIU153</i>	<i>8.6710</i>	<i>E +10</i>	<i>. E </i>	<i>M</i>
04	<input type="checkbox"/> RH Canister			<i>AM144</i>	<i>3.81010</i>	<i>E +10</i>	<i>. E </i>	<i>M</i>
Waste Profile Request Number: <i>04636</i>								
Carbon Filter ID: <i>01 LA 1411810</i> <i>02 LA 141771</i>								
Process Batch Code: <i>N/A</i>								
Gross Weight (lb.): <i>16.712 E +12</i>		NONRADIOACTIVE HAZARDOUS MATERIALS						
Organic Material Wt. (lb.): <i>14.619 E +10</i>				Name	EPA Code	Quantity (g)		
Organic Material Volume (%): <i>110</i>				<i>LEAD SHIELDING</i>	<i>D008</i>	<i>3.8 E +4</i>		
TRUCON Code: <i>111A A</i>				<i>CADMIUM</i>	<i>D006</i>	<i>2.3 E +0</i>		
Date Closed (MMDDYY): <i>07/29/93</i>				<i>CHROMIUM</i>	<i>D007</i>	<i>8.7 E +1</i>		
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. The data are correct and complete to the best of my knowledge.				<i>LEAD</i>	<i>D008</i>	<i>1.3 E +1</i>		
Printed Name: <i>Kathleen M. Gruetzmacher</i>		Signature: <i>KM Gruetzmacher</i>		Date: <i>8/5/93</i>				

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h): <i>5.0 E -1</i>	Survey Meter Model: <i>RO-3C</i>	Property Number: <i>2646</i>
Neutron Dose Rate (mrem/h): <i>0.0 E +0</i>	Survey Meter Model: <i>PNR-4</i>	Property Number: <i>4909</i>
Total Dose Rate (mrem/h): <i>5.0 E -1</i>	The data in this section were collected according to approved procedures	
Alpha Contamination (dpm/100cm ²): <i>0.0 E +0</i>	Printed Name: <i>RJ Cox</i>	Date: <i>8/4/93</i>
Beta-Gamma Cont. (dpm/100cm ²): <i>0.0 E +0</i>	Signature: <i>RJ Cox</i>	

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA 54 by AR 10.5.	Printed Name: <i>J. Minton Hughes</i>	Date: <i>8-6-93</i>
	Signature: <i>J. Minton Hughes</i>	

THIS PAGE FOR EM-7 USE ONLY



5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	018 116 913	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	09 01 93	Printed Name	ARRI Wilder	Signature	Arri Wilder

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name	Gene E. Lopez	Signature	Gene E. Lopez	Date	8/23/92
--------------	---------------	-----------	---------------	------	---------

2/1-93 9-1-93 CY **7. RECEIVING SITE HEALTH PHYSICS INFORMATION**

Gamma Dose Rate (mrem/h)	14.0 E -1	Survey Meter Model	R03C	Property Number	2605
Neutron Dose Rate (mrem/h)	13.0 E -1	Survey Meter Model	PNR4	Property Number	5229
Total Dose Rate (mrem/h)	17.0 E -1	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	13.4 E +10	Printed Name	J.T. Miller	Date	8-27-93
Beta-Gamma Cont. (dpm/100cm ²)	12.1 E +10	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Rm	Date Received	8-25-93	ORIGINAL STORAGE DATA					
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Part Number	153	Layer	2	Row Number	2
				Column Number	13	Date Stacked (MM,DD,YY)	08/30/93		
Printed Name	Rick Martinez	Date	8-25-93	Printed Name	Charlotte Fernandez	Date	9/18/93		
Signature	Rick Martinez	Signature	Charlotte Fernandez						

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name	BRUCE LE BRUN	Date	9/13/93
	Signature	Bruce Le Brun		

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	09 11 93	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	09 13 93	Printed Name	ARRI Wilder	Signature	Arri Wilder

12. DUPLICATE COPY

M M D D Y Y

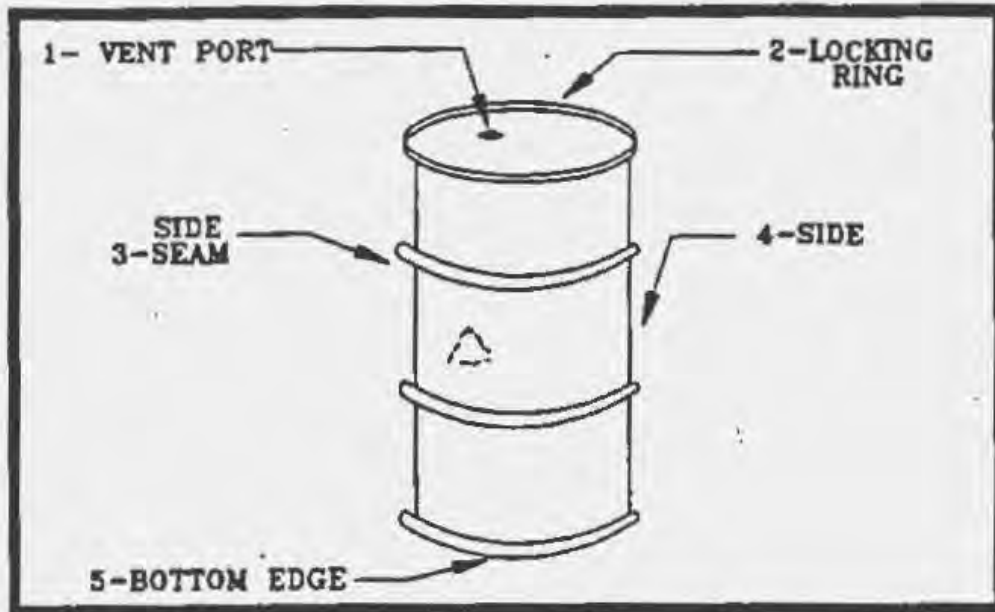
Date Duplicate Filed	11 01 93	Printed Name	Beneé Sandoval	Signature	Beneé Sandoval
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TRU CONTAINER SMEAR SURVEY DATA SHEET

MAILED

AUG 04 1993

TA 3 BUILDING 29 SAMPLE DATE 7-29-93
 RPT R-COX CONTAINER NO. LA00000053841



△ Maximum Gamma Dose Rate 0.5 mR/hr.
 □ Maximum Neutron Dose Rate 0.0 mRem/hr.

SMEAR NO.	LOCATION	*ALPHA	*BETA-GAMMA
1	VENT PORT	NDA	NDA
2	LOCKING RING	↓	↓
3	SIDE SEAM	↓	↓
4	SIDE	↓	↓
5	BOTTOM EDGE	↓	↓

*dpm/100cm. sq.

GAMMA INSTRUMENT
 Model: RO-3C
 P/N: 2646
 CDD: 9-16-93

NEUTRON INSTRUMENT
 Model: ESP-1 PNR-4
 P/N: 8006 4909
 CDD: 9-22-93

DISTRIBUTION:

1. RPT's TA-54 MS J592
2. RCT's TA-3 CMR MS G749
3. _____

ANALYZED BY: Ralph Vignery
 DATE: 8-3-93

2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

DISCARDABLE WASTE LOG SHEET

Effective Date 10/19/87

Page 2 of 1 Pages

1 A B A O I N O 5 1 1 0 3

WASTE PACKAGE SERIAL NUMBER

Proc. N-Comb Comb Pu-238

Vent Clip or Carbon Filter installed installer's INITIAL: S

Lead Lined

90 Mil Drum Liner

1/8 Incl Drum Liner

CONTAINER: open In-line

Tape Indicating Seal # A05053

Date Sealed 05-17-88

Waste Code: N/A

ITEM NO	ITEM ID	FROM DRUM/BOX	PKG WT Kg	MATERIAL (MATERIAL)	MEAS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONNEL	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy
										ORGANICS % WT.	HAZARDOUS MATERIALS	OTHER REMARKS		
0	5RR4WF1B	434 2468	119.42	Nitrate Solution Res	R00	23.62	52	6.9	Smith				21 II	05/17/88
1	50X6WF1A	434 2468	62.31	Nitrate Solution Res	R00	9.67	52	6.0	Smith				21 II	05/17/88
2	5RR4WF1B	434 2468		Nitrate Solution Res	R00	3.23	44	99.9	Smith				21 IV	05/17/88
3	50X6WF1A	434 2468		Nitrate Solution Res	R00	0.58	44	99.9	Smith				24 IV	05/17/88
4														
5														
6														
7														
8														
9										2.2	2.13	Package		
TOTALS Pkg Wt. Kg			181.93	MST-12 signatures for Grg. Weight		32.29	TOTALS		2.2	2.13	Haz. Mat. Kg			
x 2.2046 = Pkg Wt Lbs			400.64	for Accountability		4.65	organics pounds		4.69	MST-10 Assay Value				
5 gal. drum TAPE Pounds			153.33			3.67	DR Data Pkg. Approval			Instrument ID.				
scale W/DSS WT. Pounds			553.97			3.80	W/DSS 7/8/88			MST-10 Signature				
This container's waste was packaged and the MST-12 data on the DMS and the CWSP were collected according to procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s). MST-12 Signature Charles L. Fox														

WASTE PROFILE

TRU 006

LA53841



LA53841

EM-8 USE ONLY
Reference Number C4636

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490

Division/Group NMT / NMT-2	Telephone 7-1193	Mail Stop E501	Technical Area 55	Building PF-114	Room 206
-------------------------------	---------------------	-------------------	----------------------	--------------------	-------------

Method of Characterization Knowledge of Process (KOP) Chemical/Physical Analysis (specify below) Request for analysis Analysis attached
 MSDS attached (optional) - OR -

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste reags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Nonsegregable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgic	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)

TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 139°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

Waste Origination

A. Is this waste generated in a radiation controlled area? Yes No

B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) Yes No

C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity

<input type="checkbox"/> Nonradioactive	<input type="checkbox"/> Suspect	<input checked="" type="checkbox"/> Radioactive
Activity Measure	Radion Type	Half-life
<input type="checkbox"/> ≤ 2.0 nCi/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> 1" < 20 yr
<input type="checkbox"/> > 2.0 nCi/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> 1" ≥ 20 yr
<input type="checkbox"/> > 10.0 nCi/g	<input checked="" type="checkbox"/> gamma	
<input checked="" type="checkbox"/> > 100 nCi/g	<input type="checkbox"/> tritium	

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) Schueler, William T.	Z Number 106374	Signature William Schueler	Date 10/14/92
--	--------------------	-------------------------------	------------------

If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional) -->	Name (last, first, middle)	Mail Stop
--	----------------------------	-----------

Toxic Metals (indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SW496-6010A
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SW496-6020(mo)
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SW496-603A
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP

Organic Compounds (indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 6.0 ppm	<input type="checkbox"/> ≥ 6.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
cresol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

Waste Classification

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Non-RCRA waste | <input type="checkbox"/> RCRA-regulated solid waste | <input checked="" type="checkbox"/> RCRA-regulated hazardous waste | <input type="checkbox"/> Radioactive only |
| <input type="checkbox"/> PCB | <input type="checkbox"/> municipal refuse | <input type="checkbox"/> hazardous waste | <input type="checkbox"/> low-level waste |
| <input type="checkbox"/> non-PCB TSCA waste | <input type="checkbox"/> nonhazardous chemical waste | <input type="checkbox"/> mixed low-level waste | <input type="checkbox"/> transuranic waste |
| <input type="checkbox"/> asbestos | <input type="checkbox"/> administratively controlled waste | <input checked="" type="checkbox"/> mixed transuranic waste | |
| | <input type="checkbox"/> sanitary/industrial sludges | | |

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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EM-8 Reviewer's Signature <i>[Signature]</i>	Date 10/14/92	Cost Center/Program Code for Analysis	Reference Number 04636
---	------------------	---------------------------------------	---------------------------

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NMO890010515 DAVIS V CHRISTENSEN	Manifest No. 53840	2. Page 1 of 1	Information in the shaded areas is not required by Federal law	
3. Generator's Name and Mailing Address Los Alamos National Laboratory TA54 AREA G MS Los Alamos NM 87545 505 66-				A. State Manifest Document Number		
4. Generator's Phone ()				B. State Generator's ID		
5. Transporter 1 Company Name LANL		6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address Los Alamos National Laboratory RONALD G SALAZAR TA50 WCRF Los Alamos, NM 87545		10. US EPA ID Number		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone 505 66-		
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity	14. Unit Wt/Vol
	a. Waste RADIOACTIVE MATERIAL, FISSIONABLE, N.O.S., 7, UN2918 Solid, Elemental, AM241, PU238, PU239, PU240, PU241, PU242, 3.349e+01Ci, T.I.=0.5 RADIOACTIVE YELLOW II,		No.	Type	650	P
	b.					
	c.					
	d.					
J. Additional Descriptions for Materials Listed Above 11a. DOOR				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information EMERGENCY PHONE NO: (505) 667-6211* 11a. ERGNO: 165 Road Closure Required TWSR#: 53840 HMTF#: 16164						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name DAVIS CHRISTENSEN			Signature <i>Davis Christensen</i>		Month Day Year 10/11/96	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials					
	Printed/Typed Name FRED P. MOYA			Signature <i>Fred P Moya</i>		Month Day Year 11/01/1996
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year	
19. Discrepancy Indication Space						
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					
	Printed/Typed Name Ronald G. Salazar			Signature <i>Ron Salazar</i>		Month Day Year 11/01/1996

HMTF REVIEW
 APPROVED
 DISCREPANCY
10/9/96 GM

Los Alamos
NATIONAL LABORATORY

53841

Environmental Management
Environmental Stewardship Program
EM, J501
Los Alamos, New Mexico 87545
(505) 867-8638
FAX (505) 865-8118

Date: October 2, 1996
Refer to: EM/ES-96-253

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: w/s

TS:lma



CONTAINER PROFILE
53841
T-MTRU-TEMP

WS ID: 28588
C ID: 768087
ACTIVE

GENERAL INFORMATION

Container ID:	768087	
Labeled ID:	53841	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28588	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 29-Jul-1993 12:00 am
Quantity (Univ):		Accum Start Date: 29-Jul-1993
Compactible:		Closed Date: 29-Jul-1993

Discard Matrix:

TID(s):

Gen Contact:

Insert By: WCATS APPLICATION (000000)

Waste Desc: (LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	672.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	110.00 lb
		Net Weight:	562.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS

Current: LANL: 54-G: 000232: C014: L01: R08



CONTAINER PROFILE
53841
T-MTRU-TEMP

WS ID: 28588
 C ID: 768087
 ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____
Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	477		0/0
Not Specified	NA	Carbon Composite	0	4180		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53841
T-MTRU-TEMP

WS ID: 28588
 C ID: 768087
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 73783, Status: Active</i>							
B/G Survey			= 0.40	=	=	Not Applicable	
Neutron Survey			= 0.30	=	=	Not Applicable	
Smear Results			Not Applicable			= 3.40	= 2.10

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 337081, Date: 07/29/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	3.80E+000	g	0.00E+000	N				NONE
52	2.36E+001	g	0.00E+000	N				NONE
53	8.67E+000	g	0.00E+000	N				NONE
Am-241	1.30E+001	Ci	0.00E+000	Y			Y	
Pu-238	8.50E-002	Ci	0.00E+000	Y			Y	
Pu-239	1.87E+000	Ci	0.00E+000	Y			Y	
Pu-240	4.88E-001	Ci	0.00E+000	Y			Y	
Pu-241	8.17E+000	Ci	0.00E+000	Y			Y	
Pu-242	4.29E-005	Ci	0.00E+000	Y			Y	
U-234	6.72E-006	Ci	0.00E+000	Y			Y	
U-235	6.79E-008	Ci	0.00E+000	Y			Y	

53848

Los Alamos
 Los Alamos National Laboratory
 Los Alamos, New Mexico 87545



WASTE STORAGE RECORD

WASTE PACKAGE SERIAL NUMBER
 LA 8 B 01 005 01110

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	ADDITIONAL INFORMATION
Group: MSF-12	TID# A0-442
TA: 55	
Building: PF-4	FIXED Alpha - NPA
Program Code: A530	LUD 134 3533

CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT		C - Curie M - Gram
				Nuclide	Amount	
01	<input checked="" type="checkbox"/> Steel Drum (55 gal.)	Type	Thickness (in.)	Pic 52	4.185E+1	ML
02	<input type="checkbox"/> Steel Overpack (Drums)			Am 241	4.430E+1	ML
03	<input type="checkbox"/> Steel Box (68 in. X 54 in. X 38.5 in.)	<input type="checkbox"/> Lead	6.31E-2			
04	<input type="checkbox"/> Steel Overpack (FRP Box)	<input type="checkbox"/> Steel				
	<input type="checkbox"/> Other (Describe)	<input type="checkbox"/> Concrete				
	<input type="checkbox"/> Other					

Drum Lot Code: EI	Year of Mfr: 1987	HAZARDOUS MATERIALS	
Manufacturer's Box Serial Number: VPA	Process Batch Code: VPA	Name	EPA Code
Gross Wt. (lb): 5.319E+1	Organic Matl Wt. (lb): 4.619E+1	Lead	DL08
Organic Matl Vol (l): 1.10	Content Code: DL08		3.8E+1
Date Closed (MMDDYY): 10/27/88			

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name: Chester A. Smith Jr. Signature: [Signature] Date: 06-03-88

II. GENERATOR - SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h): 0.5E+0	Survey Meter Model: R0-3C	Property No.: 2659
Neutron Dose Rate (mrem/h): 0.5E+0	Survey Meter Model: PNR-4	Property No.: 4903
Total Dose Rate (mrem/h): 1.0E+0		

Alpha Contamination (dpm/100cm ²): 19.6E+0	Beta-Gamma Cont. (dpm/100cm ²): 1.7E+1	The data in this section were collected as prescribed in approved procedures. The package is safe to handle and transport.
Printed Name: JAMES B. SANCHEZ	Signature: [Signature]	

III. HSE-7 SOLID WASTE RECORDS OFFICE INFORMATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-5.

Printed Name: BRUCE LE BRUN Date: 7/12/88
 Signature: [Signature]

IV. STORAGE-SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h): 1.3E+0	Survey Meter Model: R0-3C	Property No.: 7620
Neutron Dose Rate (mrem/h): 5.0E-1	Survey Meter Model: PNR-4	Property No.: 4901
Total Dose Rate (mrem/h): 1.8E+0		

Alpha Contamination (dpm/100cm ²): 10.0E+0	Beta-Gamma Cont. (dpm/100cm ²): 10.0E+0	The data in this section were collected at the TA-54 waste storage/disposal site as defined in approved procedures. The package is acceptable for handling and storage.
Printed Name: Glenn Corbin	Signature: [Signature]	

V. STORAGE SITE INFORMATION

Received by: [Signature] Date received: 7.26.88 MD-33

This package was visually inspected and found to be properly labeled and in good condition. It was accepted according to approved procedures.

Printed Name: Eugene Salazar Date: 7-24-88
 Signature: [Signature]

Post No.: 10 Date Stacked: 9-2-88
 This waste package was stored at this location according to approved procedures.

Printed Name: Rosita F. Garcia Date: 9-2-88
 Signature: [Signature]



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code <i>Nm L0245AA6</i>	Inspected Items		
Year of Manufacture <i>1913</i>	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number <i>N/A</i>	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	Printed Name <i>Steven Grigo</i>	Date <i>8-5-93</i>	
	Signature <i>Steven Grigo</i>		

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE Group <i>NMT-2</i>	Technical Area <i>TA-55</i>	Building <i>PF4</i>	Program Code <i>K567</i>
Additional Information <i>55-GAL. CEMENT DRUM OVERPACKED IN 85-GAL. ENPAC POLY-LINED DRUM</i>			

TID # B 20201

CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT				C=Curie M=Gram
		Type	Thickness (in.)	Nuclide	Amount +/-	Uncertainty +/-		
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None						
02	<input type="checkbox"/> Standard Waste Box			<i>Pu-239</i>	<i>4.11815E+11</i>	<i>1</i>	<i>1</i>	<i>M</i>
03	<input checked="" type="checkbox"/> Other (Call TWOD)	<i>LEAD</i>	<i>6.3E-12</i>	<i>Am-241</i>	<i>4.41310E+10</i>	<i>1</i>	<i>1</i>	<i>M</i>
04	<input type="checkbox"/> RH Canister							
Waste Profile Request Number <i>04636</i>								
Carbon Filter ID <i>01 LA 411214</i> <i>02 SP 3131010</i>								
Process Batch Code <i>N/A</i>								
Gross Weight (lb) <i>16.512E+12</i>		NONRADIOACTIVE HAZARDOUS MATERIALS						
Organic Material Wt. (%) <i>14.619E+10</i>		Name		EPA Code	Quantity (g)			
Organic Material Volume (%) <i>1110</i>		<i>LEAD SHIELDING</i>		<i>D008</i>	<i>3.8E+14</i>			
TRUCON Code <i>11141A</i>		<i>CADMIUM</i>		<i>D006</i>	<i>2.3E+10</i>			
Date Closed (MMDDYY) <i>08/05/93</i> <i>052788</i>		<i>CHROMIUM</i>		<i>D007</i>	<i>9.0E+10</i>			
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. The data are correct and complete to the best of my knowledge.				<i>LEAD</i>		<i>D008</i>		<i>1.3E+11</i>
Printed Name <i>Kathleen M. Gruetzmacher</i>		Signature <i>KM Gruetzmacher</i>		Date <i>8/11/93</i>				

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) <i>1.9E+10</i>	Survey Meter Model <i>RO-3C</i>	Property Number <i>2646</i>
Neutron Dose Rate (mrem/h) <i>100E+10</i>	Survey Meter Model <i>PNR-4</i>	Property Number <i>4905</i>
Total Dose Rate (mrem/h) <i>1.9E+10</i>	The data in this section were collected according to approved procedures.	
Alpha Contamination (dpm/100cm ²) <i>10.0E+10</i>	Printed Name <i>RJ Con</i>	Date <i>8/9/93</i>
Beta Gamma Cont (dpm/100cm ²) <i>10.0E+10</i>	Signature <i>RJ Con</i>	

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA 54 by AR 10 S	Printed Name <i>BRUCE LE BRUN</i>	Date <i>8/12/93</i>
	Signature <i>Bruce Le Brun</i>	

THIS PAGE FOR EM-7 USE ONLY

TRU 006

#LA53848



LA53848

5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	01811793	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	0920193	Printed Name	HARRI WILKER	Signature	HARRI WILKER

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name	Alan E Lopez	Signature	Alan E Lopez	Date	8-30-93
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7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	19.0E-11	Survey Meter Model	R03C	Property Number	2620
Neutron Dose Rate (mrem/h)	17.0E-11	Survey Meter Model	PNR4	Property Number	5229
Total Dose Rate (mrem/h)	1.6E+10	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	10.9E+10	Printed Name	J.T. MILLER	Date	9-13-93
Beta Gamma Cont (dpm/100cm ²)	15.6E+10	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Xm	Date Received	9-9-93	ORIGINAL STORAGE DATA	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Pack Number	153
				Layer	2
				Flow Number	7
				Column Number	17
				Date Stacked (MM/DD/YY)	10/14/93
Printed Name	Rick Martinez	Date	9-9-93	Printed Name	Charlotte Fernandez
Signature	Rick Martinez	Signature	Charlotte Fernandez	Date	9/15/93

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name	BRUCE LE BRUN	Date	11/19/92
	Signature	Bruce Brun		

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	1102793	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	110193	Printed Name	HARRI WILKER	Signature	HARRI WILKER

12. DUPLICATE COPY

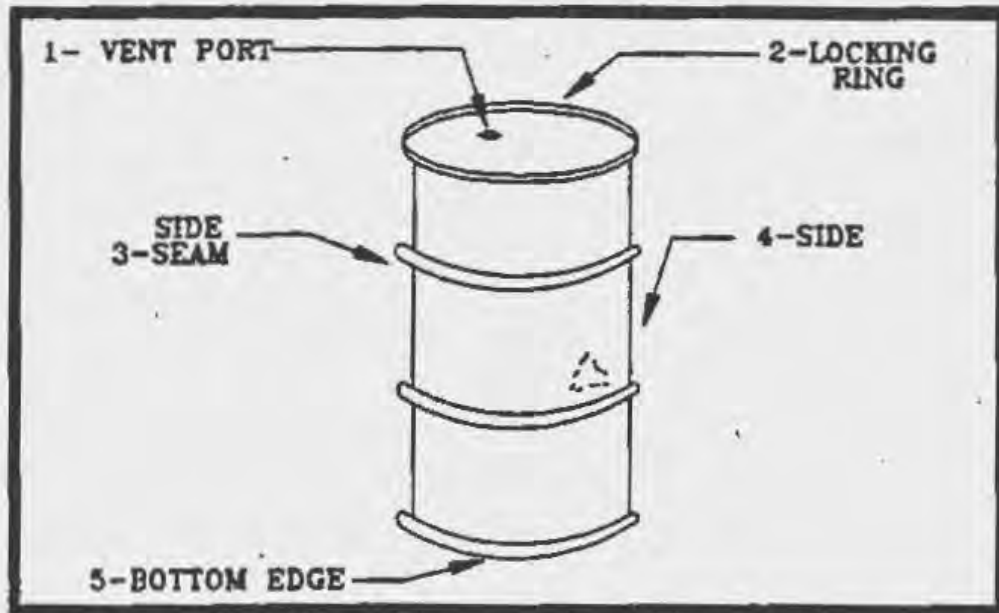
M M D D Y Y

Date Duplicate Filed	112193	Printed Name	Doree Sandoval	Signature	Doree Sandoval
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TRU CONTAINER SMEAR SURVEY DATA SHEET MAILED

AUG 06 1993

TA 3 BUILDING 29 SAMPLE DATE 8-5-93
 RPT R. Cox CONTAINER NO. LA00000053848



△ Maximum Gamma Dose Rate 1.9 mR/hr.
 □ Maximum Neutron Dose Rate 0.0 mRem/hr.

SMEAR NO.	LOCATION	*ALPHA	*BETA-GAMMA
1	VENT PORT	NDA	NDA
2	LOCKING RING	↓	↓
3	SIDE SEAM	↓	↓
4	SIDE	↓	↓
5	BOTTOM EDGE	↓	↓

*dpm/100cm. sq.

GAMMA INSTRUMENT

Model: RO-3C
 P/N: 2646
 CDD: 9-16-93

NEUTRON INSTRUMENT

Model: PNR-4
 P/N: 4905
 CDD: 9-3-93

DISTRIBUTION:

1. RPT's TA-54 MS J592
2. RCT^S TA-3-29 MS 6749
3. _____

ANALYZED BY: David A. Barnes Mike Jensen
 DATE: 8/6/93

2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

DISCARDABLE WASTE LOG SHEET

Effective Date 10/19/87

Page 1 of 7 Pages

L A B B O I O O 5 1 1 1 0

WASTE PACKAGE SERIAL NUMBER

Proc. N-Comb Comb Pu-238

Vent Clip or Carbon Filter installed DM installer's INITIAL

Lead Lined

90 Mil Drum Liner

1/8 Inch Drum Liner

CONTAINER: open In-Line

Tamper Indicating Seal # A04442

Date Sealed 05-27-88

Waste Code: N/A

ITEM NO	ITEM ID	FROM RM/BOX	PKG WT Kg	MATERIAL (MATERIAL)	MERS. CODE	SNM GRAMS	MT	%	CERTIFIED PERSONNEL	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy
										ORGANICS Wt.	HAZARDOUS MATERIALS	OTHER REMARKS		
0	5RR17EFIB	434 6467	45.86	Ultrate Solution	R00	28.16	52	6.0	Smith				7/11	05/27/88
1	Manual 828	434 6440	0.28	Sealed Solids	602	2.38	52	6.0	Smith				7/13	05/27/88
2	50X16WFIH	434 6468	80.96	Ultrate Solution	R00	11.31	52	6.0	Smith				7/11	05/27/88
3	5RR17EFIB	434 6467		Ultrate Solution	R00	3.63	44	99.9	Smith				7/11	05/27/88
4	50X16WFIH	434 6468		Ultrate Solution	R00	0.80	44	99.9	Smith				7/11	05/27/88
5													1	1 1
6													1	1 1
7													1	1 1
8													1	1 1
9										EA 2.13	Pedagogy		1	1 1
TOTALS			177.10	MST-12 signatures for Gross Weight		41.85	52		TOTALS	2.2	2.13	Haz. Mat. - Kg		
x 2.2046 = Pkg Wt Lbs			390.43	for Accountability		4.42	44		organics pounds	4.69		MST-10 Assay Value		
5 gal. drum TAPE Pounds			143.45						OR Data Pkg. Approval			Instrument ID.	N/A	016
scale ADSS WT. Pounds			53.86						W/Dawson 7/8/88			MST-10 Signature		

This container's waste was packaged and the MST-12 data on the DWLS and the CWSP were collected according to procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s). MST-12 Signature Charles L. Fox

WASTE PROFILE

TRU 006

LA53848



LA53848

EM-8 USE ONLY

Reference Number

04636

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490.

Division/Group NMT / NMT-2	Telephone 7-1193	Mail Stop E501	Technical Area 55	Building PF-114	Room 206
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Method of Characterization Knowledge of Process (KOP) - OR - Chemical/Physical Analysis (specify below)
 MSDS attached (optional) Request for analysis Analysis attached

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Nonsalvageable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgic	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)

TRU liquid and particulate wastes immobilized in gypsum-based cement

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 139°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

<p>Waste Origination</p> <p>A. Is this waste generated in a radiation controlled area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.</p>	<p>Radioactivity</p> <p><input type="checkbox"/> Nonradioactive <input type="checkbox"/> Suspect <input checked="" type="checkbox"/> Radioactive</p> <table border="0"> <tr> <td>Activity Measure</td> <td>Radiation Type</td> <td>Half life</td> </tr> <tr> <td><input type="checkbox"/> ≤ 2.0 nC/g</td> <td><input checked="" type="checkbox"/> alpha</td> <td><input type="checkbox"/> 1st < 20 yr</td> </tr> <tr> <td><input type="checkbox"/> > 2.0 nC/g</td> <td><input checked="" type="checkbox"/> beta</td> <td><input checked="" type="checkbox"/> 1st ≥ 20 yr</td> </tr> <tr> <td><input type="checkbox"/> > 10.0 nC/g</td> <td><input checked="" type="checkbox"/> gamma</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> > 100 nC/g</td> <td><input type="checkbox"/> tritium</td> <td></td> </tr> </table>	Activity Measure	Radiation Type	Half life	<input type="checkbox"/> ≤ 2.0 nC/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> 1 st < 20 yr	<input type="checkbox"/> > 2.0 nC/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> 1 st ≥ 20 yr	<input type="checkbox"/> > 10.0 nC/g	<input checked="" type="checkbox"/> gamma		<input checked="" type="checkbox"/> > 100 nC/g	<input type="checkbox"/> tritium	
Activity Measure	Radiation Type	Half life														
<input type="checkbox"/> ≤ 2.0 nC/g	<input checked="" type="checkbox"/> alpha	<input type="checkbox"/> 1 st < 20 yr														
<input type="checkbox"/> > 2.0 nC/g	<input checked="" type="checkbox"/> beta	<input checked="" type="checkbox"/> 1 st ≥ 20 yr														
<input type="checkbox"/> > 10.0 nC/g	<input checked="" type="checkbox"/> gamma															
<input checked="" type="checkbox"/> > 100 nC/g	<input type="checkbox"/> tritium															

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) Schueler, William T.	Z Number 106374	Signature William Schueler	Date 10/14/92
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If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). -->	Name (last, first, middle)	Mail Stop
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Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations.)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-601CA
barium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input checked="" type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input checked="" type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-60206mod
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other SWF46-601CA
selenium	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations.)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other KOP
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 6.0 ppm	<input type="checkbox"/> ≥ 6.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
cresol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

Contains Pu²³⁹ and Am²⁴¹. Concentrations above based on total metal concentrations taking into account TCLP and encapsulation by cementation.

Do not write in this box - EM-8 use only

Waste Classification

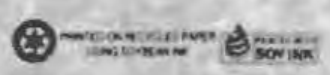
- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Non-RCRA waste | <input type="checkbox"/> RCRA-regulated solid waste | <input checked="" type="checkbox"/> RCRA-regulated hazardous waste | <input type="checkbox"/> Radioactive only |
| <input type="checkbox"/> PCB | <input type="checkbox"/> municipal refuse | <input type="checkbox"/> hazardous waste | <input type="checkbox"/> low-level waste |
| <input type="checkbox"/> non-PCB TSCA waste | <input type="checkbox"/> nonhazardous chemical waste | <input type="checkbox"/> mixed low-level waste | <input type="checkbox"/> transuranic waste |
| <input type="checkbox"/> asbestos | <input type="checkbox"/> administratively controlled waste | <input checked="" type="checkbox"/> mixed transuranic waste | |
| | <input type="checkbox"/> sanitary/industrial sludges | | |

RCRA Code 1 D006	RCRA Code 2 D007	RCRA Code 3 D008	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
---------------------	---------------------	---------------------	-------------	-------------	-------------	-------------	-------------

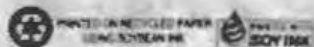
EM-8 Reviewer's Signature <i>Flanagan</i>	Date 10/14/92	Cost Center/Program Code for Analysis	Reference Number 04636
--	------------------	---------------------------------------	---------------------------

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NM0890Q10515		Manifest Document No. 53848		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
		3. Generator's Name and Mailing Address DAVIS V CHRISTENSEN Los Alamos National Laboratory TA54 AREA G MS Los Alamos NM 87545						A. State Manifest Document Number		B. State Generator's ID	
4. Generator's Phone (505) 66-		5. Transporter 1 Company Name LANL		6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone		G. State Facility's ID			
9. Designated Facility Name and Site Address Los Alamos National Laboratory RONALD G SALAZAR TA50 BLDG. 69 Los Alamos, NM 87545		10. US EPA ID Number		H. Facility's Phone 505 66-							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
				No.		Type					
a. <input checked="" type="checkbox"/> RQ, RADIOACTIVE MATERIAL, FISSILE, N.O.S., 7, UN2918, HIGHWAY ROUTE CONTROLLED QUANTITY Solid, Elemental, AM44, PU52,				1		652		P			
b. 2.690e+01Ci, T.I.=0.1 RADIOACTIVE YELLOW III, Am241, Pu238, Pu239, Pu240, Pu241, Pu242											
c.											
d.											
J. Additional Descriptions for Materials Listed Above 11a. D008, D006, D007				<div style="border: 2px solid black; padding: 5px; width: fit-content; margin: auto;"> <p style="margin: 0;">HMTF REVIEW</p> <p style="margin: 0;">APPROVED <input checked="" type="checkbox"/></p> <p style="margin: 0;">DISCREPANCY <input type="checkbox"/></p> <p style="margin: 0; font-size: small;">7/10/96 Y.W.</p> <p style="margin: 0; font-size: small; border: 1px solid black; display: inline-block; padding: 2px;">JB</p> </div>				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information *EMERGENCY PHONE NO: (505) 667-6211* 11a. ERGNO: 165								<p style="color: red; font-size: small;">Radiative Highway Route Controlled quantity placards required Road Closure Required</p> <p style="margin: 0;">TWSR#: 53848 HMTF#: 15466</p>			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name DAVIS CHRISTENSEN				Signature <i>Davis Christensen</i>				Month Day Year 10/7/1996			
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name <i>Michael M. May</i>				Signature <i>Michael M. May</i>				Month Day Year 10/23/96			
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature				Month Day Year			
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name Ron Salazar				Signature <i>Ron Salazar</i>				Month Day Year 10/23/96			

ORIGINAL-RETURN TO GENERATOR

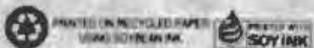


UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address				A. State Manifest Document Number		
4. Generator's Phone ()				B. State Generator's ID		
5. Transporter 1 Company Name		6. US EPA ID Number	C. State Transporter's ID			
			D. Transporter's Phone			
7. Transporter 2 Company Name		8. US EPA ID Number	E. State Transporter's ID			
			F. Transporter's Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number	G. State Facility's ID			
			H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RADIOACTIVE MATERIAL, FISSIONABLE, N.O.S., 7, UN2918, HIGHWAY ROUTE CONTROLLED QUANTITY, 50 Lb, 250000000, AMELI, PU239, PU240, PU241, PU242, 2.690e+01Ci, T-I.=0.0 RADIOACTIVE YELLOW III,	1	DM	530	g	
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above			K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information *EMERGENCY PHONE NO: (505) 667-6211* 11a. ERGNO: 165						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name		Signature		Month Day Year		
Ronald G. Salazar		<i>Ronald G. Salazar</i>				
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
Cesar Jimenez		<i>Cesar Jimenez</i>				
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Month Day Year		
Rick Martinez		<i>Rick Martinez</i>				



TSDF COPY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address				A. State Manifest Document Number		
4. Generator's Phone ()				B. State Generator's ID		
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol
				No.	Type	I. Waste No.
a.	RADIOACTIVE MATERIAL, FISSILE, N.O.S., UN2918, HIGHWAY ROUTE CONTROLLED			1	DR	330
b.	9U239, 9U240, 9U241, 9U242, 2.690cy0101, T.I.=0.0 RADIOACTIVE YELLOW					
c.						
d.						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
Via: DOUB						
15. Special Handling Instructions and Additional Information						
EMERGENCY PHONE NO: (501) 647-6211 11a. EPCRA: 65						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name			Signature		Month Day Year	
Ron Salazar			Ron Salazar			
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year	
Ron Salazar			Ron Salazar		9 1 76	
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name			Signature		Month Day Year	
Rick Marchant			Rick Marchant		0 1 1 76	



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address				A. State Manifest Document Number		
4. Generator's Phone ()				B. State Generator's ID		
5. Transporter 1 Company Name		6. US EPA ID Number	C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number	D. Transporter's Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number	E. State Transporter's ID			
			F. Transporter's Phone			
			G. State Facility's ID			
			H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers	13. Total	14. Unit	1. Waste No.
			No.	Quantity	Wt/Vol	
b. HAZARDOUS RADIOACTIVE MATERIAL, FISSILE, N.O.S., UN2918, HIGHWAY ROUTE CONTROLLED QUANTITY, 0110, ELEMENTAL, AN241, PU239, PU238, PU240, PU241, PU242, 2.690g+01G1, T.I.-0.0 RADIOACTIVE YELLOW			1	550		
c.						
d.						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information						
EMERGENCY PHONE NO: (505) 667-6211						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.						
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name			Signature		Month Day Year	
[Signature]			[Signature]		[Date]	
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year	
[Signature]			[Signature]		[Date]	
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year	
[Signature]			[Signature]		[Date]	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name			Signature		Month Day Year	
[Signature]			[Signature]		[Date]	

DRUM SURVEY SHEET

TA - 50-69, WCRRF

LOCATION

ROOM: 102

103

104

50-193

BUILDING _____

OTHER _____

CONTAINER NUMBER: 53840

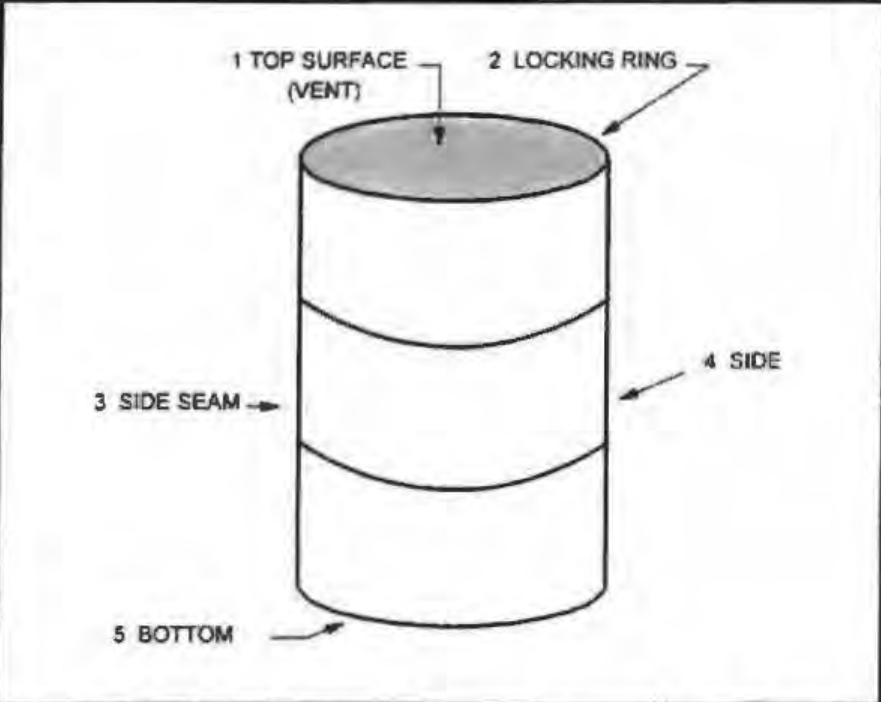
DRUM SURVEY DATE: 8, 22, 96

SURVEYED BY: K. Ault
(Signature)

RCT: Salazar

Ault

Other: _____



GAMMA INSTRUMENT

MODEL: RO-2

RO-3C

(OTHER) _____

P/N: 2661

CAL DUE DATE: 1/1

MAXIMUM GAMMA DOSE RATE

2.1 mR/hr
Imeter 0 mR/hr

NEUTRON INSTRUMENT

MODEL: ESP-2/NRD

PNR-4

(OTHER) _____

P/N: 8031

CAL DUE DATE: 1/1

MAXIMUM NEUTRON DOSE RATE

0.1 mRem/hr
Imeter 0 mR/hr

SMEAR	LOCATION	ALPHA*	BETA*
1	TOP SURFACE	1.76	2.53
2	LOCKING RING	2.55	0.000
3	SIDE SEAM	0.000	1.11
4	SIDE	5.09	0.000
5	BOTTOM	0.018	0.362

ALPHA / BETA INSTRUMENT
BERTHOLD LB770, P/N 844236

DISTRIBUTION:

1. RCT's TA-50 MS E516

2. _____

3. _____

APPROVED

Bobby Gonzales

DATE: 1/1

Return-Path: <bodenstein@lanl.gov>
X-Sender: sab@wm0.lanl.gov
Date: Mon, 09 Sep 1996 14:15:16 -0600
To: aic@lanl.gov
From: bodenstein@lanl.gov (Stan Bodenstein, CST-7, 5-8462)
Subject: Dewatered Drum Shipment to TA-54
Cc: Triay@lanl.gov, jr@lanl.gov, shelmick@lanl.gov, grand@lanl.gov,
dvc@lanl.gov, aic@lanl.gov, rickmar@lanl.gov, jbalkey@lanl.gov,
ronwienke@lanl.gov, kgruetzmacher@lanl.gov, andym@lanl.gov,
gveazey@lanl.gov, dpt@lanl.gov

I-Li,

We received the following drums from you as OVERPACKED 55 gallon drums. We dewatered each of the drums at the WCRRF.

Since each of the drums was in very good condition, we will be shipping the following list of drums back to you as 55 gallon drums, WITHOUT the overpacks. Also indicated is the change in weight due to the removal of water.

Please update the database as necessary.

Drum Number	Pounds		
	Initial Weight	Final Weight	

53836	532.0	523.8	
53746	534.8	528.0	6
53783	556.0	548.4	7.6
53789	538.6	532.2	6.4
53204	531.8	529.4	2.4
53174	537.6	534.9	2.7
53851	554.8	552.1	2.7
53771	560.4	556.3	4.1
53715	547.2	543.1	4.1
54893	539.2	536.5	2.7
52054	833.6	813.2	20.4
52484	855.2	833.8	21.4
53847	527.0	519.4	7.6
53790	557.2	548.2	9.0
53734	821.0	815.6	5.4
53848	534.8	530.2	4.6
54002	804.8	798.6	6.2
53712	529.8	523.0	6.8
52187	862.6	844.2	18.4
53824	536.6	530.8	5.8
53772	561.6	545.8	15.8
53796	554.2	549.6	4.6
53722	554.0	545.8	8.2
53703	527.2	517.8	9.4
53714	531.8	529.4	2.4
53814	533.0	519.2	13.8
54894	537.4	535.6	1.8
53306	539.4	529.8	9.6
53842	540.4	528.0	12.4
53802	530.6	520.4	10.2

5.3848

Los Alamos

NATIONAL LABORATORY

Environmental Management
Environmental Stewardship Program
EML 3501
Los Alamos, New Mexico 87545
(505) 857-8839
FAX (505) 855-8118

Date: October 2, 1996
Refer to: EM/ES-96-253

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

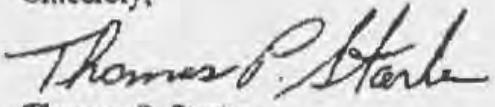
SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: a/s

TS:lma

**LAND DISPOSAL RESTRICTIONS
NOTIFICATION FORM**

A copy of this form must be attached to each Waste Profile Form and to each Uniform Hazardous Waste Manifest required to transport waste from LA pursuant to 40 CFR 268.7(a)(1).

Waste Profile Form No. 4636	Chemical Waste Waste Disposal Record No. LA0000053848	Uniform Hazardous Waste Manifest No. 53848	Date of Waste Pickup 9/09/93
---------------------------------------	--	---	--

Check only one.

- Non-wastewater
 Wastewater (as defined in 40 CFR 268.2(f))

NOTIFICATION OF CALIFORNIA LIST APPLICABILITY

Check all that apply.

- Liquid hazardous waste containing PCBs at a concentration of 250 ppm.
 A D001 - D017 liquid waste containing ≥134 mg/l of nickel and/or ≥130 mg/L of thallium.
 A D001 - D011 waste containing Halogenated Organic Compounds (HOCs) listed in 40 CFR 268, Appendix III, at ≥1000 ppm.

NOTIFICATION OF "D" CHARACTERISTIC EPA WASTE CODES

Check all that apply.

EPA Waste Code Waste Description and/or Subcategory (as needed)

- D001 Ignitable characteristic wastes (except for the Section 261.21(a)(1) High TOC Subcategory) that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
- D001 High TOC Ignitable Characteristic Liquids Subcategory based on 40 CFR 261.21(a)(1) - Greater than 10% total organic carbon.
- D002 Corrosive Characteristic Wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
- D003 Reactive Sulfides Subcategory
- D003 Reactive Cyanides Subcategory
- D003 Water Reactive Subcategory
- D003 Other Reactives Subcategory (based on 261.23(a)(1))
- D004
- D005
- D006 Wastes that exhibit the TC for cadmium
- D006 Cadmium Containing Batteries Subcategory
- D007 Wastes that exhibit TC for lead
- D008 Lead Acid Batteries Subcategory
- ~~D009~~ Radioactive Lead Solids Subcategory
- D009 High Mercury-Organic Subcategory (≥250 mg/kg Hg with organics and not incinerator residues)
- D009 High Mercury-Inorganic Subcategory (≥250 mg/kg Hg [with inorganics])
- D009 Low Mercury Subcategory (<250 mg/kg Hg)
- D009 All D009 wastewaters
- D009 Elemental mercury contaminated with radioactive materials.
- D009 Hydraulic oil contaminated with Mercury Radioactive Materials Subcategory
- D010
- D011

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> D012 | <input type="checkbox"/> D020 | <input type="checkbox"/> D028 | <input type="checkbox"/> D036 |
| <input type="checkbox"/> D013 | <input type="checkbox"/> D021 | <input type="checkbox"/> D029 | <input type="checkbox"/> D037 |
| <input type="checkbox"/> D014 | <input type="checkbox"/> D022 | <input type="checkbox"/> D030 | <input type="checkbox"/> D038 |
| <input type="checkbox"/> D015 | <input type="checkbox"/> D023 | <input type="checkbox"/> D031 | <input type="checkbox"/> D039 |
| <input type="checkbox"/> D016 | <input type="checkbox"/> D024 | <input type="checkbox"/> D032 | <input type="checkbox"/> D040 |
| <input type="checkbox"/> D017 | <input type="checkbox"/> D025 | <input type="checkbox"/> D033 | <input type="checkbox"/> D041 |
| <input type="checkbox"/> D018 | <input type="checkbox"/> D026 | <input type="checkbox"/> D034 | <input type="checkbox"/> D042 |
| <input type="checkbox"/> D019 | <input type="checkbox"/> D027 | <input type="checkbox"/> D035 | <input type="checkbox"/> D043 |

*All applicable Underlying Hazardous Constituents in these characteristic wastes must be checked in Table UTS.

**LAND DISPOSAL RESTRICTIONS
NOTIFICATION FORM**

NOTIFICATION FOR F001 - F005 SPENT SOLVENT WASTES

Check all that apply.

Spent solvent wastes with the following constituents only.

<u>EPA Waste Code</u>	<u>Constituents in the waste</u>	
<input type="checkbox"/> F001	<input type="checkbox"/> Acetone.	<input type="checkbox"/> Isobutyl alcohol
<input type="checkbox"/> F002	<input type="checkbox"/> Benzene	<input type="checkbox"/> Methanol
<input type="checkbox"/> F003	<input type="checkbox"/> n-Butyl alcohol	<input type="checkbox"/> Methylene chloride
<input type="checkbox"/> F004	<input type="checkbox"/> Carbon disulfide (wastewater only)	<input type="checkbox"/> Methyl ethyl ketone
<input type="checkbox"/> F005	<input type="checkbox"/> Carbon tetrachloride	<input type="checkbox"/> Methyl isobutyl ketone
	<input type="checkbox"/> Chlorobenzene	<input type="checkbox"/> Nitrobenzene
	<input type="checkbox"/> o-cresol	<input type="checkbox"/> Pyridine
	<input type="checkbox"/> m-cresol	<input type="checkbox"/> Tetrachloroethylene
	<input type="checkbox"/> p-cresol	<input type="checkbox"/> Toluene
	<input type="checkbox"/> Cresol-mixed isomers (Cresylic acid)	<input type="checkbox"/> 1,1,1-Trichloroethane
	<input type="checkbox"/> Cyclohexanone (wastewater only)	<input type="checkbox"/> 1,1,2-Trichloroethane
	<input type="checkbox"/> o-Dichlorobenzene	<input type="checkbox"/> 1,1,2-Trichloro - 1,2,2-trifluoroethane
	<input type="checkbox"/> Ethyl acetate	<input type="checkbox"/> Trichloroethylene
	<input type="checkbox"/> Ethyl benzene	<input type="checkbox"/> Trichloromonofluoromethane
	<input type="checkbox"/> Ethyl ether	<input type="checkbox"/> Xylenes - mixed isomers (o-, m-, p-xylene)

Check all that apply.

EPA Waste Codes Constituents in the waste

- | | |
|-------------------------------|---|
| <input type="checkbox"/> F003 | <input type="checkbox"/> Carbon disulfide |
| <input type="checkbox"/> F005 | <input type="checkbox"/> Cyclohexanone |
| | <input type="checkbox"/> Methanol |

Note: Treatment standards for these constituents apply to F001 - F005 wastes which contain only one, two, or all three of these constituents.

Check only one, if applicable.

EPA Waste Code Constituents in the waste

- | | |
|-------------------------------|---|
| <input type="checkbox"/> F005 | <input type="checkbox"/> Containing 2-nitropropane as the only listed F001 - F005 solvent. |
| | <input type="checkbox"/> Containing 2-ethoxyethanol as the only listed F001 - F005 solvent. |

NOTIFICATION FOR OTHER "F" WASTES

Check only one, if applicable.

- F006
- F007
- F008
- F009
- F027



CONTAINER PROFILE
53848
T-MTRU-TEMP

WS ID: 28588
C ID: 761588
ACTIVE

GENERAL INFORMATION

Container ID:	761588	
Labeled ID:	53848	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	28588	Container Subtype: 85-gallon steel drum
Work Path:	T-MTRU-TEMP	Origin Date: 05-Aug-1993 12:00 am
Quantity (Univ):		Accum Start Date: 05-Aug-1993
Compactible:		Closed Date: 05-Aug-1993

Discard Matrix:

TID(s):

Gen Contact:

Insert By: WCATS APPLICATION (000000)

Waste Desc: (LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT.

WEIGHTS AND VOLUMES

Container Volume:	0.32 CM	Gross Weight:	530.00 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	63.00 lb
		Net Weight:	467.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS

Current: LANL: 54-G: 000153: C035: L01: R02



CONTAINER PROFILE
53848
T-MTRU-TEMP

WS ID: 28588
 C ID: 761588
 ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____
Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED
 HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
---	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	NOT AVAILABLE		0/0
Not Specified	NA	Carbon Composite	0	DJ162		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53848
T-MTRU-TEMP

WS ID: 28588
 C ID: 761588
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 71964, Status: Active</i>							
B/G Survey			= 0.90	=	=		Not Applicable
Neutron Survey			= 0.70	=	=		Not Applicable
Smear Results				Not Applicable		= 0.00	= 5.60

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 340257, Date: 08/05/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	4.43E+000	g	0.00E+000	N				NONE
52	4.18E+001	g	0.00E+000	N				NONE
Am-241	1.52E+001	Ci	0.00E+000	Y			Y	
Pu-238	7.17E-002	Ci	0.00E+000	Y			Y	
Pu-239	2.44E+000	Ci	0.00E+000	Y			Y	
Pu-240	5.70E-001	Ci	0.00E+000	Y			Y	
Pu-241	8.66E+000	Ci	0.00E+000	Y			Y	
Pu-242	3.30E-005	Ci	0.00E+000	Y			Y	
U-234	5.21E-006	Ci	0.00E+000	Y			Y	
U-235	9.05E-008	Ci	0.00E+000	Y			Y	

53850



1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code: <u>NmL0159AAG</u>	Inspected Items		
Year of Manufacture: <u>1913</u>	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
Box Serial Number: <u>N/A</u>	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	Printed Name: <u>Steven Griego</u>	Date: <u>2/29/93</u>	
	Signature: <u>Steven Griego</u>		

2. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE Group: <u>NMT-2</u>	Technical Area: <u>TA-55</u>	Building: <u>PFA</u>	Program Code: <u>K567</u>
Additional Information: <u>55 GAL CEMENT DRUM OVERPACKED IN 85-GAL ENPAC POLY-LINED DRUM T.O.# B20074</u>			
CODE	CONTAINER	INTERNAL SHIELDING	RADIONUCLIDE CONTENT
01	<input type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None	Nuclide, Amount +/-, Uncertainty +/-, Cn-Curie/McGram
02	<input type="checkbox"/> Standard Waste Box	Type, Thickness (in.)	<u>PIU1512</u> 5.6710 E+10 E . . . M
03	<input checked="" type="checkbox"/> Other (Call TWCO)	<u>LEAD 6.3E-12</u>	<u>AM141+</u> 1.21010 E+10 E . . . M
04	<input type="checkbox"/> FBI Canister
Waste Profile Request Number	<u>0167114</u>		
Carbon Filter ID	<u>01 LA 314115 02 LA 410168</u>		
Process Batch Code	<u>N/A</u>		
Gross Weight (lb.)	<u>16.511E+12</u>		
Organic Material Wt. (lb.)	<u>11.471E+11</u>		
Organic Material Volume (%)	<u>1110 LEAD SHIELDING</u>		
TRUCON Code	<u>11141A CADMIUM</u>		
Date Closed (MM/DD/YY)	<u>012 21 913 CHROMIUM</u>		
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures. The data are correct and complete to the best of my knowledge.			
Printed Name: <u>KATHLEEN M. GRUETZMACHER</u>	Signature: <u>K M Gruetzmacher</u>		Date: <u>8/5/93</u>

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	<u>8.0E-1</u>	Survey Meter Model	<u>RO-3C</u>	Property Number	<u>2646</u>
Neutron Dose Rate (mrem/h)	<u>1.0E+0</u>	Survey Meter Model	<u>PNR-4</u>	Property Number	<u>4909</u>
Total Dose Rate (mrem/h)	<u>1.8E+0</u>	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²)	<u>0.0E+0</u>	Printed Name	<u>RJCox</u>	Date	<u>8/4/93</u>
Beta-Gamma Cont. (dpm/100cm ²)	<u>0.0E+0</u>	Signature	<u>RJC</u>		

4. EM-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by EM-7. The generator is authorized to arrange transportation to TA-54 by AR 10.5 <u>040 2/12/93</u>	Printed Name: <u>R.G. Britton</u>	Date: <u>2-6-93</u>
	Signature: <u>R.G. Britton</u>	

* TETRACHLOROETHYLENE 2.4 E + 35 Page 1 of 2

THIS PAGE FOR EM-7 USE ONLY

TRU 006

LA53850



LA53850

5. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	01811693	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	01901913	Printed Name	ARRI WILBER	Signature	ARRI WILBER

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected at the time of pickup according to approved procedures and was found to be free of obvious damage or defects.

Comments

Printed Name	GENE E. LADON	Signature	Gene E. Ladon	Date	8/23/93
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7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	14.0E1-11	Survey Meter Model	RO3C	Property Number	2605
Neutron Dose Rate (mrem/h)	13.0E1-11	Survey Meter Model	PNR 4	Property Number	5229
Total Dose Rate (mrem/h)	17.0E1-11	The data in this section were collected according to approved procedures.			
Alpha Contamination (cpm/100cm ²)	12.2E1+10	Printed Name	J.T. Miller	Date	8-27-93
Beta-Gamma Cont. (cpm/100cm ²)	16.3E1+10	Signature	J.T. Miller		

8. STORAGE SITE INFORMATION

Received By (Initials)	Am	Date Received	8-25-93	ORIGINAL STORAGE DATA					
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.				Pack Number	153	Layer	1	Row Number	4
				Column Number	19	Date Stacked (MM,DD,YY)	08/30/93		
Printed Name	Rick Martinez	Date	8-25-93	Printed Name	Charlotte Fernandez	Date	9/18/93		
Signature	Rick Martinez			Signature	Charlotte Fernandez				

9. EM-7 REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name	BRUCE LE BRUN	Date	9/13/93
	Signature	Bruce Le Brun		

10. TRU WASTE CERTIFICATION OFFICE INFORMATION

COMMENTS	NONCONFORMANCE REPORT NUMBER(S)	HOLD-TAG NUMBER(S)
1		
Printed Name	Signature	Date

11. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database	091393	Printed Name	Charlotte Fernandez	Signature	Charlotte Fernandez
Date Entry Verified	091393	Printed Name	ARRI WILBER	Signature	ARRI WILBER

12. DUPLICATE COPY

M M D D Y Y

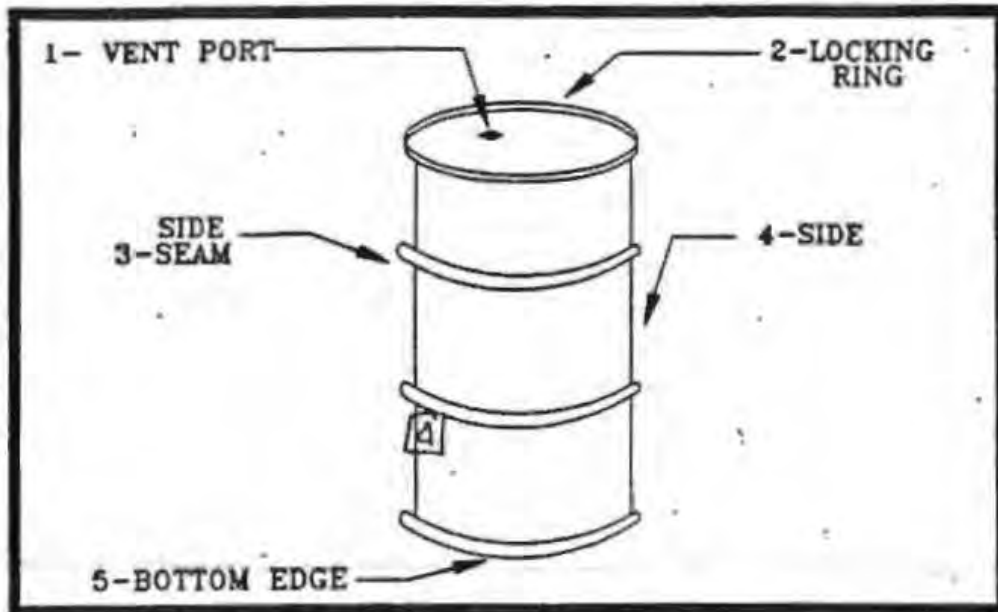
Date Duplicate Filed	1121493	Printed Name	Renee Sandoval	Signature	Renee Sandoval
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TRU CONTAINER SMEAR SURVEY DATA SHEET

MAILED

AUG 04 1993

TA 3 BUILDING 29 SAMPLE DATE 7-29-93
 RPT R-COX CONTAINER NO. LA00000053850



△ Maximum Gamma Dose Rate 0.8 mR/hr.
 □ Maximum Neutron Dose Rate 1.0 mRem/hr.

SMEAR NO.	LOCATION	*ALPHA	*BETA-GAMMA
1	VENT PORT	NDA	NDA
2	LOCKING RING	↓	↓
3	SIDE SEAM	↓	↓
4	SIDE	↓	↓
5	BOTTOM EDGE	↓	↓

*dpm/100cm. sq.

GAMMA INSTRUMENT
 Model: RO-3C
 P/N: 2646
 CDD: 9-16-93

NEUTRON INSTRUMENT
 Model: ESP+PNR-4
 P/N: 80064909
 CDD: 9-22-93

DISTRIBUTION:

1. RPT's TA-54 MS J592
2. RCT's TA-3 CMR MS G749
3. _____

ANALYZED BY: Ralph Vignuzzi
 DATE: 8-13-93

2/3/93

K. M. Gruetzmacher

The amounts of the hazardous materials, cadmium, chromium, and lead were calculated based on a "worst-case concentration" of these materials in a cement package. These concentrations are based on RCRA-toxic metal analyses of EV waste, shown in these waste packages as "EV Bottoms," "EV Filtrate," or "Lean Nitric Solution." Refer to NMT-2-PROC-92-116, memo to Bruce Reich, EM-7 from Gerry Veazey, NMT-2 dated 10/21/92.

Metal	Worst-Case Concentration (g/l)
Cd	0.085
Cr	3.300
Pb	0.480

DISCARDABLE WASTE LOG SHEET

Effective Date 10/19/87

Page 1 of 1 Pages

1 A B B 0 1 0 0 5 0 5 9 8

WASTE PACKAGE SERIAL NUMBER

Proc.
 N-Comb
 Comb
 Pu-238

Vent Clip or Carbon Filter installed installer's INITIALS

< Lead Lined
 90 Mil Drum Liner
 1/8 Inch Drum Liner

CONTAINER: open In-Line

Tamper Indicating Seal # A05071

Date Sealed 03-04-88

Waste Code: N/A

ITM NO	ITEM ID	FROM RM/BOX	PKG WT Kg	MATRIX (MATERIAL)	MERS. CODE	SNM GRAMS	MT	Z	CERTIFIED PERSONNEL	REMARKS (Wt. in Kg.)			AUTH. PG/LN	DATE mm/dd/yy
										ORGANICS V%	HAZARDOUS MATERIALS	OTHER REMARKS		
0	2DS17EF1B	434 2467	109.40 109.40	nitrate Solution/Lin	R00	3.65	52	6.0	Smith				7/11	03/02/88
1	KIT12	489 2414	9.95	organic	R00	0.33	52	6.0	Smith	0.95	2.0		7/15	03/04/88
2	CLOX-1015	1015 2441	9.95	nitrate Solution/Lin	R00	0.00	52	6.0	Smith				7/11	03/04/88
3	11503137	480 2436	9.95	organic	R00	1.04	52	6.0	Smith	0.95	3.2 Tetrachloroethylene 2.4 kg		7/15	03/04/88
4	2LR26EF1A	434 2418	34.81	nitrate Solution/Lin	R00	0.65	52	6.0	Smith				7/11	03/04/88
5	2DS17EF1B	434 2467		nitrate Solution/Lin	R00	Full	44	99.4	Smith				2/11	03/02/86
6	2LR26EF1A	434 2418		nitrate Solution/Lin	R00	10.09	44	99.4	Smith				2/11	03/04/88
7													1	1 1
8													1	1 1
9										2.2	2.13	Packaging	1	1 1
TOTALS Pkg Wt. Kg			174.06	MST-12 signatures for Gross Weight		5.67	52	TOTALS		9.10	7.33	Haz. Mat. - Kg	2.4	
x 2.2046 = Pkg Wt Lbs			385.73	for Accountability check		1.26	44	organics pounds		13.56	14.71	MST-10 Assay Value	N/A	
55 gal. drum TARE Pounds			149.34	for Accountability check				DR Data Pkg. Approval				Instrument ID.		
Scale GROSS WT. Pounds			535.07									MST-10 Signature	Charles L. Foy	

This container's waste was packaged and the MST-12 data on the DMLS and the CWSR were collected according to procedures defined in the Los Alamos Certification Plan and the appropriate attachment(s). MST-12 Signature Charles L. Foy

Los Alamos

NATIONAL LABORATORY

53850

Environmental Management
Environmental Stewardship Program
Cm. J591
Los Alamos, New Mexico 87545
(505) 867-6838
FAX (505) 865-8118

Date: October 2, 1996
Letter to: EM/ES-96-253

Ms. Cynthia Longenbaugh
Waste Management Division
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400
Albuquerque, NM 87185-5400

Dear Ms. Longenbaugh:

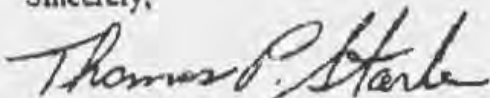
SUBJECT: TRU WASTE GENERATION BASELINE CHANGE

In a recent data validation review of FY 1993, 1994, and 1995 Laboratory waste volumes, it was determined that the routine TRU/MTRU reported in 1993 was incorrect. Only 53 m³ of the 284 m³ of TRU/MTRU reported as routine waste was correctly characterized as routine waste from that year. The remainder was either non-routine, or prior year waste that happened to be sent from TA-55 to TA-54 in 1993.

ACTIVITY	VOLUME (M3)
a. Routine wastes generated at TA-55 during 1993	53
b. Overpack of drums (~233 ea.) generated before 93	68
c. Legacy gloveboxes from previous years	156
d. One-meter diameter steel vessels (12 ea.) cleaned out during previous years	07
	284

This 1993 waste volume correction is significant as the Department of Energy Pollution Prevention goals and the University of California contract performance measures both determine routine waste minimization performance by comparing present year waste volumes with 1993 volumes (see enclosed graph). We request that the 1993 baseline numbers for routine TRU waste generation at Los Alamos National Laboratory be corrected.

Sincerely,



Thomas P. Starke
Environmental Stewardship Program Manager
Los Alamos National Laboratory

Enclosure: a/s

TS:lma



Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490.

Division/Group NMT/NMT2	Telephone 54356	Mail Stop E501	Technical Area 55	Building PF-2	Room 120
----------------------------	--------------------	-------------------	----------------------	------------------	-------------

Method of Characterization

<input type="checkbox"/> Knowledge of Process (KOP)	- OR -	<input type="checkbox"/> Chemical/Physical Analysis (specify below)
<input type="checkbox"/> MSDS attached (optional)		<input type="checkbox"/> Request for analysis <input type="checkbox"/> Analysis attached

Waste Category (Choose one or more of the categories below that most accurately describe your waste)

<input type="checkbox"/> Flammable	<input type="checkbox"/> Pesticide	<input type="checkbox"/> Photographic	<input type="checkbox"/> Spent coolant	<input type="checkbox"/> Plastics
<input type="checkbox"/> Combustible	<input type="checkbox"/> Beryllium	<input type="checkbox"/> Sanitary	<input type="checkbox"/> Aerosol cans	<input type="checkbox"/> Filter media
<input type="checkbox"/> High explosive	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Radiochemistry	<input type="checkbox"/> Motor oil	<input type="checkbox"/> Vacuum filter media
<input type="checkbox"/> DOT oxidizer	<input checked="" type="checkbox"/> Solvent	<input type="checkbox"/> Paint waste	<input type="checkbox"/> Pump oil	<input checked="" type="checkbox"/> Cement paste
<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Waste rags	<input type="checkbox"/> Laboratory trash	<input type="checkbox"/> Capacitor oil	<input type="checkbox"/> Nonsalvageable
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Glass	<input type="checkbox"/> Metallurgical	<input type="checkbox"/> UST remediation	<input type="checkbox"/> Nonrecyclable
<input checked="" type="checkbox"/> Heavy metal	<input type="checkbox"/> Plating solution	<input type="checkbox"/> Scrap metal	<input type="checkbox"/> Contaminated soils	<input type="checkbox"/> Building debris
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Etchant	<input type="checkbox"/> Medical/Biological	<input type="checkbox"/> Environmental/SWMU	<input type="checkbox"/> Firing site debris

General Description (provide a general description of the waste and/or waste-generating process below)

TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM-BASED CEMENT AND TETRACHLOROETHYLENE

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> < 100°	<input type="checkbox"/> 2.0 or less	<input type="checkbox"/> Unstable	<input type="checkbox"/> < 50 ppm
<input type="checkbox"/> Semisolid/sludge	<input type="checkbox"/> 100° to 130°	<input type="checkbox"/> 2.1 to 12.4	<input type="checkbox"/> Water reactive	<input type="checkbox"/> 50 to 500 ppm
<input type="checkbox"/> Absorbed liquid	<input type="checkbox"/> 140° to 200°	<input type="checkbox"/> 12.5 or greater	<input type="checkbox"/> Cyanides	<input type="checkbox"/> > 500 ppm
<input type="checkbox"/> Liquid	<input type="checkbox"/> > 200°	<input checked="" type="checkbox"/> Not aqueous	<input type="checkbox"/> Sulfides	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Gas cylinder or vessel	<input checked="" type="checkbox"/> Not ignitable		<input type="checkbox"/> Shock sensitive	
<input type="checkbox"/> Multilayered			<input type="checkbox"/> Class A or B explosive	
<input type="checkbox"/> Suspended solids			<input checked="" type="checkbox"/> Nonreactive	
<input type="checkbox"/> Powder or ash				

<p>Waste Origination</p> <p>A. Is this waste generated in a radiation controlled area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.</p>	<p>Radioactivity</p> <p><input type="checkbox"/> Nonradioactive <input type="checkbox"/> Suspect <input checked="" type="checkbox"/> Radioactive</p> <p>Activity Measure: <input type="checkbox"/> ≤ 2.0 nCi/g <input type="checkbox"/> > 2.0 nCi/g <input type="checkbox"/> > 10.0 nCi/g <input checked="" type="checkbox"/> > 100 nCi/g</p> <p>Radiation Type: <input checked="" type="checkbox"/> alpha <input checked="" type="checkbox"/> beta <input checked="" type="checkbox"/> gamma <input type="checkbox"/> tritium</p> <p>Half-life: <input type="checkbox"/> t_{1/2} < 20 yr <input checked="" type="checkbox"/> t_{1/2} ≥ 20 yr</p>
---	---

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Waste Generator's Name (last, first, middle) GRUETZMACHER, KATHLEEN M.	Z Number 099731	Signature KM Gruetzmacher	Date 7/27/93
---	--------------------	------------------------------	-----------------

If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). →	Name (last, first, middle)	Mail Stop
---	----------------------------	-----------

Toxic Metals (Indicate if each of the following heavy metals exists in your waste at the posted concentrations)

arsenic	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
berium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
cadmium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chromium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
lead	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
mercury	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nickel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 134.0 ppm	<input type="checkbox"/> ≥ 134.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
selenium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 1.0 ppm	<input type="checkbox"/> ≥ 1.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
silver	<input checked="" type="checkbox"/> None	<input type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
thallium	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 130.0 ppm	<input type="checkbox"/> ≥ 130.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

SUBAG-6010A
SUBAG-6020(M)
SUBAG-6010A
KOP

Organic Compounds (Indicate if each of the following organic compounds exists in your waste at the posted concentrations)

benzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> Other
carbon tetrachloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
chloroform	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 8.0 ppm	<input type="checkbox"/> ≥ 8.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
cresol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.00 ppm	<input type="checkbox"/> ≥ 200.00 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,4-dichlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 7.5 ppm	<input type="checkbox"/> ≥ 7.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,2-dichloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
1,1-dichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4-dinitrotoluene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.13 ppm	<input type="checkbox"/> ≥ 0.13 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachlorobutadiene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
hexachloroethane	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 3.0 ppm	<input type="checkbox"/> ≥ 3.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
methyl ethyl ketone	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 200.0 ppm	<input type="checkbox"/> ≥ 200.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
nitrobenzene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pentachlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 100.0 ppm	<input type="checkbox"/> ≥ 100.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
pyridine	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 5.0 ppm	<input type="checkbox"/> ≥ 5.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
tetrachloroethylene/perchloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.7 ppm	<input type="checkbox"/> ≥ 0.7 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
trichloroethylene	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.5 ppm	<input type="checkbox"/> ≥ 0.5 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,5-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 400.0 ppm	<input type="checkbox"/> ≥ 400.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
2,4,6-trichlorophenol	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 2.0 ppm	<input type="checkbox"/> ≥ 2.0 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other
vinyl chloride	<input type="checkbox"/> None	<input checked="" type="checkbox"/> < 0.2 ppm	<input type="checkbox"/> ≥ 0.2 ppm	<input type="checkbox"/> TCLP	<input type="checkbox"/> Other

KOP

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste)

CONTAINS PU 239 AND AM 241. CONCENTRATIONS ABOVE BASED ON TOTAL METAL CONCENTRATIONS TAKING INTO ACCOUNT TCLP AND ENCAPSULATION BY CEMENTATION.

Do not write in this box - EM-8 use only

Waste Classification

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Non-RCRA waste | <input type="checkbox"/> RCRA-regulated solid waste | <input checked="" type="checkbox"/> RCRA-regulated hazardous waste | <input type="checkbox"/> Radioactive only |
| <input type="checkbox"/> PCB | <input type="checkbox"/> municipal refuse | <input type="checkbox"/> hazardous waste | <input type="checkbox"/> low-level waste |
| <input type="checkbox"/> non-PCB TSCA waste | <input type="checkbox"/> nonhazardous chemical waste | <input type="checkbox"/> mixed low-level waste | <input type="checkbox"/> transuranic waste |
| <input type="checkbox"/> asbestos | <input type="checkbox"/> administratively controlled waste | <input checked="" type="checkbox"/> mixed transuranic waste | |
| | <input type="checkbox"/> sanitary/industrial sludges | | |

RCRA Code 1 E002	RCRA Code 2 D006	RCRA Code 3 D007	RCRA Code 4 D008	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
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EM-8 Reviewer's Signature Michelle Cash	Date 7/30/93	Cost Center/Program Code for Analysis	Reference Number 6714
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CONTAINER PROFILE
53850
T-MTRU-TEMP

WS ID: 34589
C ID: 761711
ACTIVE

GENERAL INFORMATION

Container ID: 761711	
Labeled ID: 53850	
Optional ID:	Status: ACTIVE
Chemical Barcode:	Decommissioned: NO
Physical State: SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID: 34589	Container Subtype: 85-gallon steel drum
Work Path: T-MTRU-TEMP	Origin Date: 29-Jul-1993 12:00 am
Quantity (Univ):	Accum Start Date: 29-Jul-1993
Compactible:	Closed Date: 29-Jul-1993

Discard Matrix:

TID(s):

Gen Contact:

Insert By: WCATS APPLICATION (000000)

Waste Desc: (LEGACY WCCP) TRU LIQUID AND PARTICULATE WASTES IMMOBILIZED IN GYPSUM - BASED CEMENT AND TETRACHLOROETHYLENE

WEIGHTS AND VOLUMES

Container Volume: 0.32 CM	Gross Weight: 651.00 lb
Waste Volume: NOT SPECIFIED	Tare Weight: 110.00 lb
	Net Weight: 541.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: GEN-AREAS

Current: LANL: 54-G: RTR-HE



CONTAINER PROFILE
53850
T-MTRU-TEMP

WS ID: 34589
 C ID: 761711
 ACTIVE

PAYLOAD INFORMATION

Container Procurement

P.O. Number: _____ **Year of Manuf:** 1993
Lot No.: _____ **Serial No:** _____

Solution Package: 36: SP CIN01 Container Issues (Cans)
TRUCON Code: LA114A: SOLIDIFIED INORGANIC
Shipping Category: _____
CCP AK Report: CCP-AK-LANL-006: LANL TA-55 Mixed Transuranic Waste
WIPP Waste Stream: TA-55-36: WASTE STREAM DEFINITION NOT AVAILABLE
Matrix Code: S3150 - HOMOGENEOUS SOLIDS: INORGANIC HOMOGENEOUS SOLIDS: SOLIDIFIED HOMOGENEOUS SOLIDS
Defense Waste: _____ **Equiv. Comb. Matrix:** Non-combustible/Non-dispersible
Adeq. Ventilation: YES **Compliant Metal Cont.:** YES
Overpack (1 to 1): YES **Retrievable:** _____ **BIR WS Code:** LA-M4
Content Code: _____

COST CODES

Cost Center	Prog Code	Cost Account	Work Package	Percent Allocation	Cost Center Status	Cost Code Status	Recharge Mode
----	K567	---	---	100.00			SELECTION LIST

EPA CODES

System Code	Hazardous Waste No.	Waste Description & Treatment Subcategory
D006A	D006	Cadmium
D007A	D007	Chromium
D008A	D008	Lead
D039	D039	Tetrachloroethylene

FILTERS

Manufacturer	Model	Style	Diffusivity*	Serial Number	Torque Ft-lbs	Mfg Date Mon/Year
Not Specified	NA	Carbon Composite	0	3495		0/0
Not Specified	NA	Carbon Composite	0	4068		0/0

* Diffusivity is specified in moles per second per mole fraction

PACKING MATERIAL ADDED

Weight	Material Name	Thickness Inches (if applicable)
0.00 kg	Lead (Pb) Shielding(Thickness = 0.060 in)	6.30E-002



CONTAINER PROFILE
53850
T-MTRU-TEMP

WS ID: 34589
 C ID: 761711
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 72145, Status: Active</i>							
B/G Survey			= 0.40	=	=		Not Applicable
Neutron Survey			= 0.30	=	=		Not Applicable
Smear Results					Not Applicable	= 2.20	= 6.30

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 340504, Date: 07/29/1993, Derivation: Generator Entered Results (e.g., Offsite Assay)</i>								
44	1.20E+000	g	0.00E+000	N				NONE
52	5.67E+000	g	0.00E+000	N				NONE
Am-241	4.12E+000	Ci	0.00E+000	Y			Y	
Pu-238	9.72E-003	Ci	0.00E+000	Y			Y	
Pu-239	3.30E-001	Ci	0.00E+000	Y			Y	
Pu-240	7.72E-002	Ci	0.00E+000	Y			Y	
Pu-241	1.17E+000	Ci	0.00E+000	Y			Y	
Pu-242	4.47E-006	Ci	0.00E+000	Y			Y	
U-234	7.06E-007	Ci	0.00E+000	Y			Y	
U-235	1.23E-008	Ci	0.00E+000	Y			Y	

57347



LA00000057347

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # PR2777381		Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.		<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
		<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
Name LEHMAN CHARLES JR	Znumber 071894	Date MAR 31 2000		

2. GENERATOR'S PACKAGE INFORMATION

Group NMT-7	Technical Area 55	Building PF-4	Program Code BJ0700 KG19 3000 3000		
Additional Information TID		RADIONUCLIDE CONTENT			
		Nuclide	Amount	Uncertainty	C=Curie M=Gram
		PU-238	1.461E-3	5.062E-5	M
CONTAINER		LINER			
<input checked="" type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None	PU-239	1.370E+1	4.748E-1	M
<input type="checkbox"/> Steel Drum (85 gal. Overpack)	<input type="checkbox"/> 90 mil liner	PU-240	8.767E-1	3.037E-2	M
<input type="checkbox"/> Standard Waste Box	<input checked="" type="checkbox"/> 125 mil liner	PU-241	2.922E-2	1.012E-3	M
<input type="checkbox"/> RH Canister	INTERNAL SHIELDING		PU-242	2.922E-3	M
<input type="checkbox"/> Other (Call TWCO)	<input type="checkbox"/> None		AM-241	4.025E+0	M
<input type="checkbox"/> Standard Waste Box Overpack	Type	Thickness (in.)			
Carbon Filter ID	01 FS1940	LEAD	6.3E-2		
	02				
Waste Profile Request Number 31409					
Process Batch Code NA	<input checked="" type="checkbox"/> DP	<input type="checkbox"/> NON DP	If Non-DP waste, attach DOE approval documentation		
Gross Weight (lb.) 7.69E+2	NONRADIOACTIVE HAZARDOUS MATERIALS				
Net Weight (lb.) 6.07E+2	Name		EPA Code	Quantity (g)	
Shipping Category 1000400133	None				
LANL Waste Stream ID TA-55-14					
TRUCON Code 114B					
Date Closed (MMDDYY) NOV 27 2000	Accumulation Start Date (MMDDYY)				
The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.					
Name SMITH CHESTER A JR	Znumber 087715	Date SEP 6 2001			

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) (contact) 2.0E-1	Survey Date MAR 28 2001	Survey Meter Model RO2	Property Number 003370	Calibration Void Date JUL 31 2001
Neutron Dose Rate (mrem/h) (contact) 3.0E-1	Survey Date MAR 28 2001	Survey Meter Model SNRD	Property Number 012159	Calibration Void Date OCT 11 2001
Total Dose Rate (mrem/h) (contact) 5.0E-1				
Total Dose Rate (mrem/h) (1 meter) 3.0E-1	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm ²) 0.0E+0	Name MONTAGUE CHARLENE L			
Beta-Gamma Cont. (dpm/100cm ²) 0.0E+0	Znumber 110850	Date SEP 6 2001		

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54.	Name ARMIJO JODY A
	Znumber 108696 Date SEP 11 2001

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects.	Printed Name Graih M. Welsh	Date (Inspection Valid for 30 Days) 9-17-01
	Signature <i>Graih M. Welsh</i>	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	10.0 E - 0	Survey Meter Model RO-20	Property Number 9848	Calibration Void Date 10-11-01
Neutron Dose Rate (mrem/h)	10.0 E - 0	Survey Meter Model EL600/SURD	Property Number 12048/13136	Calibration Void Date 11-14-01/4-2-02
Total Dose Rate (mrem/h)	10.0 E - 0	The data in this section were collected according to approved procedures.		
Alpha Contamination (dpm/100cm ²)	10.0 E + 0	Printed Name Terry L Bishop	Date 10/2/01	
Beta-Gamma Cont. (dpm/100cm ²)	10.0 E + 0	Signature <i>Terry L Bishop</i>		

7. STORAGE SITE INFORMATION

Received By (Initials) OV	Date Received 9-21-01	ORIGINAL STORAGE DATA		
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.	Building Number 283	Layer 02	Row Number 10	
	Column Number 77	Date Stacked (MM,DD,YY) 09 25 01		
Printed Name Gabriel Valdez	Date 9-21-01	Printed Name Gabriel Valdez	Date 10-10-01	
Signature <i>Gabriel Valdez</i>		Signature <i>Gabriel Valdez</i>		

8. WASTE ACCEPTANCE OFFICE

Initials/Date	WE Description

NCR Number	Initials/Date	NCR Description

M M D D Y Y **9. DATA MANAGEMENT INFORMATION**

Date Entered In Database	110 116 01	Printed Name Michelle Cumpod	Signature <i>Michelle Cumpod</i>
Date Entry Verified	110 22 01	Printed Name Charlotte Fernandez	Signature <i>Charlotte Fernandez</i>

M M D D Y Y **10. DUPLICATE COPY**

Date Duplicate Filed	111 115 01	Printed Name Billy Martore	Signature <i>Billy Martore</i>
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**LOS ALAMOS NATIONAL LABORATORY
WASTE PROFILE SYSTEM**

WPF #: 31409



LA00000057347

27-Aug-2001 11:01 AM

(Version: 3)

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Generator : **NAKAOKA, RONALD K** MS : **E501** PH : **55971** Z# : **108508**
 WMC : **MCCORMICK, EGAN** MS : **E501** PH : **78158** Z# : **093573**
 Contact :
 RCRA Rev : **CORIZ, MICHELLE** MS : **J595** PH : **54000** Z# : **120950**
 Status : **ACTIVE** Activation Date : **27-Aug-1999** Expiration Date: **27-Aug-2002**
 Group : **NMT7** TA : **55** Bldg : **000004** Room: **401**

You are required to keep a copy of the WPF(s) in your files for at least three years. This WPF(s) is valid for one year or as long as the composition of the waste you have characterized remains the same and the generator remains the same. Should your waste or generator change, please submit a new WPF to FWO-SWO Customer Service, and attach a copy of the WPF which is being replaced.

Waste Accumu : **TSDF Site ID# 479**

Method of Char : **Acceptable Knowledge Documentation** Number: **See Below**

Waste Type : **Process Waste/Spent Chemical/Other**
 Waste Classes: **RCA Waste - RCA Waste**
RAD Waste - Radioactive-TRU
 Classif/Sensi - **N**

Waste Category: **Treated Hazardous waste residue**

Waste Sources : **Materials Processing/Production**

Waste Matrix : **Solid**

Matrix Type : **Homogeneous**

Waste/Proc Desc : **TRUWM-TA55-DP01, INSPECTION AND PACKAGING OF CERTIFIABLE COMBUSTIBLE AND NON-COMBUSTIBLE TRU WASTE. WASTE ORIGATION AND DISPOSITION FORMS (WODF) PROVIDED BY THE WASTE ORIGINATOR. TRUCON CODE LA 114, SOLIDIFIED INORGANIC PROCESS SOLIDS. ALL MATERIAL TYPES (MT). WASTE FORM: THE WASTE CONSISTS OF SOLIDIFIED INORGANIC PROCESS SOLIDS (PROCESS RESIDUE FROM EVAPORATOR BOTTOMS AND OTHER DISCARDABLE SOLUTIONS, PROCESS LEACHED SOLIDS, ASH FILTER CAKES, SALTS, METAL OXIDES, FINES, ETC.) IMMOBILIZED IN PORTLAND CEMENT TO FORM A NONCORROSIVE SOLID MONOLITH. THE WASTE FORM MAY CONTAIN TRACE (<1% WEIGHT) ORGANICS. PAPER, PLASTICS, AND NON-HAZARDOUS METALS MAY ALSO BE PRESENT. NO KNOWN HAZARDOUS CONSTITUENTS OR CHARACTERISTICS. DRUM CONSTITUENTS VARY FROM LOT TO LOT.**

Ignitability : **Not ignitable**

Corrosivity : **Non-aqueous**

Reactivity : **Non-reactive**

Boiling Point : **Not applicable**

Toxicity Characteristic Metals :

Contaminant	Method	Limit	Min	Max	Unit
ARSENIC	TCLP	Y			PPM
BARIUM	TCLP	Y			PPM
CADMIUM	TCLP	Y			PPM
CHROMIUM	TCLP	Y			PPM
LEAD	TCLP	Y			PPM
MERCURY	TCLP	Y			PPM

LOS ALAMOS NATIONAL LABORATORY WASTE PROFILE SYSTEM

WPF #: 31409

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SELENIUM	TCLP	Y			PPM
SILVER	TCLP	Y			PPM

Toxicity Characteristic Organic Compounds:

Contaminant	Method	Limit	Min	Max	Unit
BENZENE	TCLP	Y			PPM
CARBON TETRACHLORIDE	TCLP	Y			PPM
CHLOROBENZENE	TCLP	Y			PPM
CHLOROFORM	TCLP	Y			PPM
O-CRESOL	TCLP	Y			PPM
M-CRESOL	TCLP	Y			PPM
P-CRESOL	TCLP	Y			PPM
CRESOL - MIXED	TCLP	Y			PPM
1,4-DICHLOROBENZENE	TCLP	Y			PPM
1,2-DICHLOROETHANE	TCLP	Y			PPM
1,1-DICHLOROETHYLENE	TCLP	Y			PPM
2,4-DINITROTOLUENE	TCLP	Y			PPM
HEXACHLOROBENZENE	TCLP	Y			PPM
HEXACHLOROBUTADIENE	TCLP	Y			PPM
HEXACHLOROETHANE	TCLP	Y			PPM
METHYL ETHYL KETONE	TCLP	Y			PPM
NITROBENZENE	TCLP	Y			PPM
PENTACHLOROPHENOL	TCLP	Y			PPM
PYRIDINE	TCLP	Y			PPM
TETRACHLOROETHYLENE	TCLP	Y			PPM
TRICHLOROETHYLENE	TCLP	Y			PPM
2,4,5-TRICHLOROPHENOL	TCLP	Y			PPM
2,4,6-TRICHLOROPHENOL	TCLP	Y			PPM
VINYL CHLORIDE	TCLP	Y			PPM

Additional Chemical Constituents and Contaminants :

CAS NO	Constituent	MIN	MAX	UOM
7429-90-5	ALUMINUM	0	30	%
	AMMONIA	0	1	%
	ASH	0	10	%
7440-70-2	CALCIUM	0	30	%
	CHLORIDE	0	30	%
	FLUORIDE	0	30	%
7782-42-5	GRAPHITE	0	10	%
65997-15-1	PORTLAND CEMENT	50	60	%
	LEACHED RESIDUES	0	10	%
7439-95-4	MAGNESIUM	0	30	%
	NITRATES	0	30	%
7439-89-6	IRON	0	30	%
7440-02-0	NICKEL	0	1	%
	OXALATES	0	30	%
7440-90-7	POTASSIUM	0	30	%
	SILICA SOLIDS	0	10	%
7440-23-5	SODIUM	0	30	%
	SULFATES	0	30	%

LOS ALAMOS NATIONAL LABORATORY
WASTE PROFILE SYSTEM
WPF #: 31409

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Additional Information: REFER TO "WASTE PACKAGING DESCRIPTION TABLE" FOR TRUCON CODE
LA 114. THIS WPF REPLACES WPF 25338 (NEW GENERATOR)

WASTE CHARACTERIZATION INFORMATION

Radioactivity Category : **RADIOACTIVE-TRU**

RCRA Category : **NON-HAZARDOUS WASTE**

Secondary Info : N/A

Waste Classification : **TRANSURANIC WASTE**

Waste Acceptances :

EPA Hazardous Waste Code : N/A

TRU Waste Origination & Disposition Information

Itemid EVATL032900A4		Matrix Evaporator Bottoms				Date MAR 29 2000
Quantity	Gross Wt (kg)	Tare Wt	Net Wt (kg) 0.00	Volume (l) 17.80		Process Status EV
Generator MONTOYA DENNIS P				Znumber 166942	Room 401	Phone 7-2572
Waste Process Cement Fixation		Assay Other Assay		Combined into FT3-111500	Drumid	
Beryllium NO		Explosives NO		PCB's NO		
Compressed Gases NO		Free Liquids YES		Particulates NO		
Corrosive YES		Hazardous NO		Pyrophorics NO		
Comments TK4						

Assay Information

Isotope	MT	SNM(g)	Uncert(g)	Mcode	Limit	SNM(g)/unit	Date	By
AM-241	44	0.009345	0.000038	R04	0.00	0.001		Analytical Chemistry Report
PU-239	52	0.130652	0.001764	R04	3.37	0.007		Analytical Chemistry Report

Justification Memos

Memo ID
NONE

Hazardous Materials

EPA Code	Material	Wt (g)
NONE		

History

Date	Name	Event	Comments
NOV 15 2000	LEHMAN CHARLES JR	CERTIFIED	
NOV 15 2000	LEHMAN CHARLES JR	COMBINED	FT3-111500

TRU Waste Origination & Disposition Information

Itemid EVATL032900A5		Matrix Evaporator Bottoms				Date MAR 29 2000	
Quantity	Gross Wt (kg)	Tare Wt	Net Wt (kg) 0.00	Volume (l) 17.30			Process Status EV
Generator MONTROYA DENNIS P				Znumber 166942	Room 401	Bone 7-2572	
Waste Process Cement Fixation			Assay Other Assay		Combined into FT3-111500		Drumid
Beryllium NO			Explosives NO			PCB's NO	
Compressed Gases NO			Free Liquids YES			Particulates NO	
Corrosive YES			Hazardous NO			Pyrophorics NO	
Comments TK-1							

Assay Information

Isotope	MT	SNM(g)	Uncert(g)	Mcode	Limit	SNM(g)/unit	Date	By
AM-241	44	0.142725	0.001227	R04	0.00	0.008		Analytical Chemistry Report
PU-239	52	2.889100	0.112386	R04	3.37	0.167		Analytical Chemistry Report

Justification Memos

Memo ID
NONE

Hazardous Materials

EPA Code	Material	Wt (g)
NONE		

History

Date	Name	Event	Comments
NOV 15 2000	LEHMAN CHARLES JR	CERTIFIED	
NOV 15 2000	LEHMAN CHARLES JR	COMBINED	FT3-111500

TRU Waste Origination & Disposition Information

Itemid FT1-111400		Matrix Evaporator Bottoms				Date NOV 14 2000
Quantity	Gross Wt (kg)	Tare Wt	Net Wt (kg)	Volume (l)		Process Status EV
				47.40		
Generator LEHMAN CHARLES JR				Znumber 071894	Room 401	Phone 7-2572
Waste Process Cement Fixation		Assay Other Assay		Combined into		Drumid See Below
Beryllium NO		Explosives NO		PCB's NO		
Compressed Gases NO		Free Liquids YES		Particulates NO		
Corrosive YES		Hazardous NO		Pyrophorics NO		
Comments tk-5 and tk8						

Assay Information

Isotope	MT	SNM(g)	Uncert(g)	Mcode	Limit	SNM(g)/unit	Date	By
AM-241	44	10.494555	0.524728	M00	0.00	0.221		Analytical Chemistry Report
PU-239	52	28.781400	1.439070	M00	3.37	0.607		Analytical Chemistry Report

Justification Memos

Memo ID	EPA Code	Hazardous Materials Material	Wt (g)
NONE	NONE		

SNM Batch Information

Drum ID	Item ID		MT	SNM	Uncert	Volume	
LA00000057341	FT1-111400	A	44	6.930	0.347	31.30	
LA00000057341	FT1-111400	A	52	19.005	0.950	31.30	
LA00000057347	FT1-111400	B	44	3.565	0.178	16.20	Empty
LA00000057347	FT1-111400	B	52	9.776	0.489	16.20	Empty

History

Date	Name	Event	Comments
NOV 14 2000	LEHMAN CHARLES JR	COMBINED	EVDS032000A1
NOV 14 2000	LEHMAN CHARLES JR	COMBINED	EVATL032900A1
NOV 14 2000	LEHMAN CHARLES JR	SPLIT	LA00000057341
NOV 14 2000	LEHMAN CHARLES JR	SPLIT	LA00000057341
NOV 14 2000	LEHMAN CHARLES JR	SPLIT	LA00000057341
NOV 14 2000	LEHMAN CHARLES JR	SPLIT	LA00000057347
NOV 14 2000	LEHMAN CHARLES JR	SPLIT	LA00000057347

TRU Waste Origination & Disposition Information

Itemid FT3-111500		Matrix Evaporator Bottoms				Date NOV 15 2000
Quantity	Gross Wt (kg)	Tare Wt	Net Wt (kg)	Volume (l) 49.40	Process Status EV	
Generator LEHMAN CHARLES JR				Znumber 071894	Room 401	Phone 7-2572
Waste Process Cement Fixation		Assay Other Assay		Combined into	Drumid See Below	
Beryllium NO		Explosives NO		PCB's NO		
Compressed Gases NO		Free Liquids YES		Particulates NO		
Corrosive YES		Hazardous NO		Pyrophorics NO		
Comments TK-1						

Assay Information

Isotope	MT	SNM(g)	Uncert(g)	Mcode	Limit	SNM(g)/unit	Date	By
AM-241	44	0.459520	0.010980	M00	0.00	0.009		Analytical Chemistry Report
PU-239	52	4.835852	0.130677	M00	3.37	0.098		Analytical Chemistry Report

Justification Memos

Memo ID
NONE

Hazardous Materials

EPA Code	Material	Wt (g)
NONE		

SNM Batch Information

Drum ID	Item ID		MT	SNM	Uncert	Volume	
LA00000057347	FT3-111500	A	44	0.460	0.011	49.40	Empty
LA00000057347	FT3-111500	A	52	4.836	0.131	49.40	Empty

History

Date	Name	Event	Comments
NOV 15 2000	LEHMAN CHARLES JR	COMBINED	EVA TL032900A4
NOV 15 2000	LEHMAN CHARLES JR	COMBINED	EVA TL050100A1
NOV 15 2000	LEHMAN CHARLES JR	COMBINED	EVA TL032900A5
NOV 15 2000	LEHMAN CHARLES JR	SPLIT	LA00000057347
NOV 15 2000	LEHMAN CHARLES JR	SPLIT	LA00000057347
NOV 15 2000	LEHMAN CHARLES JR	SPLIT	LA00000057347
NOV 15 2000	LEHMAN CHARLES JR	SPLIT	LA00000057347

TRU Waste Origination & Disposition Information

Itemid EVDS032000A1		Matrix Evaporator Bottoms				Date MAR 20 2000
Quantity	Gross Wt (kg)	Tare Wt	Net Wt (kg) 0.00	Volume (l) 25.70	Process Status EV	
Generator MONTROYA DENNIS P				Zaumber 166942	Room 401	Phone 7-2572
Waste Process Cement Fixation		Assay Other Assay		Combined into FT1-111400	Drumid	
Beryllium NO		Explosives NO		PCB's NO		
Compressed Gases NO		Free Liquids YES		Particulates NO		
Corrosive YES		Hazardous NO		Pyrophorics NO		
Comments tk-5						

Assay Information

Isotope	MT	SNM(g)	Uncert(g)	Mcode	Limit	SNM(g)/unit	Date	By
AM-241	44	10.382800	0.519140	R04	0.00	0.404		Analytical Chemistry Report
PU-239	52	25.700000	1.285000	R04	3.37	1.000		Analytical Chemistry Report

Justification Memos

Memo ID	EPA Code	Hazardous Materials	Material	Wt (g)
NONE	NONE			

History

Date	Name	Event	Comments
NOV 14 2000	LEHMAN CHARLES JR	CERTIFIED	
NOV 14 2000	LEHMAN CHARLES JR	COMBINED	FT1-111400

TRU Waste Origination & Disposition Information

Itemid EVATL032900A1		Matrix Evaporator Bottoms				Date MAR 29 2000	
Quantity	Gross Wt (kg)	Tare Wt	Net Wt (kg) 0.00	Volume (l) 21.70			Process Status EV
Generator MONTROYA DENNIS P				Znumber 166942	Room 401	Phone 7-2572	
Waste Process Cement Fixation			Assay Other Assay		Combined into FT1-111400		Drumid
Beryllium NO		Explosives NO			PCB's NO		
Compressed Gases NO		Free Liquids YES			Particulates NO		
Corrosive YES		Hazardous NO			Pyrophorics NO		
Comments TK8							

Assay Information

Isotope	MT	SNM(g)	Uncert(g)	Mcode	Limit	SNM(g)/unit	Date	By
AM-241	44	0.111755	0.005588	R04	0.00	0.005		Analytical Chemistry Report
PU-239	52	3.081400	0.154070	R04	3.37	0.142		Analytical Chemistry Report

Justification Memos

Memo ID	EPA Code	Hazardous Materials Material	Wt (g)
NONE	NONE		

History

Date	Name	Event	Comments
APR 6 2000	SMITH CHESTER A JR	CERTIFIED	
NOV 14 2000	LEHMAN CHARLES JR	CERTIFIED	
NOV 14 2000	LEHMAN CHARLES JR	CERTIFIED	correct vol
NOV 14 2000	LEHMAN CHARLES JR	COMBINED	FT1-111400

TRU Waste Origination & Disposition Information

Itemid EVATL050100A1		Matrix Evaporator Bottoms			Date MAY 1 2000	
Quantity	Gross Wt (kg)	Tare Wt	Net Wt (kg) 0.00	Volume (l) 14.30	Process Status EV	
Generator VALDEZ AQUILINO D				Znumber 085599	Room 401	Hone 7-2572
Waste Process Cement Fixation		Assay Other Assay		Combined into FT3-111500	Drumid	
Beryllium NO		Explosives NO		PCB's NO		
Compressed Gases NO		Free Liquids YES		Particulates NO		
Corrosive YES		Hazardous NO		Pyrophorics NO		
Comments tk7						

Assay Information

Isotope	MT	SNM (g)	Uncert (g)	Mcode	Limit	SNM (g)/unit	Date	By
AM-241	44	0.307450	0.009715	R04	0.00	0.021		Analytical Chemistry Report
PU-239	52	1.816100	0.016527	R04	3.37	0.127		Analytical Chemistry Report

Justification Memos

Memo ID	EPA Code	Hazardous Materials Material	Wt (g)
NONE	NONE		

History

Date	Name	Event	Comments
NOV 15 2000	LEHMAN CHARLES JR	CERTIFIED	
NOV 15 2000	LEHMAN CHARLES JR	COMBINED	FT3-111500

*** IN CASE OF EMERGENCY CALL 505-667-6211 ***

S H I P F R O M	S H I P T O
TWSR #: 57347 Requestor: CHESTER A JR SMITH Z #: 087715 Phone: 72857 TA: 55 Bldg: PF4	EM-SWO Phone: 505-665-6158 Solid Radioactive Waste Management Los Alamos National Laboratory Location TA-54 Area-L Area-G TA-50 Bldg-1 Bldg-37 Transporter: LANL

Line Item	HM	DOT Shipping Description	Containers No./Type	Total Quantity	Unit / Vol
1	x	RQ, RADIOACTIVE MATERIAL, N.O.S., 7, UN2982	1 DM	769	P

57347: Solid, Elemental, AM241, PU238, PU239, PU240, PU241, PU242, 6.543e-01TBq(1.768e+01Ci), T.I.=0.3 RADIOACTIVE YELLOW II, Fissile EXCEPTED

HMTF # 302078

ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE

ERG#: 163

Road Closure Required.

SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, LABELED, AND PLACARDED; ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION; AND MEET THE WASTE ACCEPTANCE CRITERIA OF EM-SWO

PRINTED/TYPED NAME	SIGNATURE	DATE
<u>Jackie Bustamante</u>	x <u>Jackie Bustamante</u>	<u>9/21/01</u>
TRANSPORTER ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS		
PRINTED/TYPED NAME	SIGNATURE	DATE
<u>FRED MOYS</u>	x <u>Fred Moys</u>	<u>9/21/2001</u>



CONTAINER PROFILE
LA00000057347
T-TRU-TEMP

WS ID: 563
C ID: 20127
ACTIVE

GENERAL INFORMATION

Container ID:	20127	
Labeled ID:	LA00000057347	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	563	Container Subtype: 55-gallon steel drum
Work Path:	T-TRU-TEMP	Origin Date: 30-Mar-2000 11:59 pm
Quantity (Univ):		Accum Start Date:
Compactible:		Closed Date: 27-Nov-2000
Discard Matrix:		
TID(s):	(#1) (#2)	
Gen Contact:	CHESTER A JR SMITH (087715)	
Insert By:	WCATS APPLICATION (000000)	
Waste Desc:	TRUWM-TA55-DP01, INSPECTION AND PACKAGING OF CERTIFIABLE COMBUSTIBLE AND NON-COMBUSTIBLE TRU WASTE. WASTE ORIGINATIO...	

WEIGHTS AND VOLUMES

Container Volume:	55.00 gal	Gross Weight:	768.80 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	60.00 lb
		Net Weight:	607.00 lb

LOCATION

Pickup (Origin): LANL: 55-PF4: 400-AREA
Current: LANL: 54-G: 000232: STAGE: NS: NS



CONTAINER PROFILE
LA00000057347
T-TRU-TEMP

WS ID: 563
 C ID: 20127
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 2221, Status: Inactive -> Date: 08/23/2013</i>							
<i>Controlling Task: WMS RCT SURVEY (Task #84180), 09/06/2001, Executed</i>							
BIG Survey	003370	03/28/01	= 0.20	= 0.20	= 0.20	Not Applicable	
Neutron Survey	012159	03/28/01	= 0.30	= 0.10	= 0.10	Not Applicable	
Smear Results	090202	03/28/01	Not Applicable			= 0.00	= 0.00
<i>Survey ID: 64608, Status: Active</i>							
BIG Survey			= 0.00	=	=	Not Applicable	
Neutron Survey			= 0.00	=	=	Not Applicable	
Smear Results			Not Applicable			= 0.00	= 0.00

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 34731, Date: 03/28/2010, Derivation: System Partitioned (e.g., Packaging or Processing)</i>								
44	4.02E+000	g	1.77E-001	N				NONE
52	1.46E+001	g	4.54E-001	N				NONE
Am-241	4.02E+000	g	1.78E-001	Y			Y	
Pu-238	1.46E-003	g	5.06E-005	Y			Y	
Pu-239	1.37E+001	g	4.75E-001	Y			Y	
Pu-240	8.77E-001	g	3.04E-002	Y			Y	
Pu-241	2.92E-002	g	1.01E-003	Y			Y	
Pu-242	2.92E-003	g	1.01E-004	Y			Y	

61818



LA00000061818

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 71327	Inspected Items		
<i>This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging</i>	<input checked="" type="checkbox"/> Ring, Bolt, and Nut	<input checked="" type="checkbox"/> Chime	<input checked="" type="checkbox"/> Dents
	<input checked="" type="checkbox"/> Lid and Gasket	<input checked="" type="checkbox"/> Gouges	<input checked="" type="checkbox"/> Paint
Name LEHMAN CHARLES JR	Znumber 071894	Date JAN 9 2004	

2. GENERATOR'S PACKAGE INFORMATION

Group NMT-7	Technical 55	Building PF-4	Program Code 8J0700 KG19 3000 3000		
Additional Information Handling Code: S01,T04		TID Physical Form: Solid	RADIONUCLIDE CONTENT		
		Nuclide	Amount	Uncertainty	C=Curie M=Gram
		PU-238	1.295E-2	2.055E-4	M
		PU-239	1.215E+2	1.927E+0	M
<input checked="" type="checkbox"/> Steel Drum (55 gal.)	<input type="checkbox"/> None	PU-240	7.771E+0	1.233E-1	M
<input type="checkbox"/> Steel Drum (85 gal. Overpack)	<input type="checkbox"/> 90 mil liner	PU-241	2.590E-1	4.110E-3	M
<input type="checkbox"/> Standard Waste Box	<input checked="" type="checkbox"/> 125 mil liner	PU-242	2.590E-2	4.110E-4	M
<input type="checkbox"/> RH Canister	INTERNAL SHIELDING	AM-241	6.396E+0	2.400E-2	M
<input type="checkbox"/> Other (Call TWCO)	<input type="checkbox"/> None				
<input type="checkbox"/> Standard Waste Box Overpack	Type	Thickness (in.)			
Carbon Filter ID	01 LANL-884	LEAD	6.3E-2		
	02				
Waste Profile Request Number		31409			
Process Batch Code		NA	<input checked="" type="checkbox"/> DP	<input type="checkbox"/> NON DP If Non-DP waste, attach DOE approval document	
Gross Weight (lb.)		6.71E+2			
Net Weight (lb.)		5.09E+2			
Shipping Category		1000400133	None	Name	EPA Code Quantity (g)
LANL Waste Stream ID		TA-55-14			
TRUCON Code		114B			
Date Closed (MMDDYY)		MAR 24 2004 Accumulation Start Date (MMDDYY)			
<i>The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.</i>					
Name SMITH CHESTER A JR		Znumber 087715		Date APR 1 2004	

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)	0.0E+0			
Total Dose Rate (mrem/h) (1 meter)	0.0E+0			
<i>The data in this section were collected according to approved procedures</i>				
Alpha Contamination (dpm ² /100cm)	Name Not Required			
Beta-Gamma Cont. (dpm ² /100cm)	Znumber		Date	

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54	Name VALDEZ GABRIEL V Znumber 119403 Date APR 7 2004
---	--

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects	Printed Name <i>Gail M. Welsh</i>	Date (Inspection Valid for 30 Days) <i>6/8/06</i>
	Signature <i>Gail M. Welsh</i>	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	1.0	E	0	Survey Meter Model <i>R020</i>	Property Number <i>9382</i>	Calibration Void Date <i>8-22-06</i>
Neutron Dose Rate (mrem/h)	1.8	E	0	Survey Meter Model <i>SNRD</i>	Property Number <i>13597</i>	Calibration Void Date <i>3-22-07</i>
Total Dose Rate (mrem/h)	2.8	E	0	The data in this section were collected according to approved procedures.		
Alpha Contamination (dpm/100cm ²)	1.9	E	0	Printed Name <i>Jessica Bustos</i>	Date <i>6-20-06</i>	
Beta-Gamma Cont. (dpm/100cm ²)	2.8	E	0	Signature <i>Jessica Bustos</i>		

7. STORAGE SITE INFORMATION

Received By (Initials) <i>JG</i>	Date Received <i>6-8-06</i>	ORIGINAL STORAGE DATA				
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.	Building Number <i>105</i>	Layer <i>0</i>	Row Number <i>0</i>			
	Column Number <i>110</i>	Date Stacked (MM,DD,YY) <i>06 08 06</i>				
Printed Name <i>Juan Garcia</i>	Date <i>6-8-06</i>	Printed Name <i>Juan Garcia</i>	Date <i>6-8-06</i>			
Signature <i>Juan Garcia</i>		Signature <i>Juan Garcia</i>				

8. WASTE ACCEPTANCE OFFICE

Initials/Date	WE Description

NCR Number	Initials/Date	NCR Description

M M D D Y Y 9. DATA MANAGEMENT INFORMATION

Date Entered in Database	06 30 06	Printed Name <i>Beu Mtz.</i>	Signature <i>Beu Mtz.</i>
Date Entry Verified	06 30 06	Printed Name <i>Beu Mtz.</i>	Signature <i>Beu Mtz.</i>

M M D D Y Y 10. DUPLICATE COPY

Date Duplicate Filed	06 30 06	Printed Name <i>Beu Mtz.</i>	Signature <i>Beu Mtz.</i>
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*** IN CASE OF EMERGENCY CALL 505-667-6211 ***

SHIP FROM		SHIP TO	
TWSR #: 61818		EM-SWO Phone: 505-665-6158	
Requestor: CHESTER A JR SMITH		Solid Radioactive Waste Management	
Z #: 087715	Phone: 6672857	Los Alamos National Laboratory	
TA: 55	Bldg: PF4	Location TA-54 ___ Area-L ___ Area-G ___	
		TA-50 ___ Bldg-1 ___ Bldg-37 ___	
		Transporter: LANL	

Line Item	HM	DOT Shipping Description	Containers No./Type	Total Quantity	Unit / Vol
1	x	RQ, RADIOACTIVE MATERIAL, TYPE A PACKAGE, FISSILE NON SPECIAL FORM , 7, UN3327 <i>2 6/5/06</i>	1 DM	671	P

61818: Solid, Elemental, AM241, PU238, PU239, PU240, PU241, PU242, 2.116e+00 TBq (5.719e+01Ci), T.I.=0.0 RADIOACTIVE YELLOW II,

ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE

ERG#: 165

MANF 2006.4794 61818

SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

LIMITS WERE NOT EXCEEDED (SR 4.1.1, 4.1.2, 4.2.1, and 4.2.2)

THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, LABELED, AND PLACARDED; ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION; AND MEET THE WASTE ACCEPTANCE CRITERIA OF EM-SWO

PRINTED/TYPED NAME

SIGNATURE

DATE

Leslie Chan

X *[Signature]*

6/8/06

TRANSPORTER ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME

SIGNATURE

DATE

Larry Hayward

X *[Signature]*


8 June 06



CONTAINER PROFILE
LA00000061818
T-TRU-TEMP

WS ID: 563
C ID: 20438
ACTIVE

GENERAL INFORMATION

Container ID:	20438	
Labeled ID:	LA00000061818	
Optional ID:		Status: ACTIVE
Chemical Barcode:		Decommissioned: NO
Physical State:	SOLID	Container Type: DM: Metal drums, barrels, kegs
Waste Stream ID:	563	Container Subtype: 55-gallon steel drum
Work Path:	T-TRU-TEMP	Origin Date: 08-Jan-2004 11:59 pm
Quantity (Univ):		Accum Start Date:
Compactible:		Closed Date: 24-Mar-2004

Discard Matrix:

TID(s):	(#1) (#2)
Gen Contact:	CHESTER A JR SMITH (087715)
Insert By:	WCATS APPLICATION (000000)
Waste Desc:	TRUWM-TA55-DP01, INSPECTION AND PACKAGING OF CERTIFIABLE COMBUSTIBLE AND NON-COMBUSTIBLE TRU WASTE. WASTE ORIGINATIO...

WEIGHTS AND VOLUMES

Container Volume:	55.00 gal	Gross Weight:	670.60 lb
Waste Volume:	NOT SPECIFIED	Tare Weight:	60.00 lb
		Net Weight:	509.00 lb

LOCATION

Pickup (Origin):	LANL: 55-PF4: 400-AREA
Current:	LANL: 54-G: 000232: C014: L01: R10



CONTAINER PROFILE
LA00000061818
T-TRU-TEMP

WS ID: 563
 C ID: 20438
 ACTIVE

RADIOLOGICAL SURVEY

Survey Type	Instrument Number	Survey Date	At Contact mrem/hr	At 30 cm mrem/hr	At 1 M mrem/hr	Alpha dpm/100cm2	Beta/Gama dpm/100 cm2
<i>Survey ID: 67010, Status: Active</i>							
B/G Survey			= 1.00	=	=		Not Applicable
Neutron Survey			= 1.80	=	=		Not Applicable
Smear Results				Not Applicable		= 1.90	= 2.80

RADIONUCLIDES

Nuclide	Amount	Unit	Uncert	MT Derived (Y/N)	Activated (Y/N)	MDA Result (Y/N)	Normal Form (Y/N)	Measurement Code/Comment
<i>Status: Active, Assay Page: 34930, Date: 03/28/2010, Derivation: System Partitioned (e.g., Packaging or Processing)</i>								
44	6.40E+000	g	2.06E-002	N				NONE
52	1.30E+002	g	1.53E+000	N				NONE
Am-241	6.40E+000	g	2.40E-002	Y			Y	
Pu-238	1.30E-002	g	2.06E-004	Y			Y	
Pu-239	1.21E+002	g	1.93E+000	Y			Y	
Pu-240	7.77E+000	g	1.23E-001	Y			Y	
Pu-241	2.59E-001	g	4.11E-003	Y			Y	
Pu-242	2.59E-002	g	4.11E-004	Y			Y	

***TO VIEW THE VIDEO
THAT ACCOMPANIES
THIS DOCUMENT,
PLEASE CALL THE
HAZARDOUS WASTE
BUREAU AT 505-476-6000
TO MAKE AN
APPOINTMENT***