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# K-25

## OAK RIDGE K-25 SITE

**MARTIN MARIETTA**

### 1990 ANNUAL REPORT OF HAZARDOUS WASTE ACTIVITIES FOR THE OAK RIDGE K-25 SITE

FEBRUARY 1991

This document has been approved for release  
to the public by:

*Kevin D. Quist* 3/23/91  
Technical Information Officer Date  
Oak Ridge K-25 Site

*ChemRisk Document No. 1343*

MANAGED BY  
MARTIN MARIETTA ENERGY SYSTEMS, INC.  
FOR THE UNITED STATES  
DEPARTMENT OF ENERGY

This document has been reviewed for classification and has been determined to be UNCLASSIFIED.

*J. Ingram*

ADC Signature

3/23/95

Date

Date: 02/91

K/HS-344

1990 ANNUAL REPORT OF HAZARDOUS WASTE ACTIVITIES  
FOR THE OAK RIDGE K-25 SITE

ASSIGNED TO: \_\_\_\_\_

COPY NO.: \_\_\_\_\_

NOTICE TO RECIPIENT

You are charged with responsibility for this copy of K/HS-344, entitled 1990 Annual Report of Hazardous Waste Activities for the Oak Ridge K-25 Site. If new or revised pages are issued, you are responsible for inserting the new pages and destruction of superseded pages.

If this report is reassigned or is no longer needed, please report the name and address of the new assignee or return the report to:

Production Reports  
Martin Marietta Energy Systems, Inc.  
Oak Ridge K-25 Site  
Post Office Box 2003  
Building K-303-8, MS 7308  
Oak Ridge, Tennessee 37831-7308

Date: 02/91

K/HS-344

1990 ANNUAL REPORT OF HAZARDOUS WASTE ACTIVITIES  
FOR THE OAK RIDGE K-25 SITE

EPA ID No. TNO 89 009 0004

Prepared by the  
Oak Ridge K-25 Site  
Post Office Box 2003  
Oak Ridge, Tennessee 37831-7134  
managed by  
MARTIN MARIETTA ENERGY SYSTEMS, INC.  
for the  
U.S. DEPARTMENT OF ENERGY  
under contract DE-AC05-84OR21400

Date: 02/91

K/HS-344

**CERTIFICATION**

Martin Marietta Energy Systems, Inc.  
Co-operator of the Oak Ridge K-25 Site

I certify that the information contained in this report is true, accurate, and complete.

L. E. Hall Date 2-27-91

L. E. Hall, Manager  
Oak Ridge K-25 Site

Date: 02/91

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Date: 02/91

UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE  
HAZARDOUS WASTE NOTIFICATION

Date: 02/91

Hazardous Waste Notification

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2019A.

1. Organization's name  
UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE  
TNG 89-009-0004
2. Mailing address  
PO BOX 2003  
City  
DAKRRIDGE  
State  
TN  
Zip  
134  
378317466
3. Physical location or address  
TENNESSEE STATE RT 58 AT BLAIR RD  
County name  
ROANE  
Latitude  
35.5608  
Longitude  
84.2338
4. Owner name  
UNITED STATES DEPARTMENT OF ENERGY  
Phone  
0732  
(615) 576-0845
5. Manager or operator name  
UNITED STATES DEPARTMENT OF ENERGY (Operator)  
Martin Marietta Energy Systems, Inc. (Co-operator)  
Phone  
0732  
(615) 576-0845  
(615) 576-5997
6. Principal technical contact  
~~MARIANNA HIESKELLE~~ L.E. Hall  
Phone  
5997  
(615) 576-0314
7. Number of employees : Year began : SIC codes : Job shop  
~~3,300~~ 3,149 : 1943 : 2819 : NO
8. Emergency contacts  
Name : Time period covered : Phone  
A DOE SECURITY OPERATIONS CENTER : 24 HOURS : (615)576-1004  
B K-25 PLANT SHIFT SUPERINTENDENT : 24 HOURS : (615)574-3282
9. Current environmental permits for air, water, and radiol  
Give permit type, number and expiration date. In a range of related permits,  
summarize by giving the first and last permit number.  
SEE ATTACHMENT #1
10. Check hazardous waste fuel burning activities below.  
Fuel blending or marketing a( ) Fuel burning. c( )  
Transporting fuel b( )
11. I certify that this information is true, accurate and complete.  
Signature of authorized representative, title, date

Below is for Department use only

12. Date rcvd: County : Priority : Generator : Small Gen. : Special status  
: : : Yes No : Yes No :  
13. Date closed : Date regulated : Date deregulated : Insp. Freq.  
/00/00 : 1/01/84 : /00/00 : A
14. Comments

Date: 02/91

United States Department of Energy, K-25 Site

EPA ID Code: TN0 89-009-0004

<u>Air - TDHE Permit No.</u>	<u>Expiration Date</u>
012469P	None
012478P	None
012483P	None
012488P	None
012503P	None
012504P <sup>1</sup>	None
012505P	None
012506P	None
012508P	None
012659P	None
012660P	None
012661P	None
015097P	None
015098P	None
015099P	None
015100P	None
015101P	None
015596P	None
015690P	None

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<sup>1</sup>The Department of Energy, K-25 Site Office, submitted a request for withdrawal of this air permit on July 30, 1990; however, no acknowledgement has been received.

Date: 02/91

United States Department of Energy, K-25 Site

EPA ID Code: TN0 89-009-0004

<u>Air - TDHE Permit No.</u>	<u>Expiration Date</u>
015702P	None
015703P	None
015704P	None
015830P	None
016306P	None
016309P	None
016310P	None
016311P	None
016312P	None
016492P	None
017051P	None
017053P	None
017055P	None
017336P	None
017337P	None
017338P	None
017339P	None
017846P	None
018525P	None
018526P	None
018527P	None

Date: 02/91

United States Department of Energy, K-25 Site

EPA ID Code: TN0 89-009-0004

<u>Air - TDHE Permit No.</u>	<u>Expiration Date</u>
019608P	None
019609P	None
021563P	10-01-91
022111P	10-01-91
023118P	10-01-92
023119P	10-01-92
023120P	10-01-92
023662P	04-01-93
023663P	04-01-93
023762P	10-01-93
023796P	10-01-93
023797P	10-01-93
023798P	10-01-93
024105P	10-01-93
024270P	02-01-94
024271P	02-01-94
024272P	02-01-94
024297P	02-01-94
024298P	02-01-94
024299P	02-01-93
024301P	02-01-94

Date: 02/91

United States Department of Energy, K-25 Site

EPA ID Code: TN0 89-009-0004

<u>Air - TDHE Permit No.</u>	<u>Expiration Date</u>
024302P	02-01-93
024303P	02-01-94
024304P	02-01-94
024305P	04-01-93
024335P	02-01-94
024395P	04-01-93
024396P	10-31-93
024453P	10-31-93
024454P	10-31-93
024455P	10-01-93
024456P	10-01-93
024498P	04-01-93
024500P	04-01-93
024502P	04-01-93
024503P	04-01-93
024614P	10-31-93
024756P	04-01-93
024758P	10-01-93
024910P	10-31-93
024911P	10-31-93

Date: 02/91

United States Department of Energy, K-25 Site

EPA ID Code: TN0 89-009-0004

<u>Air - TDHE</u> <u>Permit No.</u>	<u>Expiration Date</u>
024943P <sup>2</sup>	10-31-93
024947P	10-31-93
025120P	10-31-94
025243P	10-01-93
025250P	10-01-93
025443P	10-01-93
025490P	10-01-93
025491P	10-01-93
025492P	10-01-93
025493P	10-01-93
025494P <sup>2</sup>	10-01-93
025495P	10-01-93
025585P	10-01-93
025514P	10-01-93
025655P	10-01-93
025656P	10-01-93
025657P	10-01-98
025658P	10-01-93
026164P	10-01-91
026548P	10-01-91

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<sup>2</sup>The Department of Energy, K-25 Site Office, submitted a request for withdrawal of this air permit on October 18, 1990; however, no acknowledgement has been received.

Date: 02/91

United States Department of Energy, K-25 Site

EPA ID Code: TN0 89-009-0004

<u>Air - TDHE Permit No.</u>	<u>Expiration Date</u>
026679P	10-01-98
028424P	08-01-93
029192P	10-01-94 (FAE-1200)
029895P	10-01-95
029896P	10-01-95
029897P	10-01-95
029898P	10-01-95
029899P	10-01-95
029900P	10-01-95
029901P	10-01-95
029902P	10-01-93
930506P	11-01-91
997340I	01-20-90 <sup>3</sup>
998065F	03-01-91

NESHAP - Radionuclide Emissions Approval to Construct

K-1435 TSCA Incinerator	N/A
K-1419-20 Fluoride Scrubber Floor Plan and Cylinder Cleaning Facility	N/A

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<sup>3</sup>The Oak Ridge K-25 Site is operating on an extension for this permit granted in a letter from TDHE to the Department of Energy dated January 18, 1991.

Date: 02/91

United States Department of Energy, K-25 Site

EPA ID Code: TN0 89-009-0004

Water (NPDES)

NPDES Permit TN 0002950<sup>4</sup>

<u>Discharge Identification</u>	<u>Location</u>
001	K-1700
005	K-1203
006	K-1007-B
007	K-901-A
008 (Inactive)	K-710
009	K-1515-C
010	K-1407E-F
011	K-1407-J

---

<sup>4</sup>The current permit expired February 28, 1989, but was automatically extended because the permit renewal application was submitted prior to August 28, 1988. The new draft permit was issued for public notice on December 10, 1990.

Date: 02/91

**SECTION B**

Date: 02/91

UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE  
HAZARDOUS WASTE MAINTENANCE FEES

Date: 02/91

1991 Hazardous Waste Generator Maintenance Fees

Tennessee Department of Health and Environment, Division of Solid Waste Management. 701 Broadway, Fourth Floor, Customs House, Nashville, Tennessee 37247-3530

Instructions

Line 1: Complete the following to determine if you owe the hazardous waste maintenance fee for generators.

- 1.1 If you shipped hazardous waste offsite in calendar year 1990, enter the total amount in kilograms. 5,000 kg
- 1.2 Enter the amount of hazardous waste shipped off site in 1990 that was completely excluded under Rule 1200-1-11-02(1)(d)3(ii), e.g. fly ash, drilling fluids, and cement kiln dusts. Enter the amount in kilograms. 0 kg
- 1.3 Subtract line 1.2 from line 1.1 and enter the difference. 5,000 kg
- 1.4 Enter the number of months in 1990 that you generated 100 kilograms or more but less than 1,000 kilograms of hazardous waste. 0
- 1.5. Enter the number of times you accumulated 1,000 kilograms or more of hazardous waste in 1990 before shipping off site. 262
- 1.6 Enter the number of times you generated or accumulated one or more kilograms of acutely hazardous waste in 1990. See Rule 1200-1-11-.02(4)(d)5. 3
- 1.7 Enter the number of months in 1990 that you generated 1,000 kilograms or more of hazardous waste. 12
- 1.8 Add lines 1.4 through 1.7 and enter the sum disregarding the units of measurement. 277

If either lines 1.3 or 1.8 are zero, you owe no fee. Enter zero in line 1 below and skip to line 2.

If lines 1.6 and 1.7 are both zero, but either line 1.4 or 1.5 is greater than zero, enter \$350 on line 1 below. Skip to line 2.

If either line 1.6 or 1.7 is greater than zero, enter \$700 on line 1 below.

Line 2: Certify that the information given is true, accurate and complete by an authorized representative of the site. Sign, give title and date.

Return the certified form even if no fees are due.

EPA ID CODE TNO 89-009-0004 Y-Y-Y  
 UNITED STATES DEPT OF ENERGY K-25  
 SITE  
 MARIANNA HIESKELLE L.E. Hall  
 PO BOX 2003  
 OAKRIDGE TN 37831-7134

Please complete and return the original to the above address.

For technical assistance, call 1-(800) 237-7018 (in Tennessee only.)

1. See the instructions to determine if you owe a hazardous waste generator maintenance fee. If you are a fully regulated generator, enter \$700. If you are a small quantity generator, enter \$350. Else, enter zero. Submit the completed form with your check or money order payable to Tennessee Department of Health and Environment. Do not send cash. \$700.00

2. Certify that the information given above is true, accurate and complete.  
 Signature of owner, manager or authorized representative. Title Date

For DEPARTMENT USE CD No.	Date received	Amount	Receipt #	Comments

Date: 02/91

1991 Hazardous Waste TSDR Permit Maintenance Fees

Tennessee Department of Health and Environment, Division of Solid Waste Management. 701 Broadway, Fourth Floor, Customs House, Nashville, Tennessee 37247-3530

EPA ID: TNO 89-009-0004

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: M-G-SMITH L.E. Hall
PO BOX 2003
OAK RIDGE, TN 37831-7468 7134

Please complete and return the original to the above address.

When gallons are to be entered on this form, you may use the conversion factors given in Table 2.

For technical assistance, call 1-(800) 237-7018 (in Tennessee only.)

IF YOU HAVE INTERIM STATUS OR A PERMIT TO OPERATE A TREATMENT, STORAGE, DISPOSAL OR RECYCLING FACILITY IN 1 THE TOTAL MAINTENANCE FEE INDICATED IN TABLES 1-3 IS DUE AND PAYABLE EVEN IF THE FACILITY IS INACTIVE DURING THIS PERIOD.

1. If you were authorized for storage operations in 1991, complete this question; else go to 2.
a. Enter total design capacity of your storage operation in gallons. 16,388,835
b. If your facility was authorized for storage from off-site generators, circle "OFF SITE" to the right; else, circle "ON SITE". OFF SITE
c. Enter annual permit maintenance fee for storage operations from Table 1. \$9,000
2. If you were authorized for treatment operations in 1991, complete this question; else go to 3.
a. Enter total design capacity of your treatment operation in gallons per day. 102,560
b. If your facility was authorized for treatment from off-site generators, circle "OFF SITE" to the right; else, circle "ON SITE". OFF SITE
c. Enter annual permit maintenance fee for treatment operations from Table 2. \$7,000
3. If you were authorized for disposal operations in 1991, complete this question; else go to 4.
a. If your facility was authorized for disposal from off-site generators, circle "OFF SITE" to the right; else, circle "ON SITE". OFF SITE
b. Enter annual permit base maintenance fee for disposal operations from Table 3. -
c. Enter the amount of remaining design capacity of landfill operations in acre-feet. -
d. Calculate the added landfill fee by multiplying the appropriate rate from Table 3 by item 3c and enter to the right. -
e. Enter the amount of remaining design capacity of land application operations in acres. -
f. Calculate the added land application fee by multiplying the appropriate rate from Table 3 by item 3e and enter to the right. -
g. Enter the amount of estimated remaining design capacity of injection wells in million gallons. -
h. Calculate the added injection well fee by multiplying the appropriate rate from Table 3 by item 3g and enter to the right. -
4. Add the TSDR fees and enter to the right. (Items 1c, 2c, 3b, 3d, 3f and 3h.) \$16,000
Submit form with check or money order payable to Tennessee Department of Health and Environment. Do not send cash through the mail.
5. Certify that the information given above is true, accurate and complete.

Signature of owner, manager or authorized representative. Title Date

Table with 5 columns: For DEPARTMENT USE, Date received, Amount, Receipt #, Comments. Row 1: CD No.

Date: 02/91

**SECTION C**

Date: 02/91

UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE  
1990 OFFSITE SHIPPING REPORT

1990 Offsite Shipping Report

(For wastes shipped off site only.)

Please complete and return this form to following address:

EPA ID CODE TN0 89-009-0004 Y-Y-Y  
 UNITED STATES DEPT OF ENERGY K-25  
 SITE  
 MARIANNA HIESKELL- L.E. Hall  
 PO BOX 2003  
 OAKRIDGE TN 37831-7134

Tennessee Department of Health and Environment  
 Division of Solid Waste Management  
 Customs House, Fourth Floor  
 701 Broadway  
 Nashville, Tennessee 37247-3530

Also, complete this form when terminating business.  
 For technical assistance, call 1 (800) 237-7018 in Tennessee only.

Waste streams or 45'	Shipping Name / Waste name	EPA Waste codes	Amount shipped in kilograms	Number of shipments	TBR/Destination Facility EPA ID number	Transporter EPA ID number	TBR Handling codes
a 35, FS	Waste Flammable Liquid, NOS/Flammable Liquids (Lab Packs)	D001, U213	700	1	LAD010395127	LAD981059017	T07
b 36, FS	Waste Corrosive Liquid, NOS/Corrosive Liquids (Lab Packs)	D002, D006, U134	485	1	LAD010395127	LAD981059017	T07
c 37, FS	Waste Corrosive Solids, NOS/Corrosive Solids (Lab Packs)	D002, D003	7	1	LAD010395127	LAD981059017	T07
d 38, FS	Waste Poisonous Liquid, NOS/Poisonous Liquids (Lab Packs)	D004	6	1	LAD010395127	LAD981059017	T07, T39, D81
e 39, FS	Waste Poisonous Solids, NOS/Poisonous Solids (Lab Packs)	D004	6	1	LAD010395127	LAD981059017	T07, T39, D81
f 40, FS	Waste Oxidizer, NOS/ Oxidizing Substances (Liquids)	D001	25	1	LAD010395127	LAD981059017	T07, T39, D81
g FS (42)	Waste Hazardous Substance, NOS/Waste Oils and Waste Oils Contaminated with PCBs or Solvents D00X	Foot, F003 Foot, F003, D001	854	1	LAD010395127	LAD981059017	T06
h FS (60)	Hazardous Waste Liquid, NOS/Hazardous Waste Liquid	Foot, F003, Foot, D00X	145	1	LAD010395127	LAD981059017	T06
i 75, FS	Waste Organic Peroxide, Liquid, NOS/Benzoyl Peroxide and Organic Peroxides	D001	6	1	LAD010395127	LAD981059017	T07

(Certification: I certify that the above information is true, accurate and complete. (Sign by generator and give title and date)

1990 Offsite Shipping Report

(For wastes shipped off site only.)

Please complete and return this form to following address:

EPA ID CODE TN0 89-009-0004 Y-Y-Y  
 UNITED STATES DEPT OF ENERGY K-25  
 SITE  
 MARIANNA HIESKELL L.E. Hall  
 PO BOX 2003  
 OAKRIDGE TN 37831-7134

Tennessee Department of Health and Environment  
 Division of Solid Waste Management  
 Customs House, Fourth Floor  
 701 Broadway  
 Nashville, Tennessee 37247-3530

Also, complete this form when terminating business.  
 For technical assistance, call 1 (800) 237-7018 in Tennessee only.

2 Waste streams (Dot Shipping Name / Waste name or "FG")	EPA Waste codes	Amount shipped in kilograms	Number of shipments	TSDF/Destination Facility EPA ID number	Transporter EPA ID number	TSDF Handling codes
<sup>a</sup> 103 Waste Cyclohexane/ Waste Cyclohexane	D001	18	1	LAD010395127	LAD981059017	T07
<sup>b</sup> FS(122) Hazardous Waste Solid, NOS/Hazardous Waste Solid (Bulk)	F001, F002, F003, F006, D001, D0MX	905	1	LAD010395127	LAD981059017	T39, D81
<sup>c</sup> 128, FS Flammable Solids, NOS/ Flammable Solids Lab Pack	D001, D003	72	1	LAD010395127	LAD981059017	T07
<sup>d</sup> 137, FS Waste ORM-A, NOS/ Waste ORM-A (Lab Packs)	U0MX, F003, D007	237	1	LAD010395127	LAD981059017	T07, T39, D81
<sup>e</sup> 138, FS Waste Flammable Liquid, NOS / Flammable Liquids (Bulk)	D001, D002, D0MX	1,031	1	LAD010395127	LAD981059017	T06
<sup>f</sup> FS(140) Hazardous Waste Solid, NOS/ Hazardous Waste Solid (Lab Packs)	P0MX, U0MX, D0MX	148	1	LAD010395127	LAD981059017	T07, T31, D81
<sup>g</sup> FS(141) Waste ORM-A, NOS/ Waste ORM-A (Bulk)	F002	143	1	LAD010395127	LAD981059017	T06
<sup>h</sup> FS(142) Waste Corrosive Liquid, NOS/ Corrosive Liquids (Bulk)	D001, D002, D007, D009	205	1	LAD010395127	LAD981059017	T06
<sup>i</sup> FS(143) Waste ORM-B, NOS/Waste ORM-B (Lab Packs)	D006	7	1	LAD010395127	LAD981059017	T07

I certify that the above information is true, accurate and complete. (Sign by generator and give title and date.)

Date: 02/91

## SHIPMENT OF TREATABILITY STUDY SAMPLES

In accordance with Tennessee Department of Health and Environment Rule 1200-1-11-.02(1)(d)(5)(ii)(VI), the following information is provided for the Demonstration of Cometabolic Bioremediation Treatability Study samples generated by the U.S. Department of Energy, Oak Ridge K-25 Site:

1. Amount of Waste Shipped -

6 kg of groundwater seepage flow

2. Name of Laboratory or Testing Facility That Received the Waste -

U.S. Department of Energy, Oak Ridge National Laboratory

3. Address of Laboratory or Testing Facility That Received the Waste -

U.S. Department of Energy, Oak Ridge National Laboratory  
Energy Research and Development  
P. O. Box 2001  
Oak Ridge, Tennessee 37831

4. Installation Identification Number of Laboratory or Testing Facility That Received the Waste -

TN1 89 009 0003

5. Date the Shipment Was Made -

October 31, 1990

6. Disposition of Unused Samples and Residues -

Unused samples and residues will be stored on-site at the Oak Ridge National Laboratory and not returned to the Oak Ridge K-25 Site.

Date: 02/91

SECTION D

Date: 02/91

UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE  
1990 DETAIL REPORT FOR TSDR FACILITIES

1990 Detail Report for TSDR Facilities

(For wastes received from off-site only.)

Page 1 of 1

Please complete and return this form to following address:

Tennessee Department of Health and Environment  
 Division of Solid Waste Management  
 Customs House, Fourth Floor  
 701 Broadway  
 Nashville, Tennessee 37247-3530

EPA ID: TN0 89-009-0004  
 UNITED STATES DEPT. OF ENERGY K-25 SITE  
 Attn: M-G SMITH L.E. Hall  
 PO BOX 2003  
 OAK RIDGE, TN 37831-7468-7134

Also, complete this form when terminating business.  
 For technical assistance, call 1 (800) 237-7018 in Tennessee only.

2. Dot Shipping Name / Waste name	EPA Waste codes	Amount shipped in kilograms	Number of shipments	Generator EPA ID number	Transporter EPA ID number	TSR handling codes
a. Hazardous Waste Solid, NOS, ORM-E / Y4	F006	168,450	12	TN3 89 009 0001	TN3 89 009 0001	S01
b. Hazardous Waste Solid, NOS, ORM-E / Y5	F006, D007	14,789	1	TN3 89 009 0001	TN3 89 009 0001	S01
c. Waste Acetonitrile, Flammable Liquid / Y10	D001	12,045	2	TN3 89 009 0001	TN3 89 009 0001	S02
d. Waste Mercury Metallic, ORM-B / Y18	D009	239,093	15	TN3 89 009 0001	TN3 89 009 0001	S01
e. Hazardous Waste Solid, NOS, ORM-E / Y20	F002	1,391	1	TN3 89 009 0001	TN3 89 009 0001	S01
f. Waste Radioactive Material, NOS, Radioactive Material / R1	D008	5,285	1	0HD 980683544	NYD980769947	S02
g. Waste Radioactive Material, NOS, Radioactive Material / R2	F001	1,245	1	0HD 980683544	NYD980769947	S02
h.						
i.						

3. Certification: I certify that the above information is true, accurate and complete. (Sign by TSR owner/operator and give title and date.)

Date: 02/91

SECTION E

Date: 02/91

UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE  
1990 SUMMARY REPORT FOR TSDR FACILITIES

**1990 Summary Report for TSDR Facilities**  
 (For all permitted or Interim status facilities)

Please complete and return this form to following address:  
 Tennessee Department of Health and Environment  
 Division of Solid Waste Management  
 Customs House, Fourth Floor  
 701 Broadway  
 Nashville, Tennessee 37247-3530

EPA ID: TN0 89-009-0004  
 UNITED STATES DEPT. OF ENERGY K-25 SITE  
 Attn: M.C. SMITH L.E. Hall  
 PO BOX 2003  
 OAK RIDGE, TN 37831-7468- 7134

Also, complete this form when terminating business.  
 For technical assistance, call 1 (800) 237-7018 in Tennessee only.

2. Dot Shipping Name / Waste name	EPA Waste codes	Amount Onsite Begin of Year (kg)	Amount Received (kg)	Amount Treat/Disposed/Ship (kg)	Amount Onsite End of Year (kg)	Treatment/Disposed Handling Codes
a. / K-1420 Nitric Acid (6)	D002	0	8,850	0	8,850	
b. Hazardous Waste Liquid, NOS/ Electroless Nickel Solution (8)	F006, D002, D007, D009	830	0	0	830	
c. Waste Corrosive Liquid, NOS/ K-1501 Hydrogen Softener Blowdown (12)	D002	0	8,420,000	8,420,000	0	T31, T23
d. Waste Sodium Hydroxide Solution Sodium Hydroxide Solution (18)	D002	20	0	0	20	
e. Waste Corrosive Liquid, NOS/ K-1401 Diverser (26)	D002, D006, D007	387	0	0	387	
f. Waste Flammable Liquid, NOS/ Flammable Liquids (Lab Packs) (35)	DOMX, FOMX, UOMX	219	261	237	243	Shipped
g. Waste Corrosive Liquid, NOS/ Corrosive Liquids (Lab Packs) (36)	U134, DOMX	408	486	365	529	Shipped
h. Waste Corrosive Solids, NOS/ Corrosive Solids (Lab Packs) (37)	D002, D003, D006, D008	2	1	2	1	Shipped
i. Waste Poisonous liquid, NOS/ Poisonous Liquids (Lab Packs) (38)	UOMX, POMX, DOMX	1	0	1	0	Shipped

3. Certification: I certify that the above information is true, accurate and complete. (Sign by ISR owner/operator and give TITLE and date.)

1990 Summary Report for TSDR Facilities

(For all permitted or interim status facilities)

EPA ID: TN0 89-009-0004

UNITED STATES DEPT. OF ENERGY K-25 SITE  
 Attn: M-G SMITH L.E. Hall  
 PO BOX 2003  
 OAK RIDGE, TN 37831-7468 713.4

Please complete and return this form to following address:

Tennessee Department of Health and Environment  
 Division of Solid Waste Management  
 Customs House, Fourth Floor  
 701 Broadway  
 Nashville, Tennessee 37247-3530

Also, complete this form when terminating business.  
 For technical assistance, call 1 (800) 237-7018 in Tennessee only.

2. Dot Shipping Name / Waste name	EPA Waste codes	Amount Onsite Begin of Year (kg)	Amount Received (kg)	Amount Treat/Disposed/Ship (kg)	Amount Onsite End of Year (kg)	Treatment/Disposal Handling Codes
a. Waste Poisonous Solids, NOS/ Poisonous Solids (Lab Packs) (39)	UOMX, DOMX, POMX	4	3	4	3	Shipped
b. Waste Oxidizer, NOS/Oxidizing Substances (Liquids) (40)	DOMX, U160	9	22	17	14	Shipped
c. Hazardous Waste Liquid, NOS/ Hazardous Waste Lab Packs (41)	F003, U225, DOMX	64	0	0	64	
d. Waste Hazardous Substance, NOS/ Waste oils and Waste Oils Contaminated with PCBs and/or Solvents (42)	F001, F002, F003, D001, DOMX, UOMX	586,442	97,738	68,844	615,336	Shipped; To 7
e. Waste Flammable Liquid, NOS/ Paint Waste (44)	D001, D007, D008, D009	29,660	11,209	0	40,869	
f. Waste UF <sub>6</sub> Low Specific Activity/ Uranium Hexafluoride (47)	D002	513	0	0	513	
g. Waste Compressed Gas, Nonflammable, NOS / Halogenated Gases (49)	D003, D002	467	0	0	467	
h. Hazardous Waste Solid, NOS/ K-1232 Spent Carbon Filter Agent (52)	F001, F002, F003	25,284	0	0	25,284	
i. Hazardous Waste Liquid, NOS/ Hazardous Waste Liquid (60)	F001, F002, F003, DOMX	27,091	25,874	2,742	50,223	Shipped; T31, T23, T40

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1990 Summary Report for TSDR Facilities

(For all permitted or interim status facilities)

Please complete and return this form to following address:  
 Tennessee Department of Health and Environment  
 Division of Solid Waste Management  
 Customs House, Fourth Floor  
 701 Broadway  
 Nashville, Tennessee 37247-3530

EPA ID: TNO 89-009-0004  
 UNITED STATES DEPT. OF ENERGY K-25 SITE  
 Attn: M-G SMITH L.E. Hall  
 PO BOX 2003  
 OAK RIDGE, TN 37831-7468 7134

Also, complete this form when terminating business.  
 For technical assistance, call 1 (800) 237-7018 in Tennessee only.

2. Dot Shipping Name / Waste name	EPA Waste codes	Amount Onsite Begin of Year (kg)	Amount Received (kg)	Amount Treat/Disposed/Ship (kg)	Amount Onsite End of Year (kg)	Treatment/Disposed Handling Codes
a. Waste Flammable Liquid, NOS/ Centrifuge Epoxies/Resins (62)	D001	7,581	0	0	7,581	
b. Hazardous Waste Solids, NOS/ K-1232/CNF Centrifuged Sludge (64)	F001, F002, F003, F006	526,200	69,295	0	595,495	
c. Hazardous Waste Liquid, NOS/ Laboratory Acids (BMP) (70)	D001, D002, D008, D009	73,342	23,092	0	96,434	
d. Hazardous Waste Liquid, NOS/ Laboratory Bases (BMP) (71)	D002	20,250	2,864	0	23,114	
e. Hazardous Waste Liquid, NOS/ Laboratory Organics (BMP) (72)	D001, F001, F002, F003, F005, D00X	12,200	6,727	0	18,927	
f. Hazardous Waste Solids, NOS/ Laboratory Sludges (BMP) (73)	D008, D009	1,753	273	0	2,026	
g. Hazardous Waste Liquid, NOS/ Silver Recovery (74)	D011, D002	26,354	7,570	0	33,924	
h. Waste Organic Peroxide Liquid, NOS/ Benzoyl Peroxide and Organic Peroxides (75)	D001, D003	2	0	2	0	Shipped
i. Waste Mercury Metallic/ Metallic Mercury (82)	U151, D009	396	781	0	1,177	

3. Certification: I certify that the above information is true, accurate and complete. (Sign by ISM owner/operator and give title and date.)

**1990 Summary Report for TSDR Facilities**  
(For all permitted or interim status facilities)

Please complete and return this form to following address:  
 Tennessee Department of Health and Environment  
 Division of Solid Waste Management  
 Customs House, Fourth Floor  
 701 Broadway  
 Nashville, Tennessee 37247-3530

EPA ID: TNO 89-009-0004

UNITED STATES DEPT. OF ENERGY K-25 SITE  
 Attn: M-C SMITH- L.E. Hall  
 PO BOX 2003  
 OAK RIDGE, TN 37831-7460-7134

Also, complete this form when terminating business.  
 For technical assistance, call 1 (800) 237-7018 in Tennessee only.

2. Dot Shipping Name / Waste name	EPA Waste codes	Amount Onsite Beg In of Year (kg)	Amount Received (kg)	Amount Treated/Disposed/Ship (kg)	Amount Onsite End of Year (kg)	Treatment/Disposed Handling Codes
a. Hazardous Waste Solid, NOS/ Rags Contaminated With Solvents (84)	F006, D002	2,409	0	0	2,409	
b. Hazardous Waste Solid, NOS/ TSCA Incinerator Ash (85)	F001, F002, F003, F006	89,373	14,233	0	103,606	
c. Waste Perchloroethylene Mixture/ Methanol, Perchloroethylene, & Ethylene Glycol Mixture (86)	F003	900	0	0	900	
d. Waste Flammable Liquid, NOS/ Methanol, Perchloroethylene, & Kerosene (87)	F003	901	0	0	901	
e. Hazardous Waste Liquid, NOS/ Methanol and Water (88)	F003	2,000	0	0	2,000	
f. Waste Flammable Liquid, NOS/ Chlorobenzene Mixture (89)	F002	2,718	0	0	2,718	
g. Hazardous Waste Solid, NOS/ Residual Carbon Tetrachloride and Silicene (90)	F001	25,562	0	0	25,562	
h. Hazardous Waste Solid, NOS/ Metal Shavings Containing Lead and Lead Products (93)	D00B	68	0	0	68	
i.						

3. Certification: I certify that the above information is true, accurate and complete. (Sign by TSDR owner/operator and give title and date.)

**1990 Summary Report for TSDR Facilities**  
 (For all permitted or interim status facilities)

Please complete and return this form to following address:  
 Tennessee Department of Health and Environment  
 Division of Solid Waste Management  
 Customs House, Fourth Floor  
 701 Broadway  
 Nashville, Tennessee 37247-3530

EPA ID: TNO 89-009-0004  
 UNITED STATES DEPT. OF ENERGY K-25 SITE  
 Attn: M-G-SMITH L.E. Hall  
 PO BOX 2003  
 OAK RIDGE, TN 37831-7468 7134

Also, complete this form when terminating business.  
 For technical assistance, call 1 (800) 237-7018 in Tennessee only.

2. Dot Shipping Name / Waste name	EPA Waste codes	Amount Onsite Begin of Year (kg)	Amount Received (kg)	Amount Treated/Disposed/Ship (kg)	Amount Onsite End of Year (kg)	Treatment/Disposal Handling Codes
a. Waste Diethyl Phthalate / Diethyl Phthalate (107)	U107	227	205	0	432	
b. Waste ORM-E/Asbestos Covered Lead Pipe ( 121)	D008	2,318	0	0	2,318	
c. Hazardous Waste Solid, NOS/ Hazardous Waste Solid (Bulk) (122)	F001, F002, F003, F006, D001, D00X	463	54,621	905	54,179	Shipped
d. Compressed Gas, Flammable/ Waste Compressed Gas Flammable NOS (125)	D001, U043, U115	12	16	0	28	
e. Hazardous Waste Solid, NOS/ Waste Sludge From Closure of B/C Pond (126)	F006	35,296,486	8,955	0	35,305,441	
f. Flammable Solids, NOS/Flammable Solids Lab Pack (128)	D001, D003	50	43	61	32	Shipped
g. Flammable Solid Waste, NOS/ Flammable Solids (129)	U223, D001	1,306	0	0	1,306	
h. Waste Flammable Corrosive Liquid NOS/Flammable Corrosive Liquids (130)	D001, D002, D005, D006	4	0	0	4	
i. Waste Oxidizing Material/Oxidizing Solids (Substance Material) (131)	D001, D003	6	6	0	12	

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**1990 Summary Report for TSDR Facilities**  
(For all permitted or interim status facilities)

EPA ID: TNO 89-009-0004

UNITED STATES DEPT. OF ENERGY K-25 SITE  
Attn: M-G SMITH- L.E. Hall  
PO BOX 2003  
OAK RIDGE, TN 37831-7468 7134

Please complete and return this form to following address:

Tennessee Department of Health and Environment  
Division of Solid Waste Management  
Customs House, Fourth Floor  
701 Broadway  
Nashville, Tennessee 37247-3530

Also, complete this form when terminating business.  
For technical assistance, call 1 (800) 257-7018 in Tennessee only.

2. Dot Shipping Name / Waste name	EPA Waste codes	Amount Onsite Begin of Year (kg)	Amount Received (kg)	Amount Treated/Disposed/Ship (kg)	Amount Onsite End of Year (kg)	Treatment/Disposed Handling Codes
a. Compressed Gas Non-flammable, NOS/ Waste Compressed Gas Non-flammable NOS (132)	D002, D003	0	13	0	13	
b. Hazardous Waste Solid, NOS/ TSCA and IWS Sludge (133)	F001, F002, F003, F006, F008, D008	82,323	19,749	0	102,072	
c. Hazardous Waste Solid, NOS/ Laundry Sludge (134)	D008, D007	32,875	2,318	0	35,193	
d. Hazardous Waste Solid, NOS/ Cadmium Coated Cylinders (135)	D006	140	0	0	140	
e. Hazardous Waste Liquid, NOS/ Resulting Waste From Treatment of Stored Formal Waste Stream (136)	F002, D008	57,821	0	0	57,821	
f. Waste ORM-A, NOS/ Waste ORM-A (Lab Packs) (137)	U00MX, F003, D007	131	257	144	244	Shipped
g. Waste Flammable liquid, NOS/ Flammable Liquids (Bulk) (138)	D001, D002, D0MX	0	14,083	772	13,311	Shipped
h. Waste Combustible liquid, NOS/ Combustible Liquids (Bulk) (139)	D001	0	728	0	728	
i. Hazardous Waste Solid, NOS/ Hazardous Waste Solid (Lab Packs) (140)	P0MX, U0MX, D0MX	103	410	148	365	Shipped

3. Certification: I certify that the above information is true, accurate and complete. (Sign by ISR owner/operator and give title and date.)

1990 Summary Report for TSDR Facilities

(For all permitted or interim status facilities)

Page 7 of 10

EPA ID: TN0 89-009-0004

UNITED STATES DEPT. OF ENERGY K-25 SITE  
 Attn: M-G-SMITH L.E. Hall  
 PO BOX 2003  
 OAK RIDGE, TN 37831-7468 7134

Please complete and return this form to following address:

Tennessee Department of Health and Environment  
 Division of Solid Waste Management  
 Customs House, Fourth Floor  
 701 Broadway  
 Nashville, Tennessee 37247-3530

Also, complete this form when terminating business.  
 For technical assistance, call 1 (800) 237-7018 in Tennessee only.

2. Dot Shipping Name / Waste name	EPA Waste codes	Amount Onsite Begin of Year (kg)	Amount Received (kg)	Amount Treated/Disposed (kg)	Amount Onsite End of Year (kg)	Treatment/Disposed Handling Codes
a. Waste ORM-A, NOS/Waste ORM-A (Bulk) (141)	F002	143	0	143	0	Shipped
b. Waste Corrosive Liquid, NOS/Corrosive Liquids(Bulk) (142)	D001, D002, D007, D004	205	20,537	8,258	12,484	Shipped; T31,T23,T40
c. Waste ORM-B, NOS/Waste ORM-B (Lab Packs) (143)	D006	7	0	7	0	Shipped
d. Hazardous Waste Solid, NOS/Y1	D007	104,324	0	0	104,324	
e. Hazardous Waste Solid, NOS/Y2	F001	1,145	0	0	1,145	
f. Waste Tetrachloroethylene/Y3	F001	28,582	0	14,188	14,394	T07
g. Hazardous Waste Solid, NOS/Y4	F006, F007, D006, D007, D009	216,620	168,450	0	385,070	
h. Hazardous Waste Solid, NOS/Y5	F006, D007	7,206	14,789	0	21,995	
i. Hazardous Waste Solid, NOS/Y6	D008, D009, F002	11,273	0	0	11,273	

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**1990 Summary Report for TSDR Facilities**  
(For all permitted or interim status facilities)

EPA ID: TNO 89-009-0004

UNITED STATES DEPT. OF ENERGY K-25 SITE  
Attn: M-C SMITH- L.E. Hall  
PO BOX 2003  
OAK RIDGE, TN 37831-7468 7134

Please complete and return this form to following address:

Tennessee Department of Health and Environment  
Division of Solid Waste Management  
Customs House, Fourth Floor  
701 Broadway  
Nashville, Tennessee 37247-3530

Also, complete this form when terminating business.  
For technical assistance, call 1 (800) 237-7018 in Tennessee only.

2. Dot Shipping Name / Waste name	EPA Waste codes	Amount Onsite Begin of Year (kg)	Amount Received (kg)	Amount Treated/Disposed/Ship (kg)	Amount Onsite End of Year (kg)	Treatment/Disposed Handling Codes
a. Hazardous Waste Substance, NOS / Y7	D007, D008, D009	2,455	0	0	2,455	
b. Hazardous Waste Solids, NOS / Y8	D006, D007, D008, D009, F002	3,455	0	0	3,455	
c. Hazardous Waste Solid, NOS / Y9	D004, D005, D006, D007, D008, D009, D011	28,402	0	0	28,402	
d. Waste Acetonitrile / Y10	D001	90,486	12,045	0	102,531	
e. Hazardous Waste Liquid, NOS / Y11	D001, F001	1,698	0	0	1,698	
f. Hazardous Waste Solid, NOS / Y12	F001, F002	7,955	0	0	7,955	
g. Hazardous Waste Solid, NOS / Y13	F001, F002, F003	682	0	0	682	
h. Waste Flammable Liquid, NOS / Y14	D001	16,000	0	0	16,000	
i. Hazardous Waste Solid, NOS / Y15	D001	1,564	0	83	1,481	T07

3. Certification: I certify that the above information is true, accurate and complete. (Sign by ISR owner/operator and give title and date.)

**1990 Summary Report for TSDR Facilities**  
 (For all permitted or interim status facilities)

EPA ID: TN0 89-009-0004

UNITED STATES DEPT. OF ENERGY K-25 SITE  
 Attn: M-G-SMITH L.E. Hall  
 PO BOX 2003  
 OAK RIDGE, TN 37831-7460 7134

Please complete and return this form to following address:

Tennessee Department of Health and Environment  
 Division of Solid Waste Management  
 Customs House, Fourth Floor  
 701 Broadway  
 Nashville, Tennessee 37247-3530

Also, complete this form when terminating business.  
 For technical assistance, call 1 (800) 237-7018 in Tennessee only.

2. Dot Shipping Name / Waste name	EPA Waste codes	Amount Onsite Begin of Year (kg)	Amount Received (kg)	Amount Treat/Disposed/Ship (kg)	Amount Onsite End of Year (kg)	Treatment/Disposed Handling Codes
a. Hazardous Waste Solid, NOS/ Y16	F001, D001	2,114	0	0	2,114	
b. Hazardous Waste Solid, NOS/ Y17	D006	7,455	0	0	7,455	
c. Waste Mercury Metallic/ Y18	D009	9,250	239,093	0	248,343	
d. Hazardous Waste Solid, NOS/ Y19	D008	49,091	0	0	49,091	
e. Hazardous Waste Solid, NOS/ Y20	F002	0	1,391	0	1,391	
f. Waste Trichloroethylene/ P1	F001	5,494	0	0	5,494	
g. Waste 1,1,1-Trichloroethane/ P2	F001	3,465	0	0	3,465	
h. Hazardous Waste Liquid, NOS/ P3	F002	2,891	0	0	2,891	
i. Hazardous Waste Liquid, NOS/ P4	D008	8,681	0	0	8,681	

3. Certification: I certify that the above information is true, accurate and complete. (Sign by ISUR owner/operator and give TITLE and date.)

1990 Summary Report for TSDR Facilities

(For all permitted or interim status facilities)

Page 10 of 10

Please complete and return this form to following address:  
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 Division of Solid Waste Management  
 Customs House, Fourth Floor  
 701 Broadway  
 Nashville, Tennessee 37247-3530

Also, complete this form when terminating business.  
 For technical assistance, call 1 (800) 237-7018 in Tennessee only.

EPA ID: TNO 89-009-0004

UNITED STATES DEPT. OF ENERGY K-25 SITE  
 Attn: M-G-SMITH L.E. Hall  
 PO BOX 2003  
 OAK RIDGE, TN 37831-7468 7134

2. Dot Shipping Name / Waste name	EPA Waste codes	Amount Onsite Begin of Year (kg)	Amount Received (kg)	Amount Treat/Disposed/Ship (kg)	Amount Onsite End of Year (kg)	Treatment/Disposed Handling Codes
a. Hazardous Waste Solid, NOS/ P5	D008	7,845	0	0	7,845	
b. Hazardous Waste Liquid, NOS/ P6	D006, D008.	4,732	0	0	4,732	
c. Waste Radioactive Material, NOS / RI	D008	18,558	5,285	0	23,843	
d. Waste Radioactive Material, NOS / RA	F001	0	1,245	0	1,245	
e. Hazardous Waste Liquid, NOS/ F1	F002, D008	97,796	0	17,922	79,067 <sup>a</sup>	
f. Waste Hazardous Substance, Liquid, NOS / XI	D002, D007, D009	440	0	0	440	
g.						
h.						
i.						

3. Certification: I certify that the above information is true, accurate and complete. (Sign by ISR owner/operator and give title and date.)

<sup>a</sup> The difference is due to the weight of drums which were not incinerated. The emptied drums were considered non hazardous in accordance with Rule 1200-1-11-.02(1)(g).

Date: 02/91

SECTION F

Date: 02/91

UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE  
1990 WASTE STREAM REPORT

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
- 2. Waste name: K-1420 NITRIC ACID  
Waste stream ID: 6
- 3. Give years waste generated 1944: 1944  
Date stopped: /00/00  
Frequency of generation: VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes) (SIC)  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: BC (D002D008) (2819)
- 5. Physical form (% Solid)(% Water)(Lb./gal.) (Chlorine PPM) (BTU/lb.)  
LIQUID, WATER BASED (0) (12.000) (0) (0)
- 6. Generation rates in kilograms.  
Monthly maximum (Annual average) (Max. amount stored) (Max. days stored)  
8,850 ~~10,000~~ 2,950 ~~10,000~~ 8,850 90
- 7. DOT shipping name: NOT TRANSPORTED OFF-SITE. #  
DOT hazard class: O R M - E  
DOT ID code: #
- 8. Describe generation process.  
WASTE GENERATED FROM ELECTROLESS PLATING OPERATIONS. THIS IS A MIXED WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	8,850	0	0

Amount Handled by site: A OFFSITE, B ONSITE: 8,850 kg, C ONSITE, D ONSITE

TSDf handling/Waste management methods: (N), (Y) Sol

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product ( )
  - b. In process recycling ( )
  - c. Equipment/technology modification ( )
  - d. Substituting raw materials ( )
  - e. Improved operations ( )
  - f. No effort (X)
- g. Other - explain below: ( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a ( )
  - b. less toxic-b ( )
  - c. No change-c (X) ( Amt of Reduction (kg) )

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
K-1420 NITRIC ACID

Waste stream ID  
6

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM. % VOLUME
- pH | Flash point | Reactive code |
- <2.5
- Major and hazardous constituents. | lower | upper
- A NITRIC ACID | 50 %V | 55 %V |
- B WATER | 45 %V | 50 %V |
- C LEAD | 6.1PPM | 6.1PPM |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

Date rcvd	Complete?		Test results?		Reasonable?		Follow-up		Initials
	Yes	No	Yes	No	Yes	No	Yes	No	

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
 Small generator (3); Resource recovery (4); R Y  
 Partial exemption (5); Hazardous (6);  
 Accidental (7); No longer generated (8); Variance granted (9); Condi-  
 tionally exempt (A); Mixed radiological wastse (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
- 2. Waste name: ELECTROLESS NICKEL SOLUTION  
Waste stream ID: 8
- 3. Give years waste generated: 1944-  
Date stopped: /00/00  
Frequency of generation: VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes: SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f) (f)  
CODES: BC  
IDOC2E007D009 : 2819  
F006
- 5. Physical form: LIQUID, WATER BASED  
% Solid: .01  
% Water: .01  
Lb./gal.: 10.000  
Chlorine PPM: .0  
BTU/lb.: .0
- 6. Generation rates in kilograms.  
Monthly maximum: ~~4,798~~ 277  
Annual average: ~~4,798~~ 277  
Max. amount stored: 500  
Max. days stored: 90
- 7. DOT shipping name: #HAZARDOUS WASTE LIQUID, NOS  
DOT hazard class: O R M - E  
DOT ID code: 9189

8. Describe generation process.  
USED TO NICKEL PLATE PARTS. THIS IS A MIXED WASTE

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

  

Amount Handled by site	TSDF handling/Waste management methods
A : OFFSITE:	IN:
B : ONSITE:	Y:
C : ONSITE:	Y:
D : ONSITE:	Y:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a ( )
  - b. In process recycling. b ( )
  - c. Equipment/technology modification c ( )
  - d. Substituting raw materials d ( )
  - e. Improved operations. e ( )
  - f. No effort. f (X)
  - g. Other - explain below: g ( )

- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a ( )
  - b. less toxic-b ( )
  - c. No change-c (X) ; Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
ELECTROLESS NICKEL SOLUTION

Waste stream ID  
8

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM. % VOLUME

pH	Flash point	Reactive code							
<2									
Major and hazardous constituents.									
A NITRIC ACID							lower	upper	
B WATER							53 % Vol.	53 % Vol.	
C CHROMIUM							47 % Vol.	47 % Vol.	
							0 ppm	5.1 ppm	

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd	Complete?	Test results?	Reasonable?	Follow-up	Initials
	Yes No	Yes No	Yes No	Yes No	

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
 Small generator (3); Resource recovery (4); R Y  
 Partial exemption (5); Hazardous (6);  
 Accidental (7); No longer generated (8); Variance granted (9); Condi-  
 tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE EPA ID CODE  
TNO 89-009-0004
- 2. Waste name. K-1401 HYDROCHLORIC ACID AND RINSE WATERS Waste stream ID  
10
- 3. Give years waste generated 1944- : Date stopped /00/00 : Frequency of generation VARIOUS
- 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f).  
EPA waste codes : SIC  
CODES: B,C : D002D007 : 2819
- 5. Physical form LIQUID, WATER BASED : % Solid: .01 : % Water: 10.000 : Chlorine PPM : .0 : BTU/lb. : .0
- 6. Generation rates in kilograms.  
Monthly maximum : Annual average : Max. amount stored : Max. days stored  
32,818 ~~75,337~~ 32,818 ~~75,337~~ 32,818 90
- 7. DOT shipping name HAZARDOUS WASTE LIQUID, NOS : DOT hazard class CORROSIVE : DOT ID code 9189
- 8. Describe generation process. METAL CLEANING PROCESS. WASTE GENERATED DURING METALS CLEANING OPERATION. THIS IS A MIXED WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

Amount Handled by site : TSDf handling/Waste management methods

A : OFFSITE: [N]  
 B : ONSITE: [Y]  
 C : ONSITE: [Y]  
 D : ONSITE: [Y]

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a( )
  - b. In process recycling. . . . . b( )
  - c. Equipment/technology modification c( )
  - d. Substituting raw materials d( )
  - e. Improved operations. . . . . e( )
  - f. No effort. . . . . f( )
- g. Other - explain below: . . . . . g(X)  
 Process suspended pending evaluation of nonhazardous alternatives.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ) : Amt of Reduction : 66,386 (kg) from 1989 or an average annual reduction of 32,818 kg

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
K-1401 HYDROCHLORIC ACID AND RINSE WATERS

Waste stream ID  
10

12. Chemical Characteristics. Concentration units. For EP toxic wastes, indicate PPM.  
pH : Flash point: Reactive code :  
<2.5

Major and hazardous constituents.

	lower	upper
A HYDROCHLORIC ACID	26VOL	38VOL
B IODINE	40VOL	50VOL
C WATER	20VOL	25VOL
D FORMALDEHYDE	6VOL	10VOL
E CHROMIUM	10PPM	20PPM

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.

SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); R Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
- 2. Waste name: K-1401 ALKALI  
Waste stream ID: 11
- 3. Give years waste generated 1944- : Date stopped : Frequency of generation  
/00/00 : VARIOUS
- 4. Mark all appropriate hazard criteria below. EPA waste codes : SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: B, C : E002E007D008 : 2819

- 5. Physical form : % Solid : % Water : Lb./gal. : Chlorine PPM : BTU/lb.  
LIQUID, WATER BASED : .01 : 10.000 : .0 : .0

- 6. Generation rates in kilograms.  
Monthly maximum : Annual average : Max. amount stored : Max. days stored  
24,261 ~~51,237~~ : 24,261 ~~51,237~~ : 24,261 : 90

- 7. DOT shipping name : DOT hazard class : DOT ID code  
~~NOT TRANSPORTED OFF SITE. #~~  
Hazardous Waste Liquid, NOS : CORROSIVE : #9189

- 8. Describe generation process.  
METAL CLEANING PROCESS. WASTE GENERATED DURING METALS CLEANING  
OPERATION. THIS IS A MIXED WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

Amount Handled by site	TSDF handling/Waste management methods
A : OFFSITE:	IN:
B : ONSITE:	Y:
C : ONSITE:	Y:
D : ONSITE:	Y:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a ( )
  - b. In process recycling b ( )
  - c. Equipment/technology modification c ( )
  - d. Substituting raw materials d ( )
  - e. Improved operations e ( )
  - f. No effort f ( )

g. Other - explain below: g(X)  
Process suspended pending evaluation of nonhazardous alternatives.

- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a ( )
  - b. less toxic-b ( )
  - c. No change-c ( )
  - d. Amt of Reduction : 32,318 (kg)  
from 1989 or an average annual reduction of 24,261 kg

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
K-1401 ALKALI

Waste stream ID  
11

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents.

- A SODIUM HYDROXIDE
- B WATER
- C CHROMIUM
- D LEAD

: lower	: upper
30V %	40V %
60V %	70V %
4 PPM	6 PPM
60PPM	70 PPM

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd	Complete?	Test results?	Reasonable?	Follow-up	Initials
	: Yes No	: Yes No	: Yes No	: Yes No	

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
 Small generator (3); Resource recovery (4); R Y  
 Partial exemption (5); Hazardous (6);  
 Accidental (7); No longer generated (8); Variance granted (9); Condi-  
 tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE ; EPA ID CODE TNO 89-009-0004
2. Waste name: K-1501 HYDROGEN SOFTENER BLOWDOWN ; Waste stream ID 12
3. Give years waste generated 1944- ; Date stopped /00/00 ; Frequency of generation VARIOUS
4. Mark all appropriate hazard criteria below. (EPA waste codes ; SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES: C ; D002 ; 2819
5. Physical form ; % Solid ; % Water ; Lb./gal. ; Chlorine PPM ; BTU/lb. LIQUID, WATER BASED ; 0 ; 8.000 ; 0 ; 0
6. Generation rates in kilograms. Monthly maximum ; Annual average ; Max. amount stored ; Max. days stored 700,000 ; 8,420,000 ; 0 ; 0
7. DOT shipping name: HAZARDOUS WASTE LIQUID, NCS ; DOT hazard class: CORROSIVE Material ; DOT ID code: 9189-1760  
Waste Corrosive
8. Describe generation process. WASTE GENERATED FROM A ZEOLITE BACKWASH SOLUTION FOR WATER SOFTENING AT THE STEAM PLANT. THIS IS A PURE WASTE.
- \*\* ANNUAL REPORT SECTION \*\* LINES 9-11
9. Report ; Amount generated ; Amount on site on ; Amount on site on  
Year ; during year (kg) ; first day (kg) ; last day (kg)  
1990 ; 8,420,000 ; 0 ; 0  
Amount Handled by site ; TSDF handling/Waste management methods  
A : OFFSITE ; N :  
B : ONSITE: 8,420,000 kg ; Y : T31, T23  
C : ONSITE ; Y :  
D : ONSITE ; Y :
10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.  
a. Reformulation/redesign of product a ( ) d. Substituting raw materials d ( )  
b. In process recycling. b ( ) e. Improved operations. e ( )  
c. Equipment/technology modification c ( ) f. No effort. f (X)
- g. Other - explain below: g ( )
11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.  
a. more toxic-a ( ) b. less toxic-b ( ) c. No change-c (X) ; Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
K-1501 HYDROGEN SOFTENER BLOWDOWN

Waste stream ID  
12

12. Chemical Characteristics. : Concentration units. For EP toxic wastes, indicate PPM.  
pH : Flash point: Reactive code : % VOLUME  
0.8

Major and hazardous constituents. : lower : upper :  
A WATER : 98 : 99 :  
B SULFURIC ACID : 1 : 2 :

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE TNO 89-009-0004
- 2. Waste name. SODIUM METAL  
Waste stream ID 20
- 3. Give years waste generated 1983-  
Date stopped /00/00  
Frequency of generation VARIOUS

- 4. Mark all appropriate hazard criteria below. (a) EP toxic (b), Corrosive (c),  
Ignitable (a), Reactive (e), Other toxic (f)  
EPA waste codes : SIC  
CODES: E ID003D001D002 : 2819
- 5. Physical form :% Solid:% Water:Lb./gal. : Chlorine PPM : BTU/lb.  
OTHER SOLID : 100.0: : 8.000 : .0 : .0
- 6. Generation rates in kilograms.  
Monthly maximum : Annual average : Max. amount stored : Max. days stored  
15 15 15 90

- 7. DOT shipping name WASTE, SODIUM, METAL  
DOT hazard class : DOT ID code  
FLAMMABLE SOLID 1428
- 8. Describe generation process.  
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT  
NORMALLY GENERATED OR STORED AT K-25 SITE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

Amount Handled by site : TSDf handling/Waste management methods

A : OFFSITE: IN:  
 B : ONSITE: Y:  
 C : ONSITE: Y:  
 D : ONSITE: Y:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a( )
  - b. In process recycling. . . . . b( )
  - c. Equipment/technology modification c( )
  - d. Substituting raw materials d( )
  - e. Improved operations. . . . . e( )
  - f. No effort. . . . . f(X)
- g. Other - explain below: . . . . . g( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c(X) : Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
SODIUM METAL

Waste stream ID  
20

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.  
% WEIGHT

Major and hazardous constituents. : lower : upper  
A SODIUM METAL : 100 : 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE  
TNO 89-009-0004
2. Waste name.  
Y-12 RETURNED WASTE  
Waste stream ID  
21
3. Give years waste generated 1984- : Date stopped /00/00 : Frequency of generation  
VARIOUS
4. Mark all appropriate hazard criteria below. EPA waste codes : SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: BF : F002D0G6D007 : 2819  
DO08D0G9D002
5. Physical form (% Solid, % Water, Lb./gal., Chlorine PPM, BTU/lb.)  
LIQUID, WATER BASED : 5.0 : 8.500 : .0 : .0
6. Generation rates in kilograms.  
Monthly maximum : Annual average : Max. amount stored : Max. days stored  
200,000 : ~~2,461,136~~ : 58,909 : 90-5
7. DOT shipping name : DOT hazard class : DOT ID code  
HAZARDOUS WASTE LIQUIDS N. O. S. : O R M - E : 9189
8. Describe generation process.  
WASTE STREAM GENERATED FROM TREATMENT OF DOE Y-12 SITE WASTE. THIS IS A  
MIXED WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

Amount Handled by site	TSDF handling/Waste management methods
A : OFFSITE:	[N]
B : ONSITE:	[Y]
C : ONSITE:	[Y]
D : ONSITE:	[Y]

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
 

a. Reformulation/redesign of product	a ( )	d. Substituting raw materials	d ( )
b. In process recycling	b ( )	e. Improved operations	e ( )
c. Equipment/technology modification	c ( )	f. No effort	f (X)
- g. Other - explain below: g ( )
11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
 

a. more toxic-a ( )	b. less toxic-b ( )	c. No change-c (X)	! Amt of Reduction (kg)
---------------------	---------------------	--------------------	-------------------------

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
Y-12 RETURNED WASTE

Waste stream ID  
21

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.  
6.0- : PPM

Major and hazardous constituents.

	lower	upper
A CHROMIUM	0	9100
B LEAD	0	17
C CADMIUM	0	32
D WATER	90VOL%	95VOL%
E MERCURY	0	4

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd	Complete?		Test results?		Reasonable?		Follow-up		Initials
	Yes	No	Yes	No	Yes	No	Yes	No	

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
 Small generator (3); Resource recovery (4); R Y  
 Partial exemption (5); Hazardous (6);  
 Accidental (7); No longer generated (8); Variance granted (9); Condi-  
 tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE ; EPA ID CODE TNO 89-009-0004
- 2. Waste name: Y-12 BASES RETURNED ; Waste stream ID 22
- 3. Give years waste generated: 1984- ; Date stopped: /00/00 ; Frequency of generation: VARIOUS
- 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f). EPA waste codes: ; SIC: ; CODES: BCF ; DOC2D007D009 ; 2819 ; F002
- 5. Physical form: LIQUID, WATER BASED ; % Solid: 10.0 ; % Water: ; Lb./gal.: 8.400 ; Chlorine PPM: .0 ; BTU/lb.: .0
- 6. Generation rates in kilograms. Monthly maximum: 74,330 ; Annual average: 0 ; Max. amount stored: 74,330 ; Max. days stored: 10
- 7. DOT shipping name: WASTE ALKALINE, LIQUID, NGS ; DOT hazard class: CORROSIVE ; DOT ID code: 1719
- 8. Describe generation process. WASTE STREAM GENERATED FROM TREATMENT OF DOE Y-12 SITE WASTE ^ THIS IS A MIXED WASTE. ^

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

Amount Handled by site	TSDF handling/Waste management methods
A : OFFSITE:	IN:
B : ONSITE:	Y:
C : ONSITE:	Y:
D : ONSITE:	Y:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a( )
  - b. In process recycling b( )
  - c. Equipment/technology modification c( )
  - d. Substituting raw materials d( )
  - e. Improved operations e( )
  - f. No effort f(X)
  - g. Other - explain below: g( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c(X) ; Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
Y-12 BASES RETURNED

Waste stream ID  
22

12. Chemical Characteristics. : Concentration units. For EP toxic wastes, indicate PPM.  
pH : Flash point: Reactive code : PPM  
<10

Major and hazardous constituents.  
A SPENT HALOGENATED SOLVENTS

: lower : upper  
2Vol.% 40Vol.%  
0PPM 910PPM  
0PPM 2.7PPM  
60Vol.% 98Vol.%

B CHROMIUM  
C MERCURY  
D WATER

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
2. Waste name: K-1401 DIVERSEY  
Waste stream ID: 26
3. Give years waste generated 1944- : Date stopped 100/00 : Frequency of generation VARIOUS
4. Mark all appropriate hazard criteria below. (EPA waste codes : SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: C ID002D0G6D007 : 2819

5. Physical form : % Solid : % Water : Lb./gal. : Chlorine PPM : BTU/lb.  
LIQUID, WATER BASED : 0 : 8.000 : 0 : 0

6. Generation rates in kilograms.  
Monthly maximum : Annual average : Max. amount stored : Max. days stored  
2,791 : 64 ~~2,791~~ : 2,791 : 90

7. DOT shipping name : DOT hazard class : DOT ID code  
WASTE CORROSIVE LIQUID, NOS : CORROSIVE : 1760

8. Describe generation process.  
WASTE GENERATED DURING METALS CLEANING OPERATION. ^THIS IS AMIXED WASTE.^

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

Amount Handled by site	TSDf handling/Waste management methods
A : OFFSITE:	IN
B : ONSITE:	Y
C : ONSITE:	Y
D : ONSITE:	Y

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
 

a. Reformulation/redesign of product	a ( )	d. Substituting raw materials	d ( )
b. In process recycling	b ( )	e. Improved operations	e ( )
c. Equipment/technology modification	c ( )	f. No effort	f (X)
- g. Other - explain below: g ( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
 

a. more toxic-a ( )	b. less toxic-b ( )	c. No change-c (X)	: Amt of Reduction (kg)
---------------------	---------------------	--------------------	-------------------------

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
K-1401 DIVERSEY

Waste stream ID  
26

12. Chemical Characteristics. : Concentration units. For EP toxic wastes, indicate PPM.  
pH : Flash point: Reactive code : % VOLUME  
<2.5

Major and hazardous constituents. : lower : upper  
A SODIUM BISULFATE : 20V : 30V  
B WATER : 70V : 80V

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.  
17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No  
Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); R Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
- 2. Waste name: FLAMMABLE LIQUIDS (Lab Packs)  
Waste stream ID: 35
- 3. Give years waste generated 1944-  
Date stopped: ~~12/31/84~~ 00/00/00  
Frequency of generation: VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes) SIC  
Ignitable (a), EP toxic (b), Corrosive (c)   
Reactive (e), Other toxic (f)   
CODES: A ; DOMXFOMXUOMX ; 2819

- 5. Physical form (% Solid) (% Water) (Lb./gal.) Chlorine PPM BTU/lb.  
LIQUID, OTHER BASED : 0 : 8.000 : 0 : 0

- 6. Generation rates in kilograms.  
Monthly maximum : Annual average : Max. amount stored : Max. days stored  
1,325 ~~1,083~~ 1,325 ~~1,083~~ 1,083 90  
1,325

- 7. DOT shipping name: WASTE FLAMMABLE LIQUIDS, N.O.S.  
DOT hazard class: FLAMMABLE LIQUID  
DOT ID code: 1993

- 8. Describe generation process.  
LAB PACKS ARE MADE UP OF SMALL QUANTITIES OF VARIOUS FLAMMABLE LIQUIDS  
GENERATED DURING PLANT OPERATIONS. THIS IS A PURE WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	725	0	1

  

Amount Handled by site	TSDf handling/Waste management methods
A : OFFSITE: 463 kg	IN: T07
B : ONSITE: 231 kg	Y: S01, T07
C : ONSITE: 30 kg	Y: S01
D : ONSITE:	Y:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a ( )
  - b. In process recycling b ( )
  - c. Equipment/technology modification c ( )
  - d. Substituting raw materials d ( )
  - e. Improved operations e ( )
  - f. No effort f (X)
- g. Other - explain below: g ( )

- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

- a. more toxic-a ( ) b. less toxic-b ( ) c. No change-c (X) ; Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
FLAMMABLE LIQUIDS (Lab Packs)

Waste stream ID  
35

12. Chemical Characteristics. Concentration units. For EP toxic wastes, indicate PPM.  
pH : Flash point: Reactive code :  
<140

Major and hazardous constituents. lower : upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
- Waste name: CORROSIVE LIQUIDS (Lab Packs)  
Waste stream ID: 36
- Give years waste generated: 1986-  
Date stopped: ~~12/31/86~~ 02/00/00  
Frequency of generation: VARIOUS
- Mark all appropriate hazard criteria below. EPA waste codes: U134, DOMX  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)   
CODES: C ~~1002D003D007e~~ SIC: 2819
- Physical form: LIQUID, WATER BASED  
% Solid: 0 | % Water: 100 | Chlorine PPM: 0 | BTU/lb.: 0
- Generation rates in kilograms:  
Monthly maximum: 2,748 ~~2,546~~ | Annual average: 2,748 ~~2,546~~ | Max. amount stored: 2,748 ~~2,546~~ | Max. days stored: 90
- DOT shipping name: WASTE CORROSIVE LIQUIDS, N. D. S.  
DOT hazard class: CORROSIVE | DOT ID code: 1760
- Describe generation process:  
LAB PACKS ARE MADE UP OF SMALL QUANTITIES OF CORROSIVE MATERIALS GENERATED DURING PLANT OPERATIONS.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	606	0	0

Amount Handled by site | TSDf handling/Waste management methods

A : OFFSITE: 120 kg	IN: T07
B : ONSITE: 65 kg	Y: S01, T07
C : ONSITE: 421 kg	Y: S01
D : ONSITE:	Y:

- Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - Reformulation/redesign of product a ( )
  - In process recycling b ( )
  - Equipment/technology modification c ( )
  - Substituting raw materials d ( )
  - Improved operations e ( )
  - No effort f
- Other - explain below: g ( )
- Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - more toxic-a ( )
  - less toxic-b ( )
  - No change-c  | Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
CORROSIVE LIQUIDS (Lab Packs)

Waste stream ID  
36

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

>12.5

Major and hazardous constituents.  
A LABORATORY AND PROCESS CHEMICALS

% Volume

: lower : upper  
0 100 :

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
2. Waste name: CORROSIVE SOLID LAB PACKS  
Waste stream ID: 37
3. Give years waste generated 1944-  
Date stopped: ~~12/31/84~~ 00/00/00  
Frequency of generation: VARIOUS
4. Mark all appropriate hazard criteria below. (EPA waste codes) SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: C ID002D006D008 2819  
D003
5. Physical form: GRANULAR SOLID  
% Solid: 100.01  
% Water: 0  
Lb./gal: 10.000  
Chlorine PPM: 0  
BTU/lb.: 0
6. Generation rates in kilograms.  
Monthly maximum: 208 ~~206~~  
Annual average: 208 ~~206~~  
Max. amount stored: 208 ~~206~~  
Max. days stored: 90
7. DOT shipping name: WASTE CORROSIVE SOLIDS, N.O.S.  
DOT hazard class: CORROSIVE  
DOT ID code: 1759
8. Describe generation process.  
LAB PACKS ARE MADE UP OF SMALL QUANTITIES OF VARIOUS CORROSIVE SOLIDS GENERATED DURING PLANT OPERATIONS. THIS IS A PUREWASTE.
- \*\* ANNUAL REPORT SECTION \*\* LINES 9-11
9. Report  

Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	6	0	0

  

Amount Handled by site	TSDF handling/Waste management methods
A : OFFSITE: 5 kg	IN: T07
B : ONSITE: 1 kg	Y: S01
C : ONSITE:	Y:
D : ONSITE:	Y:
10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a ( )
  - b. In process recycling. b ( )
  - c. Equipment/technology modification c ( )
  - d. Substituting raw materials d ( )
  - e. Improved operations. e ( )
  - f. No effort. f (X)
- g. Other - explain below: g ( )
11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a ( )
  - b. less toxic-b ( )
  - c. No change-c (X) Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
CORROSIVE SOLID LAB PACKS

Waste stream ID  
37

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

>12.5

Major and hazardous constituents.

% Weight

A SODIUM HYDROXIDE

B SODIUM B1 FLUORIDE

: lower : upper  
0 100 :  
0 100 :

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE TNO 89-009-0004
- 2. Waste name. POISONOUS LIQUIDS (Lab Packs)  
Waste stream ID 38
- 3. Give years waste generated 1944 ; Date stopped ~~12/31/86~~ 00/00/00 ; Frequency of generation VARIOUS
- 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f).  
EPA waste codes : SIC : UOMXPOMXDOMX : 2819  
CODES: F
- 5. Physical form : % Solid : % Water : Lb./gal. : Chlorine PPM : BTU/lb.  
LIQUID, OTHER BASED : 10.0 : 8.000 : .0 : .0
- 6. Generation rates in kilograms.  
Monthly maximum : Annual average : Max. amount stored : Max. days stored  
26 2\* 26 2\* 26 2\* 90
- 7. DOT shipping name WASTE POISONOUS LIQUIDS, N.O.S. ; DOT hazard class POISON B ; DOT ID code UN2810
- 8. Describe generation process. LABORATORY CHEMICAL OR PROCESS CHEMICALS- SMALL QUANTITIES OF VARIOUS POISONOUS LIQUIDS GENERATED DURING PLANT OPERATION THIS IS A PURE WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	5	0	0

Amount Handled by site	TSDF handling/Waste management methods
A : OFFSITE: 5 kg	IN: T07, T39, DB1
B : ONSITE:	Y:
C : ONSITE:	Y:
D : ONSITE:	Y:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a ( )
  - b. In process recycling b ( )
  - c. Equipment/technology modification c ( )
  - d. Substituting raw materials d ( )
  - e. Improved operations e ( )
  - f. No effort. f (X)
- g. Other - explain below: g ( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a ( )
  - b. less toxic-b ( )
  - c. No change-c (X) ; Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
POISONOUS LIQUIDS (Lab Packs)

Waste stream ID  
38

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents.

	% Volume	lower	upper
A SODIUM CYANIDE		0	100
B POTASSIUM CYANIDE		0	100
C COPPER SULFATE		0	100
D VARIOUS LABORATORY CHEMICALS		0	100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

Date rcvd	Complete?		Test results?		Reasonable?		Follow-up		Initials
	Yes	No	Yes	No	Yes	No	Yes	No	

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
 Small generator (3); Resource recovery (4); 6 Y  
 Partial exemption (5); Hazardous (6);  
 Accidental (7); No longer generated (8); Variance granted (9); Condi-  
 tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
 EPA ID CODE: TNO 89-009-0004

2. Waste name: POISONOUS SOLIDS LAB PACK  
 Waste stream ID: 39

3. Give years waste generated: 1944-  
 Date stopped: ~~12/31/86~~ 00/00/00  
 Frequency of generation: VARIOUS

4. Mark all appropriate hazard criteria below. (EPA waste codes) (SIC)  
 Ignitable (a), EP toxic (b), Corrosive (c),  
 Reactive (e), Other toxic (f)  
 CODES: F (UOMXDOMXPOMX) : 2819

5. Physical form: OTHER SOLID  
 % Solid: 100%  
 % Water: 0%  
 Lb./gal.: 8,000  
 Chlorine PPM: 0  
 BTU/lb.: 0

6. Generation rates in kilograms.  
 Monthly maximum: 183 ~~181~~  
 Annual average: 183 ~~181~~  
 Max. amount stored: 183 ~~181~~  
 Max. days stored: 90

7. DOT shipping name: WASTE POISONOUS SOLIDS, N.O.S.  
 DOT hazard class: POISON B  
 DOT ID code: UN2811

8. Describe generation process.  
 LABORATORY OR PROCESS CHEMICALS--SMALL QUANTITIES OF VARIOUS POISONOUS SOLIDS GENERATED DURING PLANT OPERATIONS. THIS IS A PURE WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	5	0	0

Amount Handled by site	TSDF handling/Waste management methods
A : OFFSITE: 2 kg	IN: T07, T39, D81
B : ONSITE: 3 kg	Y: S01
C : ONSITE:	Y:
D : ONSITE:	Y:

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product	a( )	d. Substituting raw materials	d( )
b. In process recycling	b( )	e. Improved operations	e( )
c. Equipment/technology modification	c( )	f. No effort	f(X)

g. Other - explain below: g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
POISONOUS SOLIDS LAB PACK

Waste stream ID  
39

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents.

A CYANIDE SOLIDS  
B MERCURIC SALTS (SOLIDS)

% Weight

: lower : upper  
0 100 :  
0 100 :

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. EPA ID CODE  
UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004
- 2. Waste name. Waste stream ID  
OXIDIZING SUBSTANCES, LIQUIDS 40
- 3. Give years waste generated : Date stopped : Frequency of generation  
1944- ~~12/31/86~~ : 00/00/00 : VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes : SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: FE : DOMXU160 : 2819
- 5. Physical form : % Solid : % Water : Lb./gal. : Chlorine PPM : BTU/lb.  
LIQUID, OTHER BASED : 0 : 8.000 : 0 : 0
- 6. Generation rates in kilograms.  
Monthly maximum : Annual average : Max. amount stored : Max. days stored  
~~264 198~~ ~~264 198~~ ~~264 198~~ 90
- 7. DOT shipping name : DOT hazard class : DOT ID code  
WASTE OXIDIZER, NOS : OXIDIZER : 1479
- 8. Describe generation process.  
LAB PACK IS MADE UP OF SMALL QUANTITIES OF VARIOUS OXIDIZING SUBSTANCES  
GENERATED DURING PLANT OPERATIONS. THIS IS A PURE WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	30	0	0

  

Amount Handled by site	TSDF handling/Waste management methods
A : OFFSITE: 8 kg	N: T07, T39, D81
B : ONSITE: 8 kg	Y: S01, T07, T39, D81
C : ONSITE: 14 kg	Y: S01
D : ONSITE:	Y:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a ( )
  - b. In process recycling b ( )
  - c. Equipment/technology modification c ( )
  - d. Substituting raw materials d ( )
  - e. Improved operations e ( )
  - f. No effort. f (X)
  - g. Other - explain below: g ( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a ( )
  - b. less toxic-b ( )
  - c. No change-c (X) : Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
OXIDIZING SUBSTANCES, LIQUIDS

Waste stream ID  
40

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents. : lower : upper  
A VARIOUS LABORATORY, PROCESS CHEMICALS : 0 : 100 :  
*% Volume*

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE TNO 89-009-0004
- 2. Waste name. HAZARDOUS WASTE LAB PACKS  
Waste stream ID 41
- 3. Give years waste generated 1944-  
Date stopped 12/31/86  
Frequency of generation 00/00/00 VARIOUS
- 4. Mark all appropriate hazard criteria below. EPA waste codes SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: F U228DOMXF003 2819
- 5. Physical form % Solid % Water Lb./gal. Chlorine PPM BTU/lb.  
LIQUID, OTHER BASED 10.0 10.000 .0 .0
- 6. Generation rates in kilograms.  
Monthly maximum 505 Annual average 505 Max. amount stored 505 Max. days stored 90
- 7. DOT shipping name HAZARDOUS WASTE LIQUID  
DOT hazard class O R M - E DOT ID code NA9189
- 8. Describe generation process.  
CHEMICALS FROM LABORATORY OR PROCESS SMALL QUANTITIES OF VARIOUS  
HAZARDOUS WASTE CHEMICALS GENERATED DURING PLANT OPERATIONS. THIS IS A  
PURE WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

Amount Handled by site

TSDF handling/Waste management methods

- A : OFFSITE: IN
- B : ONSITE: Y
- C : ONSITE: Y
- D : ONSITE: Y

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a ( )
  - b. In process recycling b ( )
  - c. Equipment/technology modification c ( )
  - d. Substituting raw materials d ( )
  - e. Improved operations e ( )
  - f. No effort. f (X)
  - g. Other - explain below: g ( )

- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

- a. more toxic-a ( ) b. less toxic-b ( ) c. No change-c (X) Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
HAZARDOUS WASTE LAB PACKS

Waste stream ID  
41

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents. % Volume : lower : upper  
Various laboratory, process chemicals 0 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE ; EPA ID CODE TNO 89-009-0004
- 2. Waste name: ~~SPENT SOLVENTS~~ Waste Oils and Waste Oils Contaminated with PCBs and/or Solvents ; Waste stream ID 42
- 3. Give years waste generated 1944- ; Date stopped /00/00 ; Frequency of generation CONTINUOUS

- 4. Mark all appropriate hazard criteria below. :EPA waste codes : SIC  
 Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)  
 CODES: AF ; F001, F002, F003, ; 2819  
 ; D001, D0MX, U0MX ;  
 5. Physical form :% Solid:% Water:Lb./gal. : Chlorine PPM : BTU/lb.  
 LIQUID, WATER BASED : 5.0 : 8.000 : 0 : 0

- 6. Generation rates in kilograms.  
 Monthly maximum : Annual average : Max. amount stored : Max. days stored  
 42,217 ~~30,686~~ 42,217 ~~30,686~~ 40,000 90

- 7. DOT shipping name : DOT hazard class : DOT ID code  
 WASTE HAZARDOUS SUBSTANCE, N. O. S. ; O R M - E ; 9189

8. Describe generation process.  
 WASTE GENERATED FROM VARIOUS DEGREASING, CLEANING, AND PAINTING OPERATIONS. THIS IS A MIXED WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	98,320	0	582

Amount Handled by site : TSDF handling/Waste management methods

A : OFFSITE :  
 B : ONSITE: 854 kg ; Y: S01, T06  
 C : ONSITE: 96,884 kg ; Y: S01-S02  
 D : ONSITE:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a ( )
  - b. In process recycling. b ( )
  - c. Equipment/technology modification c ( )
  - d. Substituting raw materials d ( )
  - e. Improved operations. e ( )
  - f. No effort. f (X)

- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a ( )
  - b. less toxic-b ( )
  - c. No change-c (X) ; Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
~~SPENT SOLVENTS~~ Waste Oils and Waste Oils Contaminated  
with PCBs and/or Solvents

Waste stream ID  
42

12. Chemical Characteristics. Concentration units. For EP toxic wastes, indicate PPM.  
pH ; Flash point; Reactive code ;  
# 200 F % VOLUME

Major and hazardous constituents.  
A HALOGENATED/NONHALOGENATED SOLVENTS  
B WATER

lower upper  
1 99 50  
1 99 50

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
; Yes No ; Yes No ; Yes No ; Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); R Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE EPA ID CODE  
TNO 89-009-0004
- 2. Waste name. PAINT WASTE Waste stream ID  
44
- 3. Give years waste generated 1944- Date stopped /00/00 Frequency of generation  
VARIOUS
- 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)  
 CODES: AB EPA waste codes : SIC  
: D001 ~~D005~~ D007 : 2819  
: D008 D009
- 5. Physical form LIQUID, OTHER BASED % Solid: 30.01 % Water: 12.000 Lb./gal. : G Chlorine PPM : .0 BTU/lb. : .0
- 6. Generation rates in kilograms.  
 Monthly maximum : Annual average : Max. amount stored : Max. days stored  
 7,732 ~~5,723~~ 7,732 ~~5,723~~ 7,732 ~~5,723~~ 90
- 7. DOT shipping name WASTE PAINT RELATED MATERIAL DOT hazard class : DOT ID code  
Flammable Liquid, NOS FLAMMABLE LIQUID ~~1263~~ 1993
- 8. Describe generation process. WASTE GENERATED FROM THE PAINT SHOPS AT THE PLANT FACILITY. THIS IS A MIXED WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	11,209	0	0

Amount Handled by site TSDF handling/Waste management methods

A : OFFSITE: IN:

B : ONSITE: 11,209 kg Y: S01

C : ONSITE: Y:

D : ONSITE: Y:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a ( )
  - b. In process recycling. b ( )
  - c. Equipment/technology modification c ( )
  - d. Substituting raw materials d ( )
  - e. Improved operations. e ( )
  - f. No effort. f (X)
- g. Other - explain below: g ( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a ( )
  - b. less toxic-b ( )
  - c. No change-c (X) Amt of Reduction (kg)



Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
 EPA ID CODE: TNO 89-009-0004

2. Waste name: URANIUM HEXAFLUORIDE  
 Waste stream ID: 47

3. Give years waste generated 1944- /00/00  
 Date stopped /00/00  
 Frequency of generation: VARIOUS

4. Mark all appropriate hazard criteria below. EPA waste codes: C  
 Ignitable (a), EP toxic (b), Corrosive (c),  
 Reactive (e), Other toxic (f)  
 CODES: C ID002 SIC: 2819

5. Physical form: GAS  
 % Solid: 0, % Water: 100, Lb./gal: 42.000, Chlorine PPM: 0, BTU/lb.: 0

6. Generation rates in kilograms.  
 Monthly maximum: 25, Annual average: 0, Max. amount stored: 25, Max. days stored: 90-365

7. DOT shipping name: WASTE URANIUM HEXAFLUORIDE LOW SPECIFIC ACTIVITY  
 DOT hazard class: CORROSIVE, DOT ID code: 2978

8. Describe generation process.  
 WASTE GENERATED FROM CONTAINERS WHICH HAVE BEEN DAMAGED. UF6 IS SPECIAL NUCLEAR AND BY-PRODUCT MATERIALS ARE EXEMPT BY AEC.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

Amount Handled by site: A: OFFSITE: (N), B: ONSITE: (Y), C: ONSITE: (Y), D: ONSITE: (Y)

TSDF handling/Waste management methods

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( ) d. Substituting raw materials d( )  
 b. In process recycling b( ) e. Improved operations e( )  
 c. Equipment/technology modification c( ) f. No effort f(X)

g. Other - explain below: g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X) Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
URANIUM HEXAFLUORIDE

Waste stream ID  
47

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

<2.5  
Major and hazardous constituents. % Volume

: lower : upper  
100V 100V :

A URANIUM HEXAFLUORIDE

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

=====

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological wastse (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE  
TNO 89-009-0004
2. Waste name.  
HALOGENATED GASES  
Waste stream ID  
49
3. Give years waste generated 1944-  
Date stopped /00/00  
Frequency of generation  
VARIOUS
4. Mark all appropriate hazard criteria below. EPA waste codes SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: CE ID002D003 2819
5. Physical form % Solid % Water Lb./gal. Chlorine PPM STU/lb.  
GAS .01 .000 .0 .0
6. Generation rates in kilograms.  
Monthly maximum Annual average Max. amount stored Max. days stored  
42 45 42 45 42 45 90
7. DOT shipping name DOT hazard class DOT ID code  
WASTE COMPRESSED GAS, NONFLAMMABLE, NOS ~~OXIDIZER~~ 1955  
Poison
8. Describe generation process.  
WASTE GENERATED FROM LABORATORY AND RESEARCH FACILITIES. ^THIS IS A PURE WASTE. ^

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

Amount Handled by site TSDf handling/Waste management methods

A : OFFSITE: IN  
B : ONSITE: Y  
C : ONSITE: Y  
D : ONSITE: Y

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a ( )
  - b. In process recycling. b ( )
  - c. Equipment/technology modification c ( )
  - d. Substituting raw materials d ( )
  - e. Improved operations. e ( )
  - f. No effort. f (X)
- g. Other - explain below: g ( )
11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a ( )
  - b. less toxic-b ( )
  - c. No change-c (X). Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
HALOGENATED GASES

Waste stream ID  
49

12. Chemical Characteristics. Concentration units. For EP toxic wastes, indicate PPM.

pH : Flash point: Reactive code : *% Weight*

<2.5

Major and hazardous constituents.	lower	upper
A CHLORINE TRIFLUORIDE	100	100
B HYDROGEN FLUORIDE	75	100
C CHLORINE	75	100
D FLUORINE	75	100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

Date rcvd	Complete?		Test results?		Reasonable?		Follow-up		Initials
	Yes	No	Yes	No	Yes	No	Yes	No	

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
 Small generator (3); Resource recovery (4); 6 Y  
 Partial exemption (5); Hazardous (6);  
 Accidental (7); No longer generated (8); Variance granted (9); Condi-  
 tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name. EPA ID CODE  
 UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004

2. Waste name. Waste stream ID  
 K-1232 SPENT CARBON FILTER AGENT 52

3. Give years waste generated : Date stopped : Frequency of generation  
 1985- /00/00 ~~CONTINUOUS~~ VARIOUS

4. Mark all appropriate hazard criteria below. (EPA waste codes : SIC  
 Ignitable (a), EP toxic (b), Corrosive (c),  
 Reactive (e), Other toxic (f)  
 CODES: F (F001F002F003 : 2819

5. Physical form (% Solid : % Water : Lb./gal. : Chlorine PPM : BTU/lb.)  
 OTHER SOLID : 100.0 : 5.000 : 0 : 0

6. Generation rates in kilograms.  
 Monthly maximum : Annual average : Max. amount stored : Max. days stored  
 208 208 208 90

7. DOT shipping name : DOT hazard class : DOT ID code  
 HAZARDOUS WASTE SOLID, NOS O R M - E 9189

8. Describe generation process.  
 WASTE GENERATED FROM CARBON COLUMN CHANGEDOUT. THIS IS A MIXED WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site or first day (kg)	Amount on site on last day (kg)
1990	0	0	0

Amount Handled by site : TSDF handling/Waste management methods

A : OFFSITE: IN  
 B : ONSITE: Y  
 C : ONSITE: Y  
 D : ONSITE: Y

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product	a ( )	d. Substituting raw materials	d ( )
b. In process recycling	b ( )	e. Improved operations	e ( )
c. Equipment/technology modification	c ( )	f. No effort	f (X)

g. Other - explain below: g ( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a ( ) b. less toxic-b ( ) c. No change-c (X) : Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
K-1232 SPENT CARBON FILTER AGENT

Waste stream ID  
52

12. Chemical Characteristics. | Concentration units. For EP toxic  
pH | Flash point; Reactive code | wastes, indicate PPM.  
% WEIGHT

Major and hazardous constituents.	lower	upper	
A CARBON	80	95	
B VARIOUS HALOGENATED SOLVENTS	5	20	

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd	Complete?	Test results?	Reasonable?	Follow-up	Initials
	Yes No	Yes No	Yes No	Yes No	

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
 Small generator (3); Resource recovery (4); R Y  
 Partial exemption (5); Hazardous (6);  
 Accidental (7); No longer generated (8); Variance granted (9); Condi-  
 tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name. EPA ID CODE  
 UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004

2. Waste name. Waste stream ID  
 HAZARDOUS WASTE LIQUID 60

3. Give years waste generated 1985 - Date stopped Frequency of generation  
~~12/31/85~~ 00/00/00 VARIOUS

4. Mark all appropriate hazard criteria below. (EPA waste codes) (SIC)  
 Ignitable (a), EP toxic (b), Corrosive (c),  
 Reactive (e), Other toxic (f)  
 CODES: F F002, F003, DOMX 2819

5. Physical form % Solid % Water Lb./gal. Chlorine PPM BTU/lb.  
 LIQUID, OTHER BASED 0 0 7.000 0 0

6. Generation rates in kilograms.  
 Monthly maximum Annual average Max. amount stored Max. days stored  
 8,846 ~~222~~ 8,846 ~~222~~ 8,846 ~~222~~ 90

7. DOT shipping name DOT hazard class DOT ID code  
 HAZARDOUS WASTE, LIQUIDS, NOS O R M - E 9189

8. Describe generation process.  
 LIQUID HAZARDOUS WASTE GENERATED DURING PLANT OPERATION. ^

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	25,874	0	0

(Amount Handled by site) TSDF handling/Waste management methods

- A : OFFSITE: IN:
- B : ONSITE: 145 kg (Y) S01, T06
- C : ONSITE: 23,132 kg (Y) S01-S02
- D : ONSITE: 2,597 kg (Y) T31, T23, T40

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

- a. Reformulation/redesign of product a ( ) d. Substituting raw materials d ( )
- b. In process recycling. b ( ) e. Improved operations. e ( )
- c. Equipment/technology modification c ( ) f. No effort. f (X)
- g. Other - explain below: g ( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a ( ) b. less toxic-b ( ) c. No change-c (X) Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
HAZARDOUS WASTE LIQUID

Waste stream ID  
60

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

>140

% Volume

Major and hazardous constituents.

A METHYLENE CHLORIDE

: lower : upper

10 80

B FREON

10 80

C ACETONE

0 5

D METHYL ETHYL KETONE

0 5

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.

SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
- 2. Waste name: K-1232/CNF CENTRIFUGED SLUDGE  
Waste stream ID: 64
- 3. Give years waste generated: 1985-  
Date stopped: /00/00  
Frequency of generation: CONTINUOUS
- 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)  
EPA waste codes: F006F001F002 F003  
SIC: 2819
- 5. Physical form: SLUDGE, WATER BASED  
% Solid: 70.01  
% Water: 29.99  
Lb./gal.: 10.000  
Chlorine PPM: .0  
BTU/lb.: .0
- 6. Generation rates in kilograms.  
Monthly maximum: 29,295  
Annual average: 29,295  
Max. amount stored: 29,295  
Max. days stored: 90
- 7. DOT shipping name: HAZARDOUS WASTE SOLIDS, NOS  
DOT hazard class: O R M - E  
DOT ID code: 9189
- 8. Describe generation process: CENTRIFUGE CAKE GENERATED FROM TREATMENT OF ELECTROPLATING WASTE AND CNF WASTE WATER. THIS IS A MIXED WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	69,295	0	0

Amount Handled by site	TSDF handling/Waste management methods
A : OFFSITE:	[N]
B : ONSITE: 69,295 kg	[Y] S01
C : ONSITE:	[Y]
D : ONSITE:	[Y]

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a( )
  - b. In process recycling b( )
  - c. Equipment/technology modification c( )
  - d. Substituting raw materials d( )
  - e. Improved operations e( )
  - f. No effort. f(X)
- g. Other - explain below: g( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c(X). Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
K-1232/CNF CENTRIFUGED SLUDGE

Waste stream ID  
64

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.  
% VOLUME

Major and hazardous constituents.

	lower	upper
A LIME	50	90
B WATER	5	45
C VARIOUS HALOGENATED SOLVENTS	1	5
D EP TOXIC/OTHERWISE TOXIC SUBSTANCES	0	TRACE

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

Date rcvd	Complete?		Test results?		Reasonable?		Follow-up		Initials
	Yes	No	Yes	No	Yes	No	Yes	No	

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
 Small generator (3); Resource recovery (4); R Y  
 Partial exemption (5); Hazardous (6);  
 Accidental (7); No longer generated (8); Variance granted (9); Condi-  
 tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE TNO 89-009-0004
- 2. Waste name. LABORATORY ACIDS (BMP)  
Waste stream ID 70
- 3. Give years waste generated 1986-  
Date stopped /00/00  
Frequency of generation CONTINUOUS
- 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)  
EPA waste codes : SIC  
CODES: BC  
D002D007 : 2819  
D008D009

- 5. Physical form LIQUID, WATER BASED  
% Solid 3.0  
% Water 97.0  
Lb./gal. 9.000  
Chlorine PPM 0  
BTU/lb. 0
- 6. Generation rates in kilograms.  
Monthly maximum 7,000  
Annual average 19,879  
Max. amount stored 7,000  
Max. days stored 90

- 7. DOT shipping name HAZARDOUS WASTE LIQUID, NOS  
DOT hazard class O R M - E  
DOT ID code 9189
- 8. Describe generation process.  
THIS WASTE STREAM IS COLLECTED AS PART OF THE BEST MANAGEMENT PLAN (BMP). THE STREAM CONSIST OF WASTE SAMPLES AND REAGENTS USED IN THE ANALYSES OF SAMPLES. THIS IS A MIXED WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	21,017	6,800	4,725

Amount Handled by site

A : OFFSITE:	IN
B : ONSITE: 23,092 kg	Y: SOI
C : ONSITE:	Y:
D : ONSITE:	Y:

TSDF handling/Waste management methods

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a( )
  - b. In process recycling. . . . . b( )
  - c. Equipment/technology modification c( )
  - d. Substituting raw materials d( )
  - e. Improved operations. . . . . e( )
  - f. No effort. . . . . f(X)
- g. Other - explain below: . . . . . g( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c(X)
  - Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
LABORATORY ACIDS (BMP)

Waste stream ID  
70

12. Chemical Characteristics. Concentration units. For EP toxic wastes, indicate PPM.  
pH | Flash point | Reactive code

Major and hazardous constituents.

- A VARIOUS ACIDS
- B CADMIUM
- C CHROMIUM
- D LEAD
- E MERCURY

	lower	upper
	99% Vol.	99.9% Vol.
	<1 PPM	16 PPM
	<5 PPM	790 PPM
	<5 PPM	13 PPM
	<.2 PPM	20 PPM

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd	Complete?	Test results?	Reasonable?	Follow-up	Initials
	Yes No	Yes No	Yes No	Yes No	

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
 Small generator (3); Resource recovery (4); 6 Y  
 Partial exemption (5); Hazardous (6);  
 Accidental (7); No longer generated (8); Variance granted (9); Condi-  
 tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
- 2. Waste name: LABORATORY BASES (BMP)  
Waste stream ID: 71
- 3. Give years waste generated: 1986-  
Date stopped: /00/00  
Frequency of generation: CONTINUOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes | SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES:  C  
| ~~ID002B0066D007~~ | 2819  
| ~~D008B0007~~
- 5. Physical form: LIQUID, WATER BASED  
% Solid: 5.01  
% Water: 94.99  
Lb./gal.: 9.000  
Chlorine PPM: 0  
BTU/lb.: 0
- 6. Generation rates in kilograms.  
Monthly maximum: 1,500 ~~3-897~~  
Annual average: 3,553 ~~3-897~~  
Max. amount stored: 1,500  
Max. days stored: 90
- 7. DOT shipping name: HAZARDOUS WASTE LIQUID, NOS  
DOT hazard class: O R M - E  
DOT ID code: 9189

8. Describe generation process.  
THIS WASTE STREAM IS COLLECTED AS PART OF THE BEST MANAGEMENT PLAN (BMP). THE STREAM CONSIST OF WASTE SAMPLES AND REAGENTS USED IN THE ANALYSES OF SAMPLES. THIS IS A MIXED WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	2,938	376	450

Amount Handled by site	TSDF handling/Waste management methods
A OFFSITE:	
B ONSITE: 2,864 kg	IN: SOI
C ONSITE:	Y:
D ONSITE:	Y:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a ( )
  - b. In process recycling. b ( )
  - c. Equipment/technology modification c ( )
  - d. Substituting raw materials d ( )
  - e. Improved operations. e ( )
  - f. No effort. f (X)
  - g. Other - explain below: g ( )

- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a ( )
  - b. less toxic-b ( )
  - c. No change-c (X) | Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
LABORATORY BASES (BMP)

Waste stream ID  
71

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents.

- A VARIOUS BASES
- B CADMIUM
- C CHROMIUM
- D CYANIDE
- E LEAD
- F MERCURY

	: lower	: upper
	98% Vol.	99.9% Vol.
	<1 PPM	1.7 PPM:
	<5 PPM	32 PPM:
	<5 PPM	120 PPM:
	<5 PPM	5.7 PPM:
	<.2 PPM	5 PPM :

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd	Complete?	Test results?	Reasonable?	Follow-up	Initials
	: Yes No	: Yes No	: Yes No	: Yes No	

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
 Small generator (3); Resource recovery (4); 6 Y  
 Partial exemption (5); Hazardous (6);  
 Accidental (7); No longer generated (8); Variance granted (9); Condi-  
 tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.



Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
LABORATORY ORGANICS (BMP)

Waste stream ID  
72

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents.

- A VARIOUS ORGANICS
- B CADMIUM
- C CHROMIUM
- D MERCURY

	: lower	: upper
	98 % Vol.	99.9 % Vol.
	<1 PPM	1.7 PPM
	<5 PPM	8.7 PPM
	<.2 PPM	446 PPM

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
- 2. Waste name: LABORATORY SLUDGES (BMP)  
Waste stream ID: 73
- 3. Give years waste generated: 1986-  
Date stopped: /00/00  
Frequency of generation: CONTINUOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes | SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: ~~1006009, D008~~ | 2819
- 5. Physical form: SLUDGE, WATER BASED  
% Solid: 90.01 | % Water: 9.99  
Lb./gal.: 12.000 | Chlorine PPM: 0  
BTU/lb.: 0
- 6. Generation rates in kilograms.  
Monthly maximum: 671 ~~388~~ | Annual average: 671 ~~388~~ | Max. amount stored: 671 ~~388~~ | Max. days stored: 90
- 7. DOT shipping name: HAZARDOUS WASTE SOLID, NOS  
DOT hazard class: O R M - E | DOT ID code: 9189

8. Describe generation process.  
SOLID WASTE FROM LABORATORY ANALYSIS

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	873	0	600

(Amount Handled by site | TSDF handling/Waste management methods

- A : OFFSITE: ( )
- B : ONSITE: 273 kg (Y) SOI
- C : ONSITE: (Y)
- D : ONSITE: (Y)

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year
  - a. Reformulation/redesign of product ( )
  - b. In process recycling ( )
  - c. Equipment/technology modification ( )
  - d. Substituting raw materials ( )
  - e. Improved operations ( )
  - f. No effort (X)

g. Other - explain below: ( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

- a. more toxic-a ( )
- b. less toxic-b ( )
- c. No change-c (X) | Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
LABORATORY SLUDGES (BMP)

Waste stream ID  
73

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.  
PPM

Major and hazardous constituents. : lower : upper  
Lead : 0 : 500  
Mercury : 0 : 50

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); R Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
2. Waste name: SILVER RECOVERY  
Waste stream ID: 74
3. Give years waste generated: 1983-  
Date stopped: /00/00  
Frequency of generation: VARIOUS
4. Mark all appropriate hazard criteria below. (c)  
Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)  
EPA waste codes: SIC: DO11D002 2819  
CODES: B
5. Physical form: LIQUID, OTHER BASED  
% Solid: 0  
% Water: 100  
Lb./gal.: 7.500  
Chlorine PPM: 0  
BTU/lb.: 0
6. Generation rates in kilograms.  
Monthly maximum: 6,933  
Annual average: 6,933  
Max. amount stored: 6,933  
Max. days stored: 90
7. DOT shipping name: HAZARDDUS WASTE LIQUID, NOS  
DOT hazard class: O R M - E  
DOT ID code: 9189
8. Describe generation process: PHOTOGRAPHIC /X-RAY DEVELOPMENT

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	7,570	0	0

Amount Handled by site	TSDF handling/Waste management methods
A : OFFSITE:	(N)
B : ONSITE: 7,570 kg	(Y) S01
C : ONSITE:	(Y)
D : ONSITE:	(Y)

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
 

a. Reformulation/redesign of product	( )	d. Substituting raw materials	( )
b. In process recycling	( )	e. Improved operations	( )
c. Equipment/technology modification	( )	f. No effort	(X)
- g. Other - explain below: g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
 

a. more toxic-a( )	b. less toxic-b( )	c. No change-c(X)	Amt of Reduction (kg)
--------------------	--------------------	-------------------	-----------------------

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
SILVER RECOVERY

Waste stream ID  
74

12. Chemical Characteristics. Concentration units. For EP toxic wastes, indicate PPM.  
pH ; Flash point; Reactive code ;

Major and hazardous constituents.  
A SILVER

% Volume

lower upper  
~~100~~ 100  
75

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
; Yes No ; Yes No ; Yes No ; Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name. : EPA ID CODE  
UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004
2. Waste name. : Waste stream ID  
BENZOYL PEROXIDE AND ORGANIC PEROXIDES 75
3. Give years waste generated : Date stopped : Frequency of generation  
1987- /00/00 VARIOUS
4. Mark all appropriate hazard criteria below. : EPA waste codes : SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: AE : D003D001 : 2819
5. Physical form : % Solid : % Water : Lb./gal : Chlorine PPM : BTU/lb.  
LIQUID, OTHER BASED : 0 : 10.800 : 0 : 0
6. Generation rates in kilograms.  
Monthly maximum : Annual average : Max. amount stored : Max. days stored  
4 ~~3~~ 4 ~~3~~ 4 ~~3~~ 90
7. DOT shipping name : DOT hazard class : DOT ID code  
~~BENZOYL PEROXIDE (30% 52%) WITH INERT~~ ORGANIC PEROXIDE 9183  
SOLIDS Waste Organic Peroxide, Liquid, NOS
8. Describe generation process.  
MATERIAL DISCOVERED DURING CLEAN UP OF LABORATORY AREAS. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.
- \*\* ANNUAL REPORT SECTION \*\* LINES 9-11
9. Report : Amount generated : Amount on site on : Amount on site on  
Year : during year (kg) : first day (kg) : last day (kg)  
1990 : 4 : 0 : 0  
: Amount Handled by site : TSDF handling/Waste management methods  
A : OFFSITE: 4 kg : IN: T07  
B : ONSITE: : Y:  
C : ONSITE: : Y:  
D : ONSITE: : Y:
10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.  
a. Reformulation/redesign of product a ( ) d. Substituting raw materials d ( )  
b. In process recycling. b ( ) e. Improved operations. e ( )  
c. Equipment/technology modification c ( ) f. No effort. f (X)
- g. Other - explain below: g ( )
11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.  
a. more toxic-a ( ) b. less toxic-b ( ) c. No change-c (X) : Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
BENZOYL PEROXIDE AND ORGANIC PEROXIDES

Waste stream ID  
75

12. Chemical Characteristics. | Concentration units. For EP toxic  
pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous constituents.  
A BENZOYL PEROXIDE

% Volume

lower | upper  
100 | 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
| Yes No | Yes No | Yes No | Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE ; EPA ID CODE TNO 89-009-0004
- 2. Waste name: HYDROGEN PEROXIDE ; Waste stream ID 77
- 3. Give years waste generated: 1987- ; Date stopped: /00/00 ; Frequency of generation: VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes ; SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES: E ; D003D001 ; 2819
- 5. Physical form: LIQUID, OTHER BASED ; % Solid: 0 ; % Water: 100 ; (Lb./gal. : 8.200 ; Chlorine PPM : 0 ; BTU/lb. : 0
- 6. Generation rates in kilograms. Monthly maximum: 10 ; Annual average: 10 ; Max. amount stored: 10 ; Max. days stored: 90
- 7. DOT shipping name: WASTE HYDROGEN PEROXIDE SOLUTION (8% to 40% Peroxide) ; DOT hazard class: OXIDIZER ; DOT ID code: 2014
- 8. Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

Amount Handled by site ; TSDf handling/Waste management methods

A : OFFSITE: ; N ;  
 B : ONSITE: ; Y ;  
 C : ONSITE: ; Y ;  
 D : ONSITE: ; Y ;

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a ( )
  - b. In process recycling. b ( )
  - c. Equipment/technology modification c ( )
  - d. Substituting raw materials d ( )
  - e. Improved operations. e ( )
  - f. No effort. f (X)
- g. Other - explain below: g ( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a ( )
  - b. less toxic-b ( )
  - c. No change-c (X) ; Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
HYDROGEN PEROXIDE

Waste stream ID  
77

12. Chemical Characteristics. | Concentration units. For EP toxic  
pH | Flash point | Reactive code | wastes, indicate PPM.  
% Volume

Major and hazardous constituents. | lower | upper  
A HYDROGEN PEROXIDE | 8 | 20 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
| Yes No | Yes No | Yes No | Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological wastse (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
2. Waste name: METALLIC MERCURY  
Waste stream ID: 82
3. Give years waste generated: 1987-  
Date stopped: /00/00  
Frequency of generation: VARIOUS
4. Mark all appropriate hazard criteria below. (EPA waste codes | SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: B | D009U151 | 2819
5. Physical form: OTHER SOLID  
% Solid: 0 | % Water: 0 | Lb./gal.: 113.000 | Chlorine PPM: 0 | BTU/lb.: 0
6. Generation rates in kilograms.  
Monthly maximum: 308 ~~49~~ | Annual average: 308 ~~49~~ | Max. amount stored: 308 ~~49~~ | Max. days stored: 90
7. DOT shipping name: WASTE MERCURY METALLIC  
DOT hazard class: O R M - E | DOT ID code: NA2809
8. Describe generation process: MERCURY REMOVED FROM INSTRUMENTATION

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	781	0	0

Amount Handled by site	TSDF handling/Waste management methods
A: OFFSITE:	IN:
B: ONSITE: 781 kg	Y: SOI
C: ONSITE:	Y:
D: ONSITE:	Y:

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year
  - a. Reformulation/redesign of product ( )
  - b. In process recycling ( )
  - c. Equipment/technology modification ( )
  - d. Substituting raw materials ( )
  - e. Improved operations ( )
  - f. No effort (X)
  - g. Other - explain below: ( )
11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a ( )
  - b. less toxic-b ( )
  - c. No change-c (X) | Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
METALLIC MERCURY

Waste stream ID  
82

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents.  
A METALLIC MERCURY

*% Weight*

: lower : upper  
100 100 :

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. EPA ID CODE  
TNO 89-009-0004  
UNITED STATES DEPT OF ENERGY K-25 SITE
- 2. Waste name. Waste stream ID  
84  
RAGS CONTAMINATED WITH SOLVENTS
- 3. Give years waste generated | Date stopped | Frequency of generation  
1987- | /00/00 | VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes | SIC  
Ignitable (a), EP toxic (b), Corrosive (c)   
Reactive (e), Other toxic (f)  
CODES: F ~~FO06D002~~ | 2819
- 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.  
OTHER SOLID | .01 | 8.000 | .0 | .0
- 6. Generation rates in kilograms.  
Monthly maximum | Annual average | Max. amount stored | Max. days stored  
806 ~~804~~ | 806 ~~804~~ | 806 ~~804~~ | 90
- 7. DOT shipping name DOT hazard class | DOT ID code  
HAZARDOUS WASTE SOLID N O S D R M - E | NA9189
- 8. Describe generation process.  
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA AND PROCESS AREAS.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	9	0	9

  

Amount Handled by site	TSDF handling/Waste management methods
A : OFFSITE: 0 kg	[N]
B : ONSITE: 0 kg	[Y]
C : ONSITE:	[Y]
D : ONSITE:	[Y]

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product
  - b. In process recycling
  - c. Equipment/technology modification
  - d. Substituting raw materials
  - e. Improved operations
  - f. No effort
- g. Other - explain below: \_\_\_\_\_ g( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c(  ) : Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
RAGS CONTAMINATED WITH SOLVENTS

Waste stream ID  
84

12. Chemical Characteristics. Concentration units. For EP toxic  
pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous constituents.  
A TRICHLOROETHANE

% Volume

lower | upper  
0 | 10% |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
| Yes No | Yes No | Yes No | Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
- 2. Waste name: TSCA INCINERATOR ASH  
Waste stream ID: 85
- 3. Give years waste generated: 1987-  
Date stopped: /00/00  
Frequency of generation: VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes ; SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: ~~AF~~ ; F001F002F003 ; 2819  
F006
- 5. Physical form (% Solid;% Water;Lb./gal. ; Chlorine PPM ; BTU/lb.  
OTHER SOLID ; 90.01 ; 8.000 ; 0 ; 0
- 6. Generation rates in kilograms.  
Monthly maximum ; Annual average ; Max. amount stored ; Max. days stored  
10,000 ~~41,846~~ ; 43,216 ~~41,846~~ ; 10,000 ; 90
- 7. DOT shipping name ; DOT hazard class ; DOT ID code  
HAZARDOUS WASTE SOLID, NOS ; O R M - E ; 9189
- 8. Describe generation process.  
ASH IS GENERATED DURING OPERATION OF K-1435 TSCA/RCRA DUAL-PURPOSE  
INCINERATOR

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11 -----

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	14,233	0	0

Amount Handled by site ; TSDF handling/Waste management methods

A : OFFSITE:	IN:
B : ONSITE: 14,233 kg	Y: Sol
C : ONSITE:	Y:
D : ONSITE:	Y:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a( )
  - b. In process recycling b( )
  - c. Equipment/technology modification c( )
  - d. Substituting raw materials d( )
  - e. Improved operations e( )
  - f. No effort f(X)
- g. Other - explain below: g( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c(X) ; Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
TSCA INCINERATOR ASH

Waste stream ID  
85

12. Chemical Characteristics. | Concentration units. For EP toxic  
pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous constituents. | lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
| Yes No | Yes No | Yes No | Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
- 2. Waste name: METAL SHAVINGS CONTAINING LEAD AND LEAD PRODUCTS  
Waste stream ID: 93
- 3. Give years waste generated: 1987-  
Date stopped: /00/00  
Frequency of generation: VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes) (SIC)  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: B (D008) (2819)
- 5. Physical form: OTHER SOLID  
% Solid: .01  
% Water: .01  
Lb./gal.: 90.000  
Chlorine PPM: .0  
BTU/lb.: .0
- 6. Generation rates in kilograms.  
Monthly maximum: 0 24  
Annual average: 0 24  
Max. amount stored: 24  
Max. days stored: 90
- 7. DOT shipping name: HAZARDOUS WASTE SOLID, NOS  
DOT hazard class: O R M - E  
DOT ID code: 9189
- 8. Describe generation process: METAL SHAVINGS GENERATED DURING FABRICATION OF METAL PARTS.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

  

Amount Handled by site	TSDf handling/Waste management methods
A: OFFSITE:	IN:
B: ONSITE:	Y:
C: ONSITE:	Y:
D: ONSITE:	Y:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a ( )
  - b. In process recycling b ( )
  - c. Equipment/technology modification c ( )
  - d. Substituting raw materials d ( )
  - e. Improved operations e ( )
  - f. No effort f (X)
  - g. Other - explain below: g ( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a ( )
  - b. less toxic-b ( )
  - c. No change-c (X) : Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
METAL SHAVINGS CONTAINING LEAD AND LEAD PRODUCTS

Waste stream ID  
93

12. Chemical Characteristics. Concentration units. For EP toxic wastes, indicate PPM.  
pH | Flash point | Reactive code |

Major and hazardous constituents. % Weight | lower | upper  
A LEAD | 1% | 5% |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
| Yes No | Yes No | Yes No | Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological wastse (R); Corrective action (C).

18. Comments.

Date: 02/91

## Hazardous Waste Stream Report

Tennessee Department of Health and Environment, Division of Solid Waste Management.  
 Customs House - Fourth Floor, 701 Broadway, Nashville, TN 37219-5403

1. Organization's full name at facility. <i>United States Department of Energy K-25 Site</i>		EPA identification code <i>TN0 89-009-0004</i>
2. Waste name. Use standard name from regulations whenever possible. <i>Waste Cyclohexane</i>		Waste Stream number <i>103</i>
3. Give the years that this waste has been generated, e.g. 1975, 1982-. <i>1987-</i>	Date no longer generated. (MM/DD/YY)	Frequency of generation Continuous    Accidental/One time <b>Various</b>
4. Circle all appropriate hazard criteria below. Ignitable (a) EP toxic (b). Corrosive (c). Reactive (e), Other toxic (f).	EPA waste codes. (Primary first) <i>D001</i>	SIC code for generating process. <i>2819</i>
5. Physical form <i>Liquid, other based</i>	Percent solid % Percent water %	Vol. to wt. conversion (pounds per gallon) <i>6.50</i>
		If used for fuel, chlorine content PPM BTU per pound /lb.
6. Generation rates. Supply all rates in kilograms. Monthly maximum <i>6 (kg)</i>	Annual average <i>6 (kg)</i>	Maximum amount stored on-site <i>6 (kg)</i>
		Maximum days stored <i>90</i>
7. DOT shipping name <i>Waste Cyclohexane</i>	DOT hazard class <i>Flammable Liquid</i>	DOT ID code <i>1145</i>

8. Describe generation process.  
*Material discovered during cleanup of laboratory area. Material is not normally generated or stored at the K-25 Site.*

\*\*\* ANNUAL REPORT SECTION \*\*\* Complete at end of each calendar year. Continue waste stream description report with line 12 on the back.

9. Report annual generation and handling data. If the waste was shipped off-site, summarize in block (a) and submit an Offsite Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that require interim status or a permit, use "T", "S", or "D" codes from the instructions. For other onsite handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site on first day of year (kg)	Amount on-site on last day of year (kg)
<i>1990</i>	<i>18</i>	<i>0</i>	<i>0</i>
Total Handled Offsite a. <i>18 kg</i>  N     T07		Amount Handled Onsite b.                     Y	
Amount Handled Onsite c.                     Y		Amount Handled Onsite d.                     Y	

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. This reduction refers to generation processes and not treatment methods.

a. Reformulation/redesign of product . . . . . a ( )	d. Substituting raw materials . . . . . d ( )
b. In process recycling . . . . . b ( )	e. Improved operations . . . . . e ( )
c. Equipment/technology modification . . . . . c ( )	f. No effort . . . . . f (X)

g. Other - explain below: . . . . . g ( )

11. Describe changes in volume and toxicity that those reduction efforts described in line 10 produced last year compared to the previous year. Amount of Reduction (kg)

a. Increased toxicity-a ( ) . b. decreased toxicity-b ( ) . c. No change-c (X).

Date: 02/91

12. Chemical Characteristics.			Concentration units. For EP toxic wastes, indicate PPM. % volume(X), % weight( ), PPM( )	
pH	Flash point	Reactive code		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a.	Cyclohexane		100%	100%
b.				
c.				
d.				
e.				

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

14. Describe storage, treatment, and disposal methods using codes in the instructions.			
Location	Treatment codes	Storage codes	Disposal codes
On-site:			
Off-site:			

15. Identify transporters, TSDR operators and recyclers involved in handling this waste.	
Name and address	EPA identification code

16. Certification: I certify that this information is true, accurate and complete.		
SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:

\*\*\* Below is for Department use only. \*\*\*\*

17. Date received (MM/DD/YY)	Complete?	Test results?	Reasonable?	Follow up	Initials
	Yes No	Yes No	Yes No	Yes No	
Status: Not hazardous (1); Demonstrated not hazardous (2); Resource recovery (4); Status Further Reporting					
Partial exemption (5); Hazardous (6); Accidental (7);					
No longer generated (8); Variance granted (9); Conditionally exempt (A);					
Mixed radiological wastes (R), and Corrective Action (C). Y N					

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. : EPA ID CODE  
UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004
- 2. Waste name. : Waste stream ID  
DIOCTYL PHTHALATE 107
- 3. Give years waste generated : Date stopped : Frequency of generation  
1987- /00/00 VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes : SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: F :U107 : 2819
- 5. Physical form : % Solid : % Water : (Lb./gal. : Chlorine PPM : BTU/lb.  
LIQUID, OTHER BASED : .01 : 8.090 : 0 : 0
- 6. Generation rates in kilograms.  
Monthly maximum : Annual average : Max. amount stored : Max. days stored  
144 76 144 76 144 76 90
- 7. DOT shipping name : DOT hazard class : DOT ID code  
WASTE DIOCTYL PHTHALATE POISON B UN2810
- 8. Describe generation process.  
MATERIAL IS GENERATED DURING OPERATION OF THE FILTER TEST FACILITY.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11 -----

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	205	0	0

Amount Handled by site	TSDf handling/Waste management methods
A : OFFSITE:	NI
B : ONSITE: 205 kg	YI S01
C : ONSITE:	YI
D : ONSITE:	YI

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a( )
  - b. In process recycling b( )
  - c. Equipment/technology modification c( )
  - d. Substituting raw materials d( )
  - e. Improved operations e( )
  - f. No effort. f(X)
  - g. Other - explain below: g( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c(X) : Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
DIOCTYL PHTHALATE

Waste stream ID  
107

12. Chemical Characteristics. Concentration units. For EP toxic wastes, indicate PPM.  
pH : Flash point: Reactive code : % Volume

Major and hazardous constituents. lower upper  
A DIOCTYL PHTHALATE 100 % 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological wastse (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. EPA ID CODE  
UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004
- 2. Waste name. Waste stream ID  
ASBESTOS COVERED LEAD PIPE 121
- 3. Give years waste generated : Date stopped : Frequency of generation  
1973 - : /00/00 : VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes : SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: B : D008 : 2819
- 5. Physical form : % Solid : % Water : Lb./gal. : Chlorine PPM : BTU/lb.  
OTHER SOLID : 100.0 : 95.000 : .0 : .0
- 6. Generation rates in kilograms.  
Monthly maximum : Annual average : Max. amount stored : Max. days stored  
1,114 ~~742~~ : 1,114 ~~742~~ : 1,114 : 90
- 7. DOT shipping name : DOT hazard class : DOT ID code  
WASTE ORM-E : O R M - E : 9188
- 8. Describe generation process.  
LEAD PIPE COVERED WITH ASBESTOS

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

	Amount Handled by site	TSDf handling/Waste management methods
A : OFFSITE:	IN	
B : ONSITE:	Y	
C : ONSITE:	Y	
D : ONSITE:	Y	

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a ( )
  - b. In process recycling. . . . . b ( )
  - c. Equipment/technology modification c ( )
  - d. Substituting raw materials d ( )
  - e. Improved operations. . . . . e ( )
  - f. No effort. . . . . f (X)
- g. Other - explain below: . . . . . g ( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a ( )
  - b. less toxic-b ( )
  - c. No change-c (X) : Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
ASBESTOS COVERED LEAD PIPE

Waste stream ID  
121

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point! Reactive code : wastes, indicate PPM.

Major and hazardous constituents.

A LEAD  
B ASBESTOS

% Weight

: lower : upper  
70 100%  
0 30%

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological wastse (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
- Waste name: HAZARDOUS WASTE SOLID (Bulk)  
Waste stream ID: 122
- Give years waste generated: 1985-  
Date stopped: /00/00  
Frequency of generation: VARIOUS
- Mark all appropriate hazard criteria below. EPA waste codes: SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: BF  
FO01, FO02, FO03, DO01, DOMX  
2819
- Physical form: OTHER SOLID  
% Solid: 100.01  
% Water: 0  
Lb./gal.: 8.000  
Chlorine PPM: 0  
BTU/lb.: 0
- Generation rates in kilograms.  
Monthly maximum: 27,375  
Annual average: 27,375  
Max. amount stored: 27,375  
Max. days stored: 90
- DOT shipping name: ~~ORM-E~~ Hazardous Waste Solid, NOS  
DOT hazard class: O R M - E  
DOT ID code: 9189
- Describe generation process: MISCELLANEOUS SOLIDS CONTAMINATED WITH HAZARDOUS MATERIALS^

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	54,730	0	109

Amount Handled by site

A : OFFSITE:		IN:	
B : ONSITE:	442 kg	Y:	SO1, T39, D81
C : ONSITE:	54,179 kg	Y:	SO1
D : ONSITE:		Y:	

TSDf handling/Waste management methods

- Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
 

a. Reformulation/redesign of product	a ( )	d. Substituting raw materials	d ( )
b. In process recycling	b ( )	e. Improved operations	e ( )
c. Equipment/technology modification	c ( )	f. No effort	f (X)
- Other - explain below: g ( )
- Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
 

a. more toxic-a ( )	b. less toxic-b ( )	c. No change-c (X)	! Amt of Reduction (kg)
---------------------	---------------------	--------------------	-------------------------

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
HAZARDOUS WASTE SOLID (Bulk)

Waste stream ID  
122

12. Chemical Characteristics. Concentration units. For EP toxic wastes, indicate PPM.  
pH | Flash point | Reactive code | % Weight

Major and hazardous constituents.  
A CONTAMINATED CONCRETE  
B CONTAMINATED SOILS

lower upper  
100 100  
100 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
Yes No Yes No Yes No Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological wastse (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name. EPA ID CODE  
TNO 89-009-0004  
UNITED STATES DEPT OF ENERGY K-25 SITE
2. Waste name. Waste stream ID  
123  
WATER REACTIVES (SOLIDS)
3. Give years waste generated Date stopped Frequency of generation  
1985- /00/00 VARIOUS
4. Mark all appropriate hazard criteria below. EPA waste codes SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: AEF D003D001 2819
5. Physical form % Solid % Water Lb./gal. Chlorine PPM BTU/lb.  
OTHER SOLID 100.0 8.000 0 0
6. Generation rates in kilograms.  
Monthly maximum Annual average Max. amount stored Max. days stored  
1 0 1 90
7. DOT shipping name DOT hazard class DOT ID code  
WASTE WATER REACTIVE SOLID, NOS FLAMMABLE SOLID 2813
8. Describe generation process.  
MATERIALS DISCOVERED DURING LABORATORY CLEAN OUT
- \*\* ANNUAL REPORT SECTION \*\* LINES 9-11
9. Report 

Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

  

Amount Handled by site	TSDF handling/Waste management methods
A : OFFSITE:	IN:
B : ONSITE:	Y:
C : ONSITE:	Y:
D : ONSITE:	Y:
10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
 

a. Reformulation/redesign of product	a( )	d. Substituting raw materials	d( )
b. In process recycling	b( )	e. Improved operations	e( )
c. Equipment/technology modification	c( )	f. No effort	f(X)

g. Other - explain below: g( )
11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
 

a. more toxic-a( )	b. less toxic-b( )	c. No change-c(X)	Amount of Reduction (kg)
--------------------	--------------------	-------------------	--------------------------

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

: EPA ID CODE  
TNO 89-009-0004

Waste name.  
WATER REACTIVES (SOLIDS)

: Waste stream ID  
123

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents.  
A SODIUM  
B POTASSIUM

*% Weight*

: lower : upper  
0 100 :  
0 100 :

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

=====  
Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological wastse (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
- 2. Waste name: WASTE OXIDIZER CORROSIVE LIQUID  
Waste stream ID: 124
- 3. Give years waste generated: 1985-  
Date stopped: /00/00  
Frequency of generation: VARIOUS
- 4. Mark all appropriate hazard criteria below. EPA waste codes: ID002D003D007  
SIC: 2819  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: CEF
- 5. Physical form: LIQUID, OTHER BASED  
% Solid: 10.01  
% Water: 1000  
Chlorine PPM: 0  
BTU/lb.: 0
- 6. Generation rates in kilograms.  
Monthly maximum: 10  
Annual average: 0-10  
Max. amount stored: 10  
Max. days stored: 90
- 7. DOT shipping name: OXIDIZER CORROSIVE LIQUID NOS  
DOT hazard class: OXIDIZER  
DOT ID code: UN9193
- 8. Describe generation process: WASTE MATERIALS FROM LABORATORY ANALYSIS OR CONCENTRATED CLEANING SOLUTIONS

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

Amount Handled by site | TSDf handling/Waste management methods

A : OFFSITE: | (N)

B : ONSITE: | (Y)

C : ONSITE: | (Y)

D : ONSITE: | (Y)

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a( )
  - b. In process recycling b( )
  - c. Equipment/technology modification c( )
  - d. Substituting raw materials d( )
  - e. Improved operations e( )
  - f. No effort. f(X)
- g. Other - explain below: g( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c(X) | Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
WASTE OXIDIZER CORROSIVE LIQUID

Waste stream ID  
124

12. Chemical Characteristics. Concentration units. For EP toxic  
pH ; Flash point; Reactive code ; wastes, indicate PPM.

Major and hazardous constituents. % Volume ; lower ; upper  
A WASTE CLEANING SOLUTION (CHROMIC ACID) 0 100 ;  
B OXIDIZING ACIDS (PERCHLORIC ACID) 0 100 ;

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
; Yes No ; Yes No ; Yes No ; Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE TNO 89-009-0004
- 2. Waste name. WASTE COMPRESSED GAS FLAMMABLE NOS  
Waste stream ID 125
- 3. Give years waste generated 1985-  
Date stopped /00/00  
Frequency of generation VARIDUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes ; SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: AF ; 1001, U043, U115 ; 2819
- 5. Physical form % Solid % Water Lb./gal. Chlorine PPM BTU/lb.  
.01 .000 .0 .0
- 6. Generation rates in kilograms.  
Monthly maximum Annual average Max. amount stored Max. days stored  
12 12 12 90
- 7. DOT shipping name COMPRESSED GAS, FLAMMABLE  
DOT hazard class FLAMMABLE GAS  
DOT ID code UN1954

8. Describe generation process.  
WASTE CYLINDERS OF GASES FROM PAINT SPRAY CANS OR LABORATORY CYLINDERS

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	16	0	0

Amount Handled by site TSDf handling/Waste management methods

A : OFFSITE: ( )  
 B : ONSITE: 16 kg ( )  
 C : ONSITE: ( )  
 D : ONSITE: ( )

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product ( )
  - b. In process recycling ( )
  - c. Equipment/technology modification ( )
  - d. Substituting raw materials ( )
  - e. Improved operations ( )
  - f. No effort. (X)
- g. Other - explain below: ( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c(X) ; Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
WASTE COMPRESSED GAS FLAMMABLE NOS

Waste stream ID  
125

12. Chemical Characteristics. | Concentration units. For EP toxic  
pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous constituents.  
A WASTE PAINT SPRAY CANS

% Weight

lower | upper  
0 | 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
| Yes No | Yes No | Yes No | Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
- 2. Waste name: WASTE SLUDGE FROM CLOSURE OF B/C POND  
Waste stream ID: 126
- 3. Give years waste generated: 1987-  
Date stopped: /00/00  
Frequency of generation: VARIOUS
- 4. Mark all appropriate hazard criteria below: Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)  
EPA waste codes: F006B002F003  
SIC CODES: 2819
- 5. Physical form: OTHER SOLID  
% Solid: 90.01  
% Water: 11.100  
Chlorine PPM: .0  
BTU/lb.: .0
- 6. Generation rates in kilograms:  
Monthly maximum: 5,000  
Annual average: 7,343,655  
Max. amount stored: 5,000  
Max. days stored: 90
- 7. DOT shipping name: ~~CORROSIVE SOLID NOS~~  
Hazardous Waste Solid, Nos  
DOT hazard class: CORROSIVE  
DOT ID code: NA1759
- 8. Describe generation process: SLUDGE REMOVAL FROM CLOSURE OF SURFACE IMPOUNDMENT (B/C PONDS)  
ORM-E  
9189

\*\* ANNUAL REPORT SECTION \*\*

LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	8,955	0	0

Amount Handled by site	TSD/ handling/Waste management methods
A : OFFSITE:	NI
B : ONSITE: 8,955 kg	YI Sol
C : ONSITE:	YI
D : ONSITE:	YI

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a( )
  - b. In process recycling b( )
  - c. Equipment/technology modification c( )
  - d. Substituting raw materials d( )
  - e. Improved operations e( )
  - f. No effort. f(X)
- g. Other - explain below: g( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c(X)
  - Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
WASTE SLUDGE FROM CLOSURE OF B/C POND

Waste stream ID  
126

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents.

A POTASSIUM HYDROXIDE  
B NICKEL HYDROXIDE  
C URANIUM  
D WATER

% Volume

	lower	upper
A	50	90
B	5	10
C	0	1
D	0	10

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials.  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE TNO 89-009-0004
- 2. Waste name. FLAMMABLE CORROSIVE SOLIDS LAB PACK  
Waste stream ID 127
- 3. Give years waste generated 1989-  
Date stopped /00/00  
Frequency of generation VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes ; SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: AC ; D001D002 ; 2819
- 5. Physical form (% Solid)(% Water)(Lb./gal. ; Chlorine PPM ; BTU/lb.  
OTHER SOLID ; 100.0 ; 8.000 ; .0 ; .0
- 6. Generation rates in kilograms.  
Monthly maximum ; Annual average ; Max. amount stored ; Max. days stored  
97 193 ; 97 193 ; 97 193 ; 90
- 7. DOT shipping name FLAMMABLE CORROSIVE SOLID, NOS  
DOT hazard class ; DOT ID code  
FLAMMABLE SOLID 2925
- 8. Describe generation process.  
WASTE LABORATORY CHEMICALS.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

  

Amount Handled by site	TSDf handling/Waste management methods
A : OFFSITE:	IN
B : ONSITE:	Y
C : ONSITE:	Y
D : ONSITE:	Y

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a( )
  - b. In process recycling. b( )
  - c. Equipment/technology modification c( )
  - d. Substituting raw materials d( )
  - e. Improved operations. e( )
  - f. No effort. f(X)
- g. Other - explain below: g( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c(X) ; Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
FLAMMABLE CORROSIVE SOLIDS LAB PACK

Waste stream ID  
127

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents.  
A VARIOUS LABORATORY CHEMICALS

% Weight

: lower : upper  
100 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE ; EPA ID CODE TNO 89-009-0004
- 2. Waste name: FLAMMABLE SOLIDS LAB PACK ; Waste stream ID 128
- 3. Give years waste generated: 1989- ; Date stopped: /00/00 ; Frequency of generation: VARIOUS
- 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) ; EPA waste codes ; SIC CODES: A ; ID001, D003 ; 2819
- 5. Physical form: OTHER SOLID ; % Solid: 100.0 ; % Water: ; Lb./gal.: 8.500 ; Chlorine PPM: 0 ; BTU/lb.: 0
- 6. Generation rates in kilograms. Monthly maximum: 317 904 ; Annual average: 317 904 ; Max. amount stored: 317 904 ; Max. days stored: 90
- 7. DOT shipping name: FLAMMABLE SOLIDS, NOS ; DOT hazard class: FLAMMABLE LIQUID ; DOT ID code: 1325
- 8. Describe generation process: WASTE LABORATORY CHEMICALS.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	54	0	0

Amount Handled by site ; TSDf handling/Waste management methods

A : OFFSITE: 11 kg ; IN: T07  
 B : ONSITE: 11 kg ; Y: SOL, T07  
 C : ONSITE: 32 kg ; Y: SOL  
 D : ONSITE: ; Y:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a( )
  - b. In process recycling. b( )
  - c. Equipment/technology modification c( )
  - d. Substituting raw materials d( )
  - e. Improved operations. e( )
  - f. No effort. f(X)
- g. Other - explain below: g( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c(X) ; Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
FLAMMABLE SOLIDS LAB PACK

Waste stream ID  
128

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents.  
A SULFUR

% Weight

: lower : upper  
100 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. : EPA ID CODE  
UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004
- 2. Waste name. : Waste stream ID  
FLAMMABLE SOLIDS 129
- 3. Give years waste generated : Date stopped : Frequency of generation  
1989- /00/00 VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes : SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)   
CODES: A :D001U223 : 2819
- 5. Physical form : % Solid : % Water : Lb./gal. : Chlorine PPM : BTU/lb.  
OTHER SOLID : 100.0 : 9.000 : 0 : 0
- 6. Generation rates in kilograms.  
Monthly maximum : Annual average : Max. amount stored : Max. days stored  
1,045 ~~695~~ 1,045 ~~695~~ 1,045 ~~695~~ 90
- 7. DOT shipping name : DOT hazard class : DOT ID code  
FLAMMABLE SOLID WASTE, NOS FLAMMABLE SOLID 1325
- 8. Describe generation process.  
WASTE RESINS FROM PLASTIC SHOP.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	5	0	5

Amount Handled by site : TSDF handling/Waste management methods

A : OFFSITE: 0 kg (N)  
 B : ONSITE: 0 kg (Y)  
 C : ONSITE: (Y)  
 D : ONSITE: (Y)

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a( )
  - b. In process recycling. b( )
  - c. Equipment/technology modification c( )
  - d. Substituting raw materials d( )
  - e. Improved operations. e( )
  - f. No effort. f()
- g. Other - explain below: g( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c() : Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
FLAMMABLE SOLIDS

Waste stream ID  
129

12. Chemical Characteristics. | Concentration units. For EP toxic  
pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous constituents.  
A RESINS (VARIOUS)

% Weight

lower | upper  
0 | 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
| Yes No | Yes No | Yes No | Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE EPA ID CODE  
TNO 89-009-0004
- 2. Waste name. FLAMMABLE CORROSIVE LIQUIDS Waste stream ID  
130
- 3. Give years waste generated 1989- Date stopped /00/00 Frequency of generation  
VARIOUS
- 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) EPA waste codes SIC  
CODES: AC D001D002D005 D006 2819
- 5. Physical form LIQUID, OTHER BASED % Solid 10.0 % Water 8.500 Lb./gal. 0 Chlorine PPM BTU/lb. 0
- 6. Generation rates in kilograms. Monthly maximum 24 750 Annual average 24 750 Max. amount stored 24 100 Max. days stored 90
- 7. DOT shipping name WASTE FLAMMABLE CORROSIVE LIQUID, NOS DOT hazard class FLAMMABLE LIQUID DOT ID code 2925
- 8. Describe generation process. WASTE LABORATORY CHEMICALS.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

Amount Handled by site TSDF handling/Waste management methods

A : OFFSITE: N

B : ONSITE: Y

C : ONSITE: Y

D : ONSITE: Y

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
    - a. Reformulation/redesign of product
    - b. In process recycling
    - c. Equipment/technology modification
    - d. Substituting raw materials
    - e. Improved operations
    - f. No effort
  - g. Other - explain below:
  - 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
    - a. more toxic-a
    - b. less toxic-b
    - c. No change-c
- Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
FLAMMABLE CORROSIVE LIQUIDS

Waste stream ID  
130

12. Chemical Characteristics. | Concentration units. For EP toxic  
pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous constituents.

% Volume

	lower	upper
A ETHANOL	0	95
B POTASSIUM HYDROXIDE	0	5

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd	Complete?		Test results?		Reasonable?		Follow-up		Initials
	Yes	No	Yes	No	Yes	No	Yes	No	

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
 Small generator (3); Resource recovery (4); 6 Y  
 Partial exemption (5); Hazardous (6);  
 Accidental (7); No longer generated (8); Variance granted (9); Condi-  
 tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. EPA ID CODE  
UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004
- 2. Waste name. Waste stream ID  
OXIDIZING SOLIDS (SUBSTANCE MATERIAL) 131
- 3. Give years waste generated | Date stopped | Frequency of generation  
1989- | /00/00 | VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes | SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: ~~AE~~ | D003D001 | 2819
- 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.  
OTHER SOLID | 100.0 | | 9.000 | .0 | .0
- 6. Generation rates in kilograms.  
Monthly maximum | Annual average | Max. amount stored | Max. days stored  
9 ±± | 9 ±± | 9 ±± | 90
- 7. DOT shipping name | DOT hazard class | DOT ID code  
WASTE OXIDIZING MATERIAL | OXIDIZER | 1479
- 8. Describe generation process.  
MATERIAL WAS DISCOVERED DURING LABORATORY CLEAN UP.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	6	0	0

Amount Handled by site	TSDf handling/Waste management methods
A : OFFSITE:	IN:
B : ONSITE: 6 kg	Y: SOI
C : ONSITE:	Y:
D : ONSITE:	Y:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a( )
  - b. In process recycling. b( )
  - c. Equipment/technology modification c( )
  - d. Substituting raw materials d( )
  - e. Improved operations. e( )
  - f. No effort. f(X)
- g. Other - explain below: g( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c(X) : Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
OXIDIZING SOLIDS (SUBSTANCE MATERIAL)

Waste stream ID  
131

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents.

Sodium Dioxide

% Weight

: lower : upper  
100 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.

SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name: UNITED STATES DEPT OF ENERGY K-25 SITE  
EPA ID CODE: TNO 89-009-0004
2. Waste name: WASTE COMPRESSED GAS NONFLAMMABLE NOS  
Waste stream ID: 132
3. Give years waste generated: 1989-  
Date stopped: /00/00  
Frequency of generation: VARIOUS
4. Mark all appropriate hazard criteria below. (EPA waste codes: D002, D003; SIC: 2819)  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: CE~~X~~
5. Physical form: GAS  
% Solid: 01; % Water: 000; Lb./gal.: 0; Chlorine PPM: 0; BTU/lb.: 0
6. Generation rates in kilograms.  
Monthly maximum: 15 ±; Annual average: 7; Max. amount stored: 15 ±; Max. days stored: 90
7. DOT shipping name: COMPRESSED GAS, NONFLAMMABLE, NOS  
DOT hazard class: Nonflammable Gas; DOT ID code: 1956
8. Describe generation process: MATERIAL WAS DISCOVERED DURING CLEAN UP OF LABORATORY AND PROCESS AREAS.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	13	0	0

Amount Handled by site	TSDF handling/Waste management methods
A : OFFSITE:	IN:
B : ONSITE: 13 kg	Y: S01
C : ONSITE:	Y:
D : ONSITE:	Y:

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
 

a. Reformulation/redesign of product	a( )	d. Substituting raw materials	d( )
b. In process recycling	b( )	e. Improved operations	e( )
c. Equipment/technology modification	c( )	f. No effort	f(X)
- g. Other - explain below: g( )
11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
 

a. more toxic	-a( )	b. less toxic	-b( )	c. No change	-c(X)	: Amt of Reduction (kg)
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Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
WASTE COMPRESSED GAS NONFLAMMABLE NOS

Waste stream ID  
132

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents. % Volume : lower : upper  
Hydrogenated Gas Products 0 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. EPA ID CODE  
UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004
- 2. Waste name. Waste stream ID  
TSCA AND IWS SLUDGE 133
- 3. Give years waste generated Date stopped Frequency of generation  
1989- /00/00 VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes) (SIC)  
Ignitable (a), EP toxic (b) Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: F F001F002F003 2819  
F006F008D008
- 5. Physical form % Solid % Water Lb./gal. Chlorine PPM BTU/lb.  
OTHER SOLID 90.0 8.000 0 0
- 6. Generation rates in kilograms.  
Monthly maximum Annual average Max. amount stored Max. days stored  
3,000 ~~26,873~~ 23,311 ~~26,873~~ 3,000 90
- 7. DOT shipping name DOT hazard class DOT ID code  
HAZARDOUS WASTE SOLID, NOS O R M - E 9189
- 8. Describe generation process.  
TREATMENT OF WASTE WATERS FROM OPERATING THE TSCA INCINERATOR. THIS IS A MIXED WASTE.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	19,749	0	0

Amount Handled by site TSDF handling/Waste management methods

- A : OFFSITE: (N)
- B : ONSITE: 19,749 kg (Y) SOL
- C : ONSITE: (Y)
- D : ONSITE: (Y)

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product
  - b. In process recycling
  - c. Equipment/technology modification
  - d. Substituting raw materials
  - e. Improved operations
  - f. No effort
  - g. Other - explain below:

- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-
  - b. less toxic-
  - c. No change- Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
TSCA AND IWS SLUDGE

Waste stream ID  
133

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents.

A SPENT SOLVENTS (VARIOUS)

B WASTE WATERS FROM TSCA INCINERATOR AFTER TREATMENT AT ~~GE~~ 95  
CNF

% Volume

: lower : upper  
0 100 :  
100 :

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.

SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); R Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

- 1. Organization's name. EPA ID CODE  
TNO 89-009-0004  
UNITED STATES DEPT OF ENERGY K-25 SITE
- 2. Waste name. Waste stream ID  
134  
LAUNDRY SLUDGE
- 3. Give years waste generated : Date stopped : Frequency of generation  
1989- /00/00 VARIOUS
- 4. Mark all appropriate hazard criteria below. (EPA waste codes : SIC  
Ignitable (a), EP toxic (b), Corrosive (c),  
Reactive (e), Other toxic (f)  
CODES: B :D007D008 : 2819
- 5. Physical form : % Solid : % Water : Lb./gal. : Chlorine PPM : BTU/lb.  
OTHER SOLID : 75.0 : 8.500 : 0 : 0
- 6. Generation rates in kilograms.  
Monthly maximum : Annual average : Max. amount stored : Max. days stored  
2,500 2,046 ~~2,500~~ 2,500 ~~4,500~~ 90
- 7. DOT shipping name : DOT hazard class : DOT ID code  
HAZARDOUS WASTE SOLID, NOS O R M - E 9189
- 8. Describe generation process.  
SLUDGE GENERATED FROM TREATMENT OF LAUNDRY FACILITY WASTE WATERS.

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	2,318	0	0

Amount Handled by site : TSDf handling/Waste management methods

A : OFFSITE: :N:  
 B : ONSITE: 2,318 kg :Y: S01  
 C : ONSITE: :Y:  
 D : ONSITE: :Y:

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
  - a. Reformulation/redesign of product a( )
  - b. In process recycling. . . . . b( )
  - c. Equipment/technology modification c( )
  - d. Substituting raw materials d( )
  - e. Improved operations. . . . . e( )
  - f. No effort. . . . . f(X)
  - g. Other - explain below: . . . . . g( )
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
  - a. more toxic-a( )
  - b. less toxic-b( )
  - c. No change-c(X) : Amt of Reduction (kg)

Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
LAUNDRY SLUDGE

Waste stream ID  
134

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

Major and hazardous constituents.  
A LEAD

PPM

lower : upper  
0 5

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological wastse (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name. EPA ID CODE  
 UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004
  2. Waste name. Waste stream ID  
 CADMIUM COATED CYLINDERS 135
  3. Give years waste generated Date stopped Frequency of generation  
 1989- /00/00 VARIOUS
  4. Mark all appropriate hazard criteria below. EPA waste codes SIC  
 Ignitable (a), EP toxic (b), Corrosive (c),  
 Reactive (e), Other toxic (f)  
 CODES:  B D006 2819
  5. Physical form % Solid % Water Lb./gal. Chlorine PPM BTU/lb.  
 OTHER SOLID 100.0  .000 .0 .0
  6. Generation rates in kilograms.  
 Monthly maximum Annual average Max. amount stored Max. days stored  
70 24 70 24 70 24 90
  7. DOT shipping name DOT hazard class DOT ID code  
 HAZARDOUS WASTE SOLID, NOS O R M - E 9189
  8. Describe generation process.  
 DISCARDED, EMPTY, COMPRESSED UF6 CYLINDERS (MIXED WASTE).
- \*\* ANNUAL REPORT SECTION \*\* LINES 9-11
- |    |        |                  |                   |                   |
|----|--------|------------------|-------------------|-------------------|
| 9. | Report | Amount generated | Amount on site on | Amount on site on |
|    | Year   | during year (kg) | first day (kg)    | last day (kg)     |
|    | 1990   | 0                | 0                 | 0                 |
- |   |   |
|---|---|
| Amount Handled by site<br>A : OFFSITE: <input type="checkbox"/> N<br>B : ONSITE: <input type="checkbox"/> Y<br>C : ONSITE: <input type="checkbox"/> Y<br>D : ONSITE: <input type="checkbox"/> Y | TSDF handling/Waste<br>management methods |
|---|---|
10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
 

a. Reformulation/redesign of product <input type="checkbox"/>	d. Substituting raw materials <input type="checkbox"/>
b. In process recycling <input type="checkbox"/>	e. Improved operations <input type="checkbox"/>
c. Equipment/technology modification <input type="checkbox"/>	f. No effort <input checked="" type="checkbox"/>
  - g. Other - explain below:  g( )
  11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
 

a. more toxic-a( )	b. less toxic-b( )	c. No change-c( <input checked="" type="checkbox"/> )	Amt of Reduction (kg)
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Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
CADMIUM COATED CYLINDERS

Waste stream ID  
135

12. Chemical Characteristics. | Concentration units. For EP toxic  
pH | Flash point | Reactive code | wastes, indicate PPM.  
PPM

Major and hazardous constituents. | lower | upper  
A CADMIUM | 0 | 100 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.  
SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
| Yes No | Yes No | Yes No | Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); R Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

Hazardous Waste Stream Report - Front

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

1. Organization's name. EPA ID CODE  
 UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004
2. Waste name. Waste stream ID  
 RESULTING WASTE FROM TREATMENT OF STORED FERNALD 136  
 Waste Stream (F1)
3. Give years waste generated : Date stopped : Frequency of generation  
 1989 /00/00 VARIOUS
4. Mark all appropriate hazard criteria below. (EPA waste codes : SIC  
 Ignitable (a), EP toxic (b), Corrosive (c),  
 Reactive (e), Other toxic (f)  
 CODES: ~~A~~ F002D008 : 2819
5. Physical form : % Solid : % Water : Lb./gal. : Chlorine PPM : BTU/lb.  
 LIQUID, OTHER BASED : 0 : 8.000 : 0 : 0
6. Generation rates in kilograms.  
 Monthly maximum : Annual average : Max. amount stored : Max. days stored  
 0 ~~16,442~~ 0 ~~16,442~~ 0 90
7. DOT shipping name : DOT hazard class : DOT ID code  
 HAZARDOUS WASTE LIQUID, NOS O R M - E 9189
8. Describe generation process.  
 WASTE FROM TREATMENT OF STORED FERNALD WASTE STREAM (F1)^

\*\* ANNUAL REPORT SECTION \*\* LINES 9-11 -----

Report Year	Amount generated during year (kg)	Amount on site on first day (kg)	Amount on site on last day (kg)
1990	0	0	0

Amount Handled by site	TSDf handling/Waste management methods
A : OFFSITE:	IN:
B : ONSITE:	Y:
C : ONSITE:	Y:
D : ONSITE:	Y:

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
 

a. Reformulation/redesign of product	a ( )	d. Substituting raw materials	d ( )
b. In process recycling	b ( )	e. Improved operations	e ( )
c. Equipment/technology modification	c ( )	f. No effort	f (X)
- g. Other - explain below: g ( )
11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
 

a. more toxic-a ( )	b. less toxic-b ( )	c. No change-c (X)	: Amt of Reduction (kg)
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Date: 02/91

Hazardous Waste Stream Report - Back

DEC 13, 1990

Mark changes on this form. Full instructions are given with Form PH-2022.

Organization's name.  
UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE  
TNO 89-009-0004

Waste name.  
RESULTING WASTE FROM TREATMENT OF STORED FERNALD  
Waste Stream (F1)

Waste stream ID  
136

12. Chemical Characteristics. : Concentration units. For EP toxic  
pH : Flash point: Reactive code : wastes, indicate PPM.

% Volume

Major and hazardous constituents.  
A CONTAMINATED WASTE OILS

: lower : upper  
95 100 :

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.

SIGNATURE: (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up Initials  
: Yes No : Yes No : Yes No : Yes No

Status: Not hazardous (1); Demonstrated not hazardous (2); Status Report  
Small generator (3); Resource recovery (4); 6 Y  
Partial exemption (5); Hazardous (6);  
Accidental (7); No longer generated (8); Variance granted (9); Condi-  
tionally exempt (A); Mixed radiological waste (R); Corrective action (C).

18. Comments.

Date: 02/91

# Hazardous Waste Stream Report

Tennessee Department of Health and Environment, Division of Solid Waste Management.  
 Customs House - Fourth Floor, 701 Broadway, Nashville, TN 37219-5403

1. Organization's full name at facility. <u>United States Department of Energy K-25 Site</u>		EPA identification code <u>TN0 89-009-0004</u>
2. Waste name. Use standard name from regulations whenever possible. <u>Waste ORM-A (Lab Packs)</u>		Waste Stream number <u>137</u>
3. Give the years that this waste has been generated, e.g. 1975, 1982- <u>1989-</u>	Date no longer generated. (MM/DD/YY)	Frequency of generation Continuous    Accidental/One time <u>Various</u>
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)	EPA waste codes. (Primary first) <u>U0MX, F003, D007</u>	SIC code for generating process. <u>2819</u>
5. Physical form <u>Liquid, other based</u>	Percent solid %    water % Vol. to wt. conversion (pounds per gallon)	If used for fuel, chlorine content PPM    BTU per pound /lb.
6. Generation rates. Supply all rates in kilograms. Monthly maximum    Annual average	Maximum amount stored on-site (kg)	Maximum days stored
<u>350</u> (kg) <u>350</u> (kg)	<u>350</u> (kg)	<u>90</u>
7. DOT shipping name <u>Waste ORM-A, NOS</u>	DOT hazard class <u>ORM-A</u>	DOT ID code <u>1693</u>
8. Describe generation process. <u>Waste process chemicals.</u>		

\*\*\* ANNUAL REPORT SECTION \*\*\* Complete at end of each calendar year. Continue waste stream description report with line 12 on the back.

9. Report annual generation and handling data. If the waste was shipped off-site, summarize in block (a) and submit an Offsite Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that require interim status or a permit, use "T", "S", or "D" codes from the instructions. For other onsite handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site on first day of year (kg)	Amount on-site on last day of year (kg)
<u>1990</u>	<u>350</u>	<u>0</u>	<u>0</u>
<u>Total Handled Offsite</u>		<u>Total Handled Onsite</u>	
a	<u>93 kg</u> IN	b	<u>13 kg</u> Y
TSOR handling/Waste management methods <u>T07, T39, D81</u>		TSOR handling/Waste management methods <u>S01, T07, T39, D81</u>	
<u>Amount Handled Onsite</u>		<u>Amount Handled Onsite</u>	
c	<u>244 kg</u> Y	d	Y
TSOR handling/Waste management methods <u>S01</u>		TSOR handling/Waste management methods	

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. This reduction refers to generation processes and not treatment methods.

a. Reformulation/redesign of product . . . . . a ( )	d. Substituting raw materials . . . . . d ( )
b. In process recycling . . . . . b ( )	e. Improved operations . . . . . e ( )
c. Equipment/technology modification . . . . . c ( )	f. No effort . . . . . f (X)
g. Other - explain below: . . . . . g ( )	

11. Describe changes in volume and toxicity that those reduction efforts described in line 10 produced last year compared to the previous year. Amount of Reduction (kg)

a. Increased toxicity-a ( ) . b. decreased toxicity-b ( ) . c. No change-c (X)

Date: 02/91

12. Chemical Characteristics.		Concentration units. For EP toxic wastes, indicate PPM. % volume(X), % weight( ), PPM( )	
pH	Flash point	Reactive code	
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.	Off-specification <sup>toxic</sup> chemicals	99	100
b.			
c.			
d.			
e.			

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

14. Describe storage, treatment, and disposal methods using codes in the instructions.			
Location	Treatment codes	Storage codes	Disposal codes
On-site:		SO1	
Off-site:	T07, T39		DB1

15. Identify transporters, TSDR operators and recyclers involved in handling this waste.		EPA identification code
Name and address		
Rollins Environmental Services (LA) Inc., Baton Rouge, LA 70807		LAD010395127
Custom Environmental Transport, Baker, LA 70704-0507		LAD981059017

16. Certification: I certify that this information is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:

\*\*\* Below is for Department use only. \*\*\*\*\*

17. Date received (MM/DD/YY)	Complete?	Test results?	Reasonable?	Follow up	Initials
	Yes No	Yes No	Yes No	Yes No	
Status: Not hazardous (1); Demonstrated not hazardous (2); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastes (R), and Corrective Action (C).					Status Further Reporting Y N

18. Comments.

Date: 02/91

## Hazardous Waste Stream Report

Tennessee Department of Health and Environment, Division of Solid Waste Management.  
 Customs House - Fourth Floor, 701 Broadway, Nashville, TN 37219-5403

1. Organization's full name at facility. <b>United States Department of Energy K-25 Site</b>		EPA identification code <b>TN0 89-009-0004</b>
2. Waste name. Use standard name from regulations whenever possible. <b>Flammable Liquids (Bulk)</b>		Waste Stream number <b>138</b>
3. Give the years that this waste has been generated, e.g. 1975, 1982-. <b>1990</b>	Date no longer generated. (MM/DD/YY)	Frequency of generation Continuous <input type="checkbox"/> Accidental/One time <input type="checkbox"/> <b>Varic</b> <input checked="" type="checkbox"/>
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f).	EPA waste codes. (Primary first) <b>D001, D002, D0MX</b>	SIC code for generating process. <b>2819</b>
5. Physical form <b>Liquid, other based</b>	Percent solid % <b></b>	Vol. to wt. conversion (pounds per gallon) <b></b>
		If used for fuel, chlorine content PPM <b></b>
		BTU per pound /lb. <b></b>
6. Generation rates. Supply all rates in kilograms. Monthly maximum <b>2,000 (kg)</b>	Annual average <b>14,342 (kg)</b>	Maximum amount stored on-site (kg) <b>2,000 (kg)</b>
		Maximum days stored <b>90</b>
7. DOT shipping name <b>Waste Flammable Liquid, NOS</b>	DOT hazard class <b>Flammable Liquid</b>	DOT ID code <b>1993</b>

8. Describe generation process.  
**Flammable liquid wastes generated during plant operations.**

\*\*\* ANNUAL REPORT SECTION \*\*\* Complete at end of each calendar year. Continue waste stream description report with line 12 on the back.

9. Report annual generation and handling data. If the waste was shipped off-site, summarize in block (a) and submit an Offsite Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that require interim status or a permit, use "T", "S", or "D" codes from the instructions. For other onsite handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site on first day of year (kg)	Amount on-site on last day of year (kg)
1990	14,342	0	0
<b>Total Handled Offsite</b>		<b>Total Handled Onsite</b>	
a	259 kg	TSDR handling/Waste management methods N T06	b
			772 kg
			TSDR handling/Waste management methods Y S01, T06
c	13,311 kg	TSDR handling/Waste management methods Y S01-S02	d
			Y

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. This reduction refers to generation processes and not treatment methods.

a. Reformulation/redesign of product . . . . . a ( )	d. Substituting raw materials . . . . . d ( )
b. In process recycling . . . . . b ( )	e. Improved operations . . . . . e ( )
c. Equipment/technology modification . . . . . c ( )	f. No effort . . . . . f (X)
g. Other - explain below: . . . . . g ( )	

11. Describe changes in volume and toxicity that those reduction efforts described in line 10 produced last year compared to the previous year. Amount of Reduction (kg)

a. Increased toxicity-a ( ) . b. decreased toxicity-b ( ) . c. No change-c (X)

Date: 02/91

12. Chemical Characteristics.			
pH	Flash point < 140 °F	Reactive code	Concentration units. For EP toxic wastes, indicate PPM. % volume( ), % weight( ), PPM( )
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.			
b.			
c.			
d.			
e.			

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

14. Describe storage, treatment, and disposal methods using codes in the instructions.			
Location	Treatment codes	Storage codes	Disposal codes
On-site:		S01, S02	
Off-site:	T06		

15. Identify transporters, TSDR operators and recyclers involved in handling this waste.		
Name and address	EPA identification code	
Rollins Environmental Services(LA), Inc., Baton Rouge, LA 70807	LAD010395127	
Custom Environmental Transport, Baker, LA 70704-0507	LAD981059017	

16. Certification: I certify that this information is true, accurate and complete.		
SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:

\*\*\* Below is for Department use only. \*\*\*\*\*

17. Date received (MM/DD/YY)	Complete?	Test results?	Reasonable?	Follow up	Initials
	Yes No	Yes No	Yes No	Yes No	

Status: Not hazardous (1); Demonstrated not hazardous (2); Resource recovery (4); Status Further Reporting  
Partial exemption (5); Hazardous (6); Accidental (7);  
No longer generated (8); Variance granted (9); Conditionally exempt (A);  
Mixed radiological wastes (R), and Corrective Action (C). Y N

18. Comments.

Date: 02/91

## Hazardous Waste Stream Report

Tennessee Department of Health and Environment, Division of Solid Waste Management.  
 Customs House - Fourth Floor, 701 Broadway, Nashville, TN 37219-5403

1. Organization's full name at facility. <b>United States Department of Energy K-25 Site</b>		EPA identification code <b>TN0 89-009-0004</b>
2. Waste name. Use standard name from regulations whenever possible. <b>Combustible Liquids (Bulk)</b>		Waste Stream number <b>139</b>
3. Give the years that this waste has been generated, e.g. 1975, 1982- <b>1990</b>	Date no longer generated. (MM/DD/YY)	Frequency of generation Continuous <input type="checkbox"/> Accidental/One time <input checked="" type="checkbox"/> <b>(Vari)</b>
4. Circle all appropriate hazard criteria below. Ignitable <b>(a)</b> , EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f).	EPA waste codes. (Primary first) <b>D001</b>	SIC code for generating process. <b>2819</b>
5. Physical form <b>Liquid, other based</b>	Percent solid % <b>%</b>	Vol. to wt. conversion (pounds per gallon) <b>%</b>
		If used for fuel, chlorine content PPM <b>BTU per pound /lb.</b>
6. Generation rates. Supply all rates in kilograms. Monthly maximum <b>728 (kg)</b>	Annual average <b>728 (kg)</b>	Maximum amount stored on-site <b>728 (kg)</b>
		Maximum days stored <b>90</b>
7. DOT shipping name <b>Waste Combustible Liquid, NOS</b>	DOT hazard class <b>Combustible Liquid</b>	DOT ID code <b>1993</b>
8. Describe generation process. <b>Waste Combustible liquids, with flash points between 100° and 140°F, generated during plant operations.</b>		

\*\*\* ANNUAL REPORT SECTION \*\*\* Complete at end of each calendar year. Continue waste stream description report with line 12 on the back.

9. Report annual generation and handling data. If the waste was shipped off-site, summarize in block (a) and submit an Offsite Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that require interim status or a permit, use "T", "S", or "D" codes from the instructions. For other onsite handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site on first day of year (kg)	Amount on-site on last day of year (kg)
1990	728	0	0
Total Handled Offsite		TSDR handling/Waste management methods	Amount Handled Onsite
a	N		Y
			728 kg
			Y
			S01-S02
Amount Handled Onsite		TSDR handling/Waste management methods	Amount Handled Onsite
c	Y		Y
			Y

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. This reduction refers to generation processes and not treatment methods.

a. Reformulation/redesign of product . . . . . a ( )	d. Substituting raw materials . . . . . d ( )
b. In process recycling . . . . . b ( )	e. Improved operations . . . . . e ( )
c. Equipment/technology modification . . . . . c ( )	f. No effort . . . . . f (X)
g. Other - explain below: . . . . . g ( )	

11. Describe changes in volume and toxicity that those reduction efforts described in line 10 produced last year compared to the previous year.

Amount of Reduction (kg)

a. Increased toxicity-a ( ) . b. decreased toxicity-b ( ) . c. No change-c (X)

Date: 02/91

12. Chemical Characteristics.		Concentration units. For EP toxic wastes, indicate PPM. % volume( ), % weight( ), PPM( )	
pH	Flash point	Reactive code	
	>100°F, <140°F		
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.			
b.			
c.			
d.			
e.			

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

14. Describe storage, treatment, and disposal methods using codes in the instructions.			
Location	Treatment codes	Storage codes	Disposal codes
On-site:		S01, S02	
Off-site:			

15. Identify transporters, TSDR operators and recyclers involved in handling this waste.		EPA identification code
Name and address		
N/A		

16. Certification: I certify that this information is true, accurate and complete.		
SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:

\*\*\* Below is for Department use only. \*\*\*\*\*

17. Date received (MM/DD/YY)	Complete?	Test results?	Reasonable?	Follow up	Initials
	Yes No	Yes No	Yes No	Yes No	
Status: Not hazardous (1); Demonstrated not hazardous (2); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastes (R), and Corrective Action (C).					Status Further Reporting
					Y N

18. Comments.

Date: 02/91

## Hazardous Waste Stream Report

Tennessee Department of Health and Environment, Division of Solid Waste Management.  
 Customs House - Fourth Floor, 701 Broadway, Nashville, TN 37219-5403

1. Organization's full name at facility. <b>United States Department of Energy K-25 Site</b>		EPA identification code <b>TNO 89-009-0004</b>
2. Waste name. Use standard name from regulations whenever possible. <b>Hazardous Waste Solid (Lab Packs)</b>		Waste Stream number <b>140</b>
3. Give the years that this waste has been generated, e.g. 1975, 1982- <b>1989-</b>	Date no longer generated. (MM/DD/YY)	Frequency of generation Continuous    Accidental/One time <b>(Vario)</b>
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)		EPA waste codes. (Primary first)    SIC code for generating process. <b>POMX, UOMX, DOMX</b> <b>2819</b>
5. Physical form <b>Other solid</b>	Percent solid    water %    %	Vol. to wt. conversion (pounds per gallon)
		If used for fuel. chlorine content    BTU per pound PPM    /lb.
6. Generation rates. Supply all rates in kilograms. Monthly maximum    Annual average		Maximum amount stored on-site    Maximum days stored
<b>411</b> (kg)	<b>411</b> (kg)	<b>411</b> (kg) <b>90</b>
7. DOT shipping name <b>Hazardous Waste Solid, NOS</b>	DOT hazard class <b>ORM-E</b>	DOT ID code <b>9189</b>

8. Describe generation process.  
**Miscellaneous small quantity solids contaminated with hazardous materials.**

\*\*\* ANNUAL REPORT SECTION \*\*\* Complete at end of each calendar year. Continue waste stream description report with line 12 on the back.

9. Report annual generation and handling data. If the waste was shipped off-site, summarize in block (a) and submit an Offsite Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that require interim status or a permit, use "T", "S", or "D" codes from the instructions. For other onsite handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site on first day of year (kg)	Amount on-site on last day of year (kg)
<b>1990</b>	<b>411</b>	<b>0</b>	<b>1</b>
Total Handled Offsite a <b>NI</b>		Amount Handled Onsite b <b>45 kg</b>	
Amount Handled Onsite c <b>365 kg</b>		Amount Handled Onsite d <b>Y</b>	
TSDR handling/Waste management methods <b>NI</b>		TSDR handling/Waste management methods <b>SO1, T07, T31, D81</b>	
TSDR handling/Waste management methods <b>Y</b> <b>SO1</b>		TSDR handling/Waste management methods <b>Y</b>	

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. This reduction refers to generation processes and not treatment methods.

a. Reformulation/redesign of product . . . . . a( )	d. Substituting raw materials . . . . . d( )
b. In process recycling . . . . . b( )	e. Improved operations . . . . . e( )
c. Equipment/technology modification . . . . . c( )	f. No effort . . . . . f( <input checked="" type="checkbox"/> )
g. Other - explain below: . . . . . g( )	

11. Describe changes in volume and toxicity that those reduction efforts described in line 10 produced last year compared to the previous year.    Amount of Reduction (kg)

a. Increased toxicity-a( ) . b. decreased toxicity-b( ) . c. No change-c() .

Date: 02/91

12. Chemical Characteristics.			Concentration units. For EP toxic wastes, indicate PPM. % volume( ), % weight( ), PPM(X)	
pH	Flash point	Reactive code		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a.	Lead		5	20
b.	Silver		5	20
c.	Cadmium		1	20
d.	Chromium		5	20
e.				

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

14. Describe storage, treatment, and disposal methods using codes in the instructions.			
Location	Treatment codes	Storage codes	Disposal codes
On-site:		S01	
Off-site:	T07, T31		D81

15. Identify transporters, TSDR operators and recyclers involved in handling this waste.	
Name and address	EPA identification code
Rollins Environmental Services (LA), Inc., Baton Rouge, LA 70807	LAD010395127
Custom Environmental Transport, Baker, LA 70704 - 0507	LAD981059017

16. Certification: I certify that this information is true, accurate and complete.  
 SIGNATURE: (Generator or authorized representative) TITLE: DATE:

\*\*\* Below is for Department use only. \*\*\*\*\*

17. Date received (MM/DD/YY)	Complete?		Test results?		Reasonable?		Follow up		Initials
	Yes	No	Yes	No	Yes	No	Yes	No	
Status: Not hazardous (1); Demonstrated not hazardous (2); Resource recovery (4); Status Further Reporting Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Y N Mixed radiological wastes (R), and Corrective Action (C).									

18. Comments.

Date: 02/91

# Hazardous Waste Stream Report

Tennessee Department of Health and Environment, Division of Solid Waste Management.  
Customs House - Fourth Floor, 701 Broadway, Nashville, TN 37219-5403

1. Organization's full name at facility. United States Department of Energy K-25 Site		EPA identification code TNO 89-009-0004
2. Waste name. Use standard name from regulations whenever possible. Waste ORM-A (Bulk)		Waste Stream number 141
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1989-	Date no longer generated. (MM/DD/YY)	Frequency of generation Continuous <input type="checkbox"/> Accidental/One time <input type="checkbox"/> <u>Vario</u>
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)	EPA waste codes. (Primary first) F002	SIC code for generating process. 2819
5. Physical form Liquid, other based	Percent solid % water % Vol. to wt. conversion (pounds per gallon)	If used for fuel, chlorine content PPM BTU per pound /lb.
6. Generation rates. Supply all rates in kilograms. Monthly maximum 72 (kg)	Annual average 72 (kg)	Maximum amount stored on-site 72 (kg) Maximum days stored 90
7. DOT shipping name Waste ORM-A, NOS	DOT hazard class ORM-A	DOT ID code 1693

8. Describe generation process.

Freon wastes generated from plant operations.

\*\*\* ANNUAL REPORT SECTION \*\*\* Complete at end of each calendar year. Continue waste stream description report with line 12 on the back.

9. Report annual generation and handling data. If the waste was shipped off-site, summarize in block (a) and submit an Offsite Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that require interim status or a permit, use "T", "S", or "D" codes from the instructions. For other onsite handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site on first day of year (kg)	Amount on-site on last day of year (kg)
1990	0	0	0
Total Handled <u>Offsite</u>		Amount Handled <u>Onsite</u>	
a	(N)	b	(Y)
Amount Handled <u>Onsite</u>		Amount Handled <u>Onsite</u>	
c	(Y)	d	(Y)

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. This reduction refers to generation processes and not treatment methods.

- a. Reformulation/redesign of product . . . . . a ( )
- b. In process recycling . . . . . b ( )
- c. Equipment/technology modification . . . . . c ( )
- d. Substituting raw materials . . . . . d ( )
- e. Improved operations . . . . . e ( )
- f. No effort . . . . . f (X)
- g. Other - explain below: . . . . . g ( )

11. Describe changes in volume and toxicity that those reduction efforts described in line 10 produced last year compared to the previous year.

- a. Increased toxicity-a ( )
- b. decreased toxicity-b ( )
- c. No change-c (X)

Date: 02/91

12. Chemical Characteristics.		Concentration units. For EP toxic wastes, indicate PPM. % volume(X), % weight( ), PPM( )	
pH	Flash point	Reactive code	
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.	Freon	75	100.
b.			
c.			
d.			
e.			

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

14. Describe storage, treatment, and disposal methods using codes in the instructions.			
Location	Treatment codes	Storage codes	Disposal codes
On-site:		S01	
Off-site:	T06		

15. Identify transporters, TSDR operators and recyclers involved in handling this waste.		EPA identification code
Name and address		
Rollins Environmental Services (LA), Inc., Baton Rouge, LA 70801		LAD010395127
Custom Environmental Transport, Baker, LA 70704-0507		LAD981059017

16. Certification: I certify that this information is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:

\*\*\* Below is for Department use only. \*\*\*\*\*

17. Date received (MM/DD/YY)	Complete?	Test results?	Reasonable?	Follow up	Initials
	Yes No	Yes No	Yes No	Yes No	
Status: Not hazardous (1); Demonstrated not hazardous (2); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastes (R), and Corrective Action (C).					Status Further Reporting
					Y N

18. Comments.

Date: 02/91

# Hazardous Waste Stream Report

Tennessee Department of Health and Environment, Division of Solid Waste Management.  
Customs House - Fourth Floor, 701 Broadway, Nashville, TN 37219-5403

1. Organization's full name at facility. United States Department of Energy K-25 Site		EPA identification code TNO 89-009-0004
2. Waste name. Use standard name from regulations whenever possible. Corrosive Liquids (Bulk)		Waste Stream number 142
3. Give the years that this waste has been generated. e.g. 1975, 1982- 1989-	Date no longer generated. (MM/DD/YY)	Frequency of generation Continuous <input type="checkbox"/> Accidental/One time <input type="checkbox"/> <b>Variable</b> <input checked="" type="checkbox"/>
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f).	EPA waste codes. (Primary first) D001, D002, D007, D009	SIC code for generating process. 2819
5. Physical form Liquid, water based	Percent solid % water %	Vol. to wt. conversion (pounds per gallon)
		If used for fuel, chlorine content PPM
		BTU per pound /lb.
6. Generation rates. Supply all rates in kilograms. Monthly maximum 2,500 (kg)	Annual average 20,537 (kg)	Maximum amount stored on-site 2,500 (kg)
		Maximum days stored 90
7. DOT shipping name Waste Corrosive Liquid, NOS	DOT hazard class Corrosive Material	DOT ID code 1760
8. Describe generation process. Large quantity waste corrosive liquids generated during plant operations.		

\*\*\* ANNUAL REPORT SECTION \*\*\* Complete at end of each calendar year. Continue waste stream description report with line 12 on the back.

9. Report annual generation and handling data. If the waste was shipped off-site, summarize in block (a) and submit an Offsite Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that require interim status or a permit, use "T", "S", or "D" codes from the instructions. For other onsite handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site on first day of year (kg)	Amount on-site on last day of year (kg)
1990	20,537	0	0

  

Total Handled <u>Off</u> site	TSDR handling/Waste management methods	Amount Handled <u>On</u> site	TSDR handling/Waste management methods
a	N	b 12,484 kg	Y S01
Amount Handled <u>On</u> site	TSDR handling/Waste management methods	Amount Handled <u>On</u> site	TSDR handling/Waste management methods
c 8,053 kg	Y T31, T23, T40	d	Y

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. This reduction refers to generation processes and not treatment methods.

a. Reformulation/redesign of product . . . . . a ( )	d. Substituting raw materials . . . . . d ( )
b. In process recycling . . . . . b ( )	e. Improved operations . . . . . e ( )
c. Equipment/technology modification . . . . . c ( )	f. No effort . . . . . f (X)
g. Other - explain below: . . . . . g ( )	

11. Describe changes in volume and toxicity that those reduction efforts described in line 10 produced last year compared to the previous year. Amount of Reduction (kg)

a. Increased toxicity-a ( ). b. decreased toxicity-b ( ). c. No change-c (X).

Date: 02/91

12. Chemical Characteristics.		Flash point	Reactive code	Concentration units. For EP toxic wastes, indicate PPM. % volume( ), % weight( ), PPM( )
pH	> 12.5			
Major and hazardous constituents. Give range of values at right.		lower value	upper value	
a.				
b.				
c.				
d.				
e.				

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

14. Describe storage, treatment, and disposal methods using codes in the instructions.			
Location	Treatment codes	Storage codes	Disposal codes
On-site:	T 31, T23, T40	S01	
Off-site:	T06		

15. Identify transporters, TSDR operators and recyclers involved in handling this waste.		EPA identification code
Name and address		
Rollins Environmental Services (LA), Inc., Baton Rouge, LA 70807		LAD010395127
Custom Environmental Transport, Baker, LA 70704 - 0507		LAD981059017

16. Certification: I certify that this information is true, accurate and complete.		
SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:

\*\*\* Below is for Department use only. \*\*\*\*

17. Date received (MM/DD/YY):	Complete?	Test results?	Reasonable?	Follow up	Initials
	Yes No	Yes No	Yes No	Yes No	
Status: Not hazardous (1); Demonstrated not hazardous (2); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastes (R), and Corrective Action (C).					Status Further Reportin Y N

18. Comments.

Date: 02/91

## Hazardous Waste Stream Report

Tennessee Department of Health and Environment, Division of Solid Waste Management.  
Customs House - Fourth Floor, 701 Broadway, Nashville, TN 37219-5403

1. Organization's full name at facility. <b>United States Department of Energy K-25 Site</b>		EPA identification code <b>TN 089-009-0004</b>	
2. Waste name. Use standard name from regulations whenever possible. <b>Waste ORM-B (Lab Packs)</b>		Waste Stream number <b>143</b>	
3. Give the years that this waste has been generated, e.g. 1975, 1982- <b>1989-</b>	Date no longer generated. (MM/DD/YY)	Frequency of generation Continuous <input type="checkbox"/> Accidental/One time <input checked="" type="checkbox"/> <b>Varic</b>	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic <b>(D)</b> , Corrosive (c), Reactive (e), Other toxic (f).	EPA waste codes. (Primary first) <b>D006</b>	SIC code for generating process. <b>2819</b>	
5. Physical form <b>Other Solid</b>	Percent solid % <b> </b>	Vol. to wt. conversion (pounds per gallon) <b> </b>	If used for fuel, chlorine content PPM <b> </b>
6. Generation rates. Supply all rates in kilograms. Monthly maximum <b>4</b> (kg)	Annual average <b>4</b> (kg)	Maximum amount stored on-site <b>4</b> (kg)	Maximum days stored <b>90</b>
7. DOT shipping name <b>Waste ORM-B, NOS</b>	DOT hazard class <b>ORM-B</b>	DOT ID code <b>1760</b>	
8. Describe generation process. <b>Waste chemicals from laboratory operation.</b>			

\*\*\* ANNUAL REPORT SECTION \*\*\* Complete at end of each calendar year. Continue waste stream description report with line 12 on the back.

9. Report annual generation and handling data. If the waste was shipped off-site, summarize in block (a) and submit an Offsite Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that require interim status or a permit, use "T", "S", or "D" codes from the instructions. For other onsite handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site on first day of year (kg)	Amount on-site on last day of year (kg)
<b>1990</b>	<b>0</b>	<b>0</b>	<b>0</b>
Total Handled <u>Offsite</u>		Total Handled <u>Onsite</u>	
a	N	b	Y
Amount Handled <u>Onsite</u>		Amount Handled <u>Onsite</u>	
c	Y	d	Y

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. This reduction refers to generation processes and not treatment methods.

a. Reformulation/redesign of product . . . . . a ( )  
 b. In process recycling . . . . . b ( )  
 c. Equipment/technology modification . . . . . c ( )  
 d. Substituting raw materials . . . . . d ( )  
 e. Improved operations . . . . . e ( )  
 f. No effort . . . . . f   
 g. Other - explain below: . . . . . g ( )

11. Describe changes in volume and toxicity that those reduction efforts described in line 10 produced last year compared to the previous year.

a. Increased toxicity-a ( ) . b. decreased toxicity-b ( ) . c. No change-c  .

Date: 02/91

12. Chemical Characteristics.		Concentration units. For EP toxic wastes, indicate PPM.	
pH	Flash point	Reactive code	% volume( ), % weight(x), PPM( )
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.	Cadmium fluoride	75	100.
b.			
c.			
d.			
e.			

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

14. Describe storage, treatment, and disposal methods using codes in the instructions.			
Location	Treatment codes	Storage codes	Disposal codes
On-site:		So1	
Off-site:	T07		

15. Identify transporters, TSDR operators and recyclers involved in handling this waste.		EPA identification code
Name and address		
Rollins Environmental Services (LA), Inc., Baton Rouge, LA 70807		LAD010395127
Custom Environmental Transport, Baker, LA 70704-0507		LAD981059017

16. Certification: I certify that this information is true, accurate and complete.

SIGNATURE: (Generator or authorized representative) TITLE: DATE:

\*\*\* Below is for Department use only. \*\*\*\*

17. Date received (MM/DD/YY)	Complete?	Test results?	Reasonable?	Follow up	Initials
	Yes No	Yes No	Yes No	Yes No	
Status: Not hazardous (1); Demonstrated not hazardous (2); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastes (R), and Corrective Action (C).					Status Further Reporting Y N

18. Comments.