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Date: 02/94

K/EM-67

**1993 ANNUAL REPORT OF HAZARDOUS WASTE ACTIVITIES
FOR THE OAK RIDGE K-25 SITE**

EPA ID No. TN0 89 009 0004

DISCLAIMER

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Prepared by the
Environmental Management Division
Oak Ridge K-25 Site
Oak Ridge, Tennessee 37831-7314
managed by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U.S. DEPARTMENT OF ENERGY
under contract DE-AC05-84OR21400

MASTER

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

Date: 02/94

K/EM-67

Tennessee Hazardous Waste Annual Report Transmittal

Tennessee Department of Environment and Conservation, Division of Solid Waste Management
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please supply the information requested below to help us promptly and accurately process your completed annual report and fee forms. Place this form in front of your other forms to be submitted and return to the address shown above.

E

Please complete and return the original to the above address.

TNO 89-009-0004 TN 89-0 Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: LINCOLN E. HALL R.S. EBY
PO BOX 1003
OAK RIDGE, TN 37831-7104

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

HAZARDOUS WASTE FORMS AND TOTALS

HAZARDOUS WASTE FORMS AND TOTALS		Number of Forms	Totals
1.	Hazardous Waste Notification	<u>10</u>	n/a
2.	Waste Stream Reports	<u>89</u>	<u>82,866,938 kg</u> Sum amount generated
3.	Offsite Shipping Report	<u>4</u>	<u>31,210 kg</u> Record total shipped offsite
4.	Generator fee form	<u>1</u>	<u>\$ 900</u> Generator fee Paid
Lines 5 - 7 are for permitted facilities only.			
5.	TSDR Offsite Receipt Report	<u>4</u>	<u>1,013,271 kg</u> Record total received
6.	TSDR Summary Report	<u>20</u>	Total each numeric column and place on last page summary report.
7.	TSDR Fee form	<u>1</u>	<u>\$ 19,000</u> Total Paid
8.	Circle the transmittal method for fee payments.	<u>Enclosed</u>	Separate cover.
9.	Comments:		

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Date: 02/94

SECTION A

Date: 02/94

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

Date: 02/94

Hazardous Waste Notification

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

If below is incorrect, please change, certify and return. Retain a copy of any changes.

1. Organization's full, legal name UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Mailing address PO BOX 2003	City OAK RIDGE	State TN	Zip code 378317134
3 a. Site address TENNESSEE STATE RT 58 AT BLAIR RD. OAK RIDGE, TN	City OAK RIDGE, TN	State 378317134	Zip code County name Anderson
b. Latitude (degrees, minutes & seconds) 35.5600	Longitude (degrees, minutes & seconds) 84.2348		
4. Owner name UNITED STATES DEPARTMENT OF ENERGY		Phone with area code (615) 576-0716	
5. Manager or operator name US DEPT OF ENERGY MARTIN MARIETTA ENERGY		Phone with area code (615) 576-7930 576-0082	
6. Principal technical contact LINCOLN E. HALL R.S. EBY		Phone with area code (615) 576-7930 576-0082	
7. Number of employees 4,288	Year operation began 1943	SIC codes (Primary SIC first, etc.) 2819,	Job shop Yes ☐ No ☒
8. Emergency contacts for 24 hours per day and 7 days per week			
a. Name DOE SECURITY OPERATIONS CENTER		Time period covered 24 HOURS	Phone with area code (615) 576-1004
b. K-25 PLANT SHIFT SUPERINTENDENT		24 HOURS	(615) 574-3282
c.			
d.			
9. List current environmental (air, water, and radiological) permits. Give permit type, source, number and expiration date. In a range of related permits, give the first and last permit number. SEE ATTACHMENT #1			
10. Check the activities below you are engaged in related to recycling or burning hazardous waste as a fuel.			
a. Fuel blending or marketing of hazardous waste as a fuel. a()			
b. Transporting hazardous waste as fuel b()			
c. Burning hazardous waste as fuel c()			
d. Do you receive RCRA hazardous waste from off-site and recycle it? Yes (), No (X).			
11. Certify that the information given in this document is true, accurate and complete by signing and dating.			
Signature of authorized representative		Title	Date
*** Below is for Department use only *****			
12. Date received	County code 01	Priority	Generator Yes y No
			Small Generator Yes y No
13. Date closed	Date regulated	Date deregulated	Special status
14. Comments			

Date: 02/94

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>
012503P	None
012506P	None
012660P	None
015097P	None
016306P	None
016309P	None
016310P	None
016311P ^a	None
016312P	None
017051P	None
017053P	None
017055P	None
017337P	None
017338P	None
017339P	None
019608P	None
023798P ^a	10/01/93
024105P ^a	10/01/93
024498P ^a	04/01/93
025120P	10/31/94
025655P ^a	10/01/93
028424P ^a	08/01/93
029192P	10/01/94

Date: 02/94

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>
029895P	10/01/95
029897P	10/01/95
029898P	10/01/95
029899P	10/01/95
029900P	10/01/95
029901P	10/01/95
029902F ^a	10/01/93
031404P	10/01/95
032344P	10/01/95
032345P	10/01/95
032449I ^a	10/02/93
032930P	10/01/96
033203P	10/01/94
034218P	10/01/96
034231P	10/01/96
034392P	10/01/96
034619P	10/01/96
034645P	10/01/96
034646P	10/01/96
034647P	10/01/96
035063P	10/01/96
035840P	10/01/97
035867P	10/01/97

Date: 02/94

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>
035868P	10/01/97
037113P	10/01/97
732346P	10/01/95
733774P	10/01/96
734461P	10/01/97
932953P	11/01/92
933170P	01/01/93
934193P ^b	10/01/92
937114F ^b	10/01/94

^aRenewal submitted to TDEC

^bOperating permit submitted to TDEC

NESHAP - Radionuclide Emissions Approval to Construct

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

Date: 02/94

United States Department of Energy, K-25 Site

EPA ID Code: TN0 89 009 0004

Water (NPDES)

NPDES Permit TN 0002950^a

Discharge Identification

Location

005	K-1203
009	K-1515-C
010	K-1407-E
011	K-1407-J to Poplar Creek
012	K-1407-F
013	K-1513
014 ^b	K-1407-J to Clinch River
100 to 996	Category I, II, III, and IV storm strains (see attached list)

^aThe final permit was issued 10/01/92.

^bNot yet active--scheduled for 4/96.

Date: 02/94

United States Department of Energy, K-25 Site

EPA ID Code: TN0 89 009 0004

NPDES Permit TN 0002950

OAK RIDGE K-25 SITE STORM DRAINS

Category I^a

SD-156 SD-420
SD-192 SD-450
SD-194 SD-460
SD-196 SD-470
SD-242 SD-520
SD-256 SD-522
SD-260 SD-532
SD-262 SD-540
SD-264 SD-550
SD-270 SD-570
SD-280 SD-580
SD-290 SD-590
SD-292 SD-620
SD-294 SD-650
SD-296 SD-692
SD-297 SD-694
SD-298 SD-696
SD-300 SD-702
SD-310 SD-724
SD-320 SD-730
SD-322 SD-740
SD-326 SD-910
SD-332 SD-920
SD-334 SD-930
SD-340 SD-934
SD-350 SD-940
SD-360 SD-950
SD-362 SD-960
SD-364 SD-970
SD-370 SD-980
SD-382 SD-990
SD-400 SD-996
SD-410

Category II^b

SD-110
SD-140
SD-152
SD-158
SD-160
SD-168
SD-198
SD-210
SD-250
SD-254
SD-330
SD-352
SD-640
SD-660
SD-670
SD-680
SD-780
SD-790
SD-800
SD-810
SD-820
SD-830
SD-840
SD-850
SD-860
SD-870
SD-880
SD-890
SD-892
SD-900

^aSemi-Annual Sampling for pH (4.0 - 9.0) and estimated flow.

^bQuarterly Sampling for pH (4.0 - 9.0), suspended solids, and estimated flow.

Date: 02/94

United States Department of Energy, K-25 Site

EPA ID Code: TN0 89 009 0004

NPDES Permit TN 0002950

OAK RIDGE K-25 SITE STORM DRAINS (continued)

Category III^c

SD-120	SD-480
SD-142	SD-490
SD-144	SD-510
SD-146	SD-530
SD-148	SD-560
SD-150	SD-600
SD-154	SD-610
SD-162	SD-690
SD-197	SD-700
SD-200	SD-710
SD-220	SD-712
SD-230	SD-720
SD-240	SD-750
SD-380	SD-760
SD-390	SD-770
SD-430	SD-992
SD-440	SD-05A

Category IV^d

SD-100
SD-124
SD-130
SD-170
SD-180
SD-190

^cMonthly Sampling for pH (4.0 - 9.0), suspended solids, oil & grease, and estimated flow.

^dWeekly Sampling for pH (6.0 - 9.0), suspended solids, oil & grease, total residual chlorine, and estimated flow.

Date: 02/94

United States Department of Energy, K-25 Site

EPA ID Code: TN0 89 009 0004

Following is a listing of the Part B Permits that have been issued by Tennessee Department of Environment and Conservation to the Oak Ridge K-25 Site. Each Part B Permit is listed by number and is followed by a listing of the units covered by the permit.

1. TNHW-015

- K-1435 TSCA Incinerator

2. TNHW-015A

- K-1425 Waste Oil/Hazardous Waste Polychlorinated Biphenyl Container Storage Unit
- K-1425 Waste Oil/Hazardous Waste Polychlorinated Biphenyl Tank Storage Unit
- K-1435 TSCA Tank Storage and Treatment Unit
- K-1435 TSCA Container Storage Unit (Area B)
- K-1435 TSCA Container Storage Unit (Area C)

3. TNHW-056

- WSU 005 (formerly referred to as K-310-A hazardous waste storage unit)
- WSU 006 (formerly referred to as K-309 Vault 2A hazardous waste storage unit)
- WSU 007 (formerly referred to as K-309-3 hazardous waste storage unit)
- WSU 023 (formerly referred to as K-302-4 hazardous waste storage unit)
- WSU 024 (formerly referred to as K-302 Vault 8A hazardous waste storage unit)
- WSU 025 (formerly referred to as K-302-5 hazardous waste storage unit)
- WSU 026 (formerly referred to as K-303-A hazardous waste storage unit)
- WSU 028 (formerly referred to as K-303-2 hazardous waste storage unit)
- WSU 070 (formerly referred to as K-306-3 hazardous waste storage unit)
- WSU 072 (formerly referred to as K-306-4 hazardous waste storage unit)
- WSU 002 (formerly referred to as K-311-1 radiogenic lead storage vault)
- WSU 056 (formerly referred to as K-305 Vault 19 hazardous waste storage unit)
- WSU 057 (formerly referred to as K-305 Vault 19B hazardous waste storage unit)
- WSU 067 (formerly referred to as K-306-1 PCB hazardous waste container storage unit)
- WSU 068 (formerly referred to as K-306-1 Vault 23A hazardous waste storage unit)
- K-1036-A WSU (formerly referred to as K-1036-A hazardous waste storage unit)
- K-711 WSU (formerly referred to as K-711 hazardous waste storage unit)
- K-1025-C WSU (formerly referred to as K-1025-C storage building)
- K-1302 WSU (formerly referred to as K-1302 gas cylinder storage unit)
- WSU 011 (formerly referred to as K-301 Vault 4 hazardous waste storage unit)
- WSU 012 (formerly referred to as K-301 Vault 4A hazardous waste storage unit)
- WSU 013 (formerly referred to as K-301 Vault 4B hazardous waste storage unit)

Date: 02/94

3. TNHW-056 (continued)

- K-1232 WSU (formerly referred to as K-1232 treatment unit container storage)
- K-1065-A, -B, -C, -D, -E WSUs (formerly referred to as K-1065-A, -B, -C, -D, -E drum storage units)
- K-1423 WSPU (formerly referred to as K-1423 hazardous waste storage and processing unit)
- K-27 V-32A WSU (formerly referred to as K-27 Vault 32A hazardous waste storage unit)
- K-27 V-31X WSU (formerly referred to as K-27 Vault 31X)
- K-27 WA-31X WSU (formerly referred to as K-27 withdrawal alley 31X)
- K-27 WA-31 WSU (formerly referred to as K-27 withdrawal alley 31)
- K-27 WA-31A WSU (formerly referred to as K-27 withdrawal alley 31A)
- K-27 WA-32 WSU (formerly referred to as K-27 withdrawal alley 32)
- K-27 WA-32A WSU (formerly referred to as K-27 withdrawal alley 32A)
- K-27 WA-33 WSU (formerly referred to as K-27 withdrawal alley 33)
- K-27 WA-33A WSU (formerly referred to as K-27 withdrawal alley 33A)
- K-27 WA-34 WSU (formerly referred to as K-27 withdrawal alley 34)
- K-25 WA-2A WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-3 WSU (formerly referred to as K-25 Withdrawal alleys [34 units])
- K-25 WA-3A WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-4 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-4A WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-5 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-5A WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-6A WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-7A WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-9 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-10 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-10A WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-11 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-11A WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-12 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-13X WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-13 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-13A WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-14 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-15 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-15A WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-16 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-17 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-17A WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-18 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-18A WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-19 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-19A WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-20 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-20A WSU (formerly referred to as K-25 withdrawal alleys [34 units])

Date: 02/94

3. TNHW-056 (continued)

- K-25 WA-21 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-24 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-24A WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-25 WA-26 WSU (formerly referred to as K-25 withdrawal alleys [34 units])
- K-1427 WSU (formerly referred to as K-1427 production waste storage facility-- containers)
- K-31 WPU's (172 units)
- K-33 WPU's (589 units)
- WSU 003 (formerly referred to as K-310-3 hazardous waste storage unit)
- WSU 009 (formerly referred to as K-309-3A hazardous waste storage unit)
- WSU 010 (formerly referred to as K-309-1 hazardous waste storage unit)
- WSU 015 (formerly referred to as K-301-5A hazardous waste storage unit)
- WSU 016 (formerly referred to as K-301-4 hazardous waste storage unit)
- WSU 022 (formerly referred to as K-302-3 hazardous waste storage unit)
- WSU 029 (formerly referred to as K-303-3 hazardous waste storage unit)
- WSU 032 (formerly referred to as K-303-5 hazardous waste storage unit)
- WSU 033 (formerly referred to as K-303-11A hazardous waste storage unit)
- WSU 034 (formerly referred to as K-303-6 hazardous waste storage unit)
- WSU 044 (formerly referred to as K-304-15A hazardous waste storage unit)
- WSU 066 (formerly referred to as K-305-12 hazardous waste storage unit)
- WSU 071 (formerly referred to as K-306-24A hazardous waste storage unit)
- WSU 074 (formerly referred to as K-306-25A hazardous waste storage unit)
- WSU 077 (formerly referred to as K-306-26A hazardous waste storage unit)

4. TNHW-057

- K-1202 WSUs (formerly referred to as K-1202 hazardous waste storage tanks)
- K-1420-A WSU (formerly referred to as K-1420-A flammable liquid storage unit)

Date: 02/94

SECTION B

Date: 02/94

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

Date: 02/94

1994 Hazardous Waste Generator Maintenance Fees

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

INSTRUCTIONS

Line 1: Complete the following to determine if you owe the hazardous waste maintenance fee for generators. Return the certified form even if no fees are due.

1.1 Enter the number of months in 1993 that you generated 100 to 1000 kilograms hazardous waste. 0

1.2 Enter the number of months in 1993 that you generated more than 1,000 Kilograms of hazardous waste. 12

If lines 1.1 and 1.2 are all zero, you owe no fee. Enter zero in line 1 below and skip to line 2.

If line 1.2 is greater than zero, enter \$900 on line 1 below and skip to line 2.

Otherwise, enter \$550 on line 1 below and continue on line 2.

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

TNO 89-009-0004 YN -Y-Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: LINCOLN E. HALL R.S. EBY
PO BOX 2003
OAK RIDGE, 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 large quantity generator, enter \$900. If you are a small quantity generator, enter \$550. Else, enter zero. Submit the completed form with your check or money order payable to Tennessee Department of Environment and Conservation. Do not send cash.

\$ 900

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

| Date |

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

CN-0906 (11/92)

Date: 02/94

1994 Hazardous Waste TSDR Permit Maintenance Fees

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

TNO 89-009-0004 7N - Y-Y Knoxville

UNITED STATES DEPT. OF ENERGY 1-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Please complete and return. Fees are due by
by March 1, 1994. Late fee will be subject to
significant penalties.

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 1994,
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 are authorized for storage operations in 1994, complete this question; else go to 2.		65,454,790
a. Enter total design capacity of your storage operation in gallons.		
b. If your facility is authorized for storage from off-site generators, circle "OFF SITE" to the right; else, circle "ON SITE".	☒ OFF SITE ☐ ON SITE	c. Enter annual permit maintenance fee for storage operations from Table 1.
		\$10,000
2. If you are authorized for treatment operations in 1994, complete this question; else go to 3.		656,117
a. Enter total design capacity of your treatment operation in gallons per day.		
b. If your facility is authorized for treatment from off-site generators, circle "OFF SITE" to the right; else, circle "ON SITE".	☒ OFF SITE ☐ ON SITE	c. Enter annual permit maintenance fee for treatment operations from Table 2.
		\$9,000
3. If you are authorized for disposal operations in 1994, complete this question; else go to 4.		
a. If your facility is authorized for disposal from off-site generators, circle "OFF SITE" to the right; else, circle "ON SITE".	☐ OFF SITE ☐ ON 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 permitted capacity of injection wells in gallons per day.		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.)		\$19,000
Submit form with check or money order payable to Tennessee Department of Environment and Conservation 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

For DEPARTMENT USE | Date received | Amount | Receipt # | Comments

CD No.

CN-0912 (11/92)

Date: 02/94

SECTION C

Date: 02/94

UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE
ADJUSTMENTS TO 1993 REPORT

Date: 02/94

Adjustments to 1993 Report from 1992 Report	
Waste Stream	Adjustment
49	An adjustment was made to the 1993 "Amount Onsite Begin of Year" (Summary Report for TSDR Facilities) value for this stream. Material previously included in the total quantity of waste in storage was determined not to be hazardous waste.
64, 85, 133, 148, 155, 156, 159	The standard production units used in the calculation of the ratios reported in the "Hazardous Waste Reduction Data" section of the "Hazardous Waste Stream Report" for these streams were changed from those used in 1992 in order to provide a more representative unit of measure. The 1992 "Hazardous Waste Stream Reports" for these streams are included with the ratios calculated using the new standard production units.
35, 36, 40, 41, 42, 44, 60, 70, 71, 72, 73, 82, 93, 122, 123, 125, 131, 138, 140, 145, 146, 149, 157, 158, 163, 164, 165, 166, 168	Adjustments were made to the 1993 "Amount on-site on first day of year" (Hazardous Waste Stream Report) values for the identified waste streams. Further characterization of waste prior to movement to storage or treatment resulted in reassignment of wastes to more appropriate waste streams. Weights were adjusted to reflect actual weight of the waste--1992" Amount on-site on last day of year" (Hazardous Waste Stream Report) weights were based on volume-density estimates. Actual weights and waste stream assignments replaced estimates for "Amount on-site on last day of year" (Hazardous Waste Stream Report) values for the 1993 report.
P10, R1, PD2 on Summary Report	Adjustments were made to the 1993 "Amount Onsite Begin of Year" (Summary Report) values from the 1992 "Amount Onsite End of Year" (Summary Report) values for the identified waste streams. Adjustments were made based on information obtained from inventory reevaluation.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management,
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. K-1232/CNF CENTRIFUGED SLUDGE		Waste Stream number 64			
3. Give the years this waste has been generated, e.g. 1975, 1982-1985- Date no longer generated. MM/DD/YY		Frequency of generation (C) Continuous Accidental Various One time			
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g) EPA waste codes. (Primary first, six maximum.) F006, F001, F002, F003 DOMX, FOMX, UOMX SIC code for generating process. 2819.					
5. Physical form Sldg-Watr (5)	% Solid 70.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 10.000	Chlorine content (PPM) 0.0	If used for fuel, BTU per pound 0.0
6. Generation rates. Supply all Monthly maximum (kg) 29,295.0 9,363		rates in kilograms. Annual average (kg) 29,295.0 106,178		Maximum amount stored on-site (kg) 29,295.0 9,363	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE SOLIDS. NOS		DOT hazard class 9 R M - E		DOT ID code 12	9189

8. Describe generation process.
CENTRIFUGE CAKE GENERATED FROM TREATMENT OF ELECTROPLATING WASTE AND CNF WASTE WATER. THIS IS A MIXED WASTE.

9. Chemical Characteristics.	Flash point	Reactive code	Concentration units. For EP toxic and TCLP wastes, use ppm. % volumetric, % weight (), ppm ()	
Major and hazardous constituents. Give range or values at right.			Lower value	Upper value
a. LIME			50	90
b. WATER			5	45
c. VARIOUS HALOGENATED SOLVENTS			11	15
d. EP TOXIC/OTHERWISE TOXIC SUBSTANCES				TRACE
e.				

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

Date: 02/94

Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use 'T', 'S', or 'J' codes from the instructions. For other 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)
1992	112,355	6,039	0

Total Handled OFFsite	TSDR handling/waste management methods	Amount Handled ONsite	TSDR handling/waste management methods
a	N	b 118,394	Y Sol

Amount Handled ONsite	TSDR handling/waste management methods	Amount Handled ONsite	TSDR handling/waste management methods
c	Y	d	Y

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.
This year's actual ratio	Goal year's ratio	If no numeric goal has been set, describe your efforts to set one in line 15 below.
27.6	20.7	

13. 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	f. Reduction research/planning	(X)
b. In process recycling	b	g. No effort	(X)
c. Equipment/technology modification	c	h. Other - briefly explain here.	g
d. Substituting raw materials	d		
e. Improved operations	(eX)		

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance	a	No	NA	Yes	g. High costs of haz. waste mgt.	g	No	NA	Yes
b. Technical feasibility	b	No	NA	Yes	h. Accidental generation	h	No	NA	Yes
c. Economic practicality	c	No	NA	Yes	i. Other - describe here	i	No	NA	Yes
d. Measurement/accounting methods	d	No	NA	Yes					
e. IN hazardous waste regulations	e	No	NA	Yes					
f. Implementation experience	f	No	NA	Yes					

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generated dependent on quantity of waste treated.
Amount of waste treated by CWF increased significantly resulting in increased generation of treatment sludge. Some non-hazardous waste waters will be diverted to minimize hazardous waste sludge generation.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative) TITLE:

DATE:

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

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 (5); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastes (R); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting
	Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management,
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. TSCA INCINERATOR ASH		Waste Stream number 85			
3. Give the years that this waste has been generated, e.g. 1975, 1982-1987.		Date no longer generated. MM/DD/YY			
		Frequency of generation (Y) Continuous Accidental Various One time			
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g) 66		EPA waste codes. (Primary first, six maximum.) DOMX, FOMX, process. F001, F002, F003, F006 UOMX 2819.			
5. Physical form Slid:Othr (9)	% Solid 90.0	% Water 10.0	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 10,000.0 3,488		Annual average (kg) 13,216.0 6,744		Maximum amount stored on-site (kg) 10,000.0 3,488	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE SOLID, NOS		DOT hazard class 0 R M - E		DOT ID code 12 9189	

8. Describe generation process.
ASH IS GENERATED DURING OPERATION OF K-1435 TSCA/RCRA DUAL PURPOSE INCINERATOR

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume % weight % ppm	
OH	Flash point	Reactive code	
Major and hazardous constituents. Give range of values at right.		Lower value	Upper value
a.			
b.			
c.			
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use 'I', 'S', or 'D' codes from the instructions. For other 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)
1992	3,488	0	0

Total handled Offsite	TSDR handling/waste management methods	Amount Handled Onsite	TSDR handling/waste management methods
a	NA	b 3,488	Y 501

Amount handled Onsite	TSDR handling/waste management methods	Amount Handled Onsite	TSDR handling/waste management methods
c	Y	d	Y

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.
This year's actual ratio: 148.5 Goal year's ratio: 111.4 If no numeric goal has been set, describe your efforts to set one in line 15 below.

13. 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	f. Reduction research/planning	f
b. In process recycling	b	g. No effort	g
c. Equipment/technology modification	c	h. Other - briefly explain here.	h
d. Substituting raw materials	d		
e. Improved operations	eX		

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance	a	No	NA	YES	g. High costs of haz. waste mgt.	g	No	NA	YES
b. Technical feasibility	b	No	NA	YES	h. Accidental generation	h	No	NA	YES
c. Economic practicality	c	No	NA	YES	i. Other - describe here:	i	No	NA	YES
d. Measurement/accounting methods	d	No	NA	YES					
e. TN hazardous waste regulations	e	No	NA	YES					
f. Implementation experience	f	No	NA	YES					

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generation is dependent on incinerator operations and feed materials.

16. Certification: I certify that the information given on this form 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
Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8);	Reporting
Variance granted (9); Conditionally exempt (1A); Mixed radiological wastes (1B);	
Corrective Action (C); Waste water Rx (W).	Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management,
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please Complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004				
2. Waste name. Use standard name from regulations whenever possible. TSCA AND IWS SLUDGE		Waste Stream number 133				
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 (y) Continuous Accidental Various One time				
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g) or		EPA waste codes. (Primary first; six maximum.) DOMX, FOMX, F001, F002, F003, F006 UOMX SIC code for generating process. 2819.				
5. Physical form Sld:Othr (9)	% Solid 90.0	% Water 10.0	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 3,000.0 7,270		Annual average (kg) 23,311.0 87,237		Maximum amount stored on-site (kg) 3,000.0 7,270		Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE SOLID. NOS		DOT hazard class 0 R M - 5		DOT ID code 12 9189		

8. Describe generation process.
TREATMENT OF WASTE WATERS FROM OPERATING THE TSCA INCINERATOR. THIS IS A MIXED WASTE.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use ppm.	
OH	Flash point	Reactive code	% volumetric, % weight (), ppm
Major and hazardous constituents. Give range of values at right.		Lower value	Upper value
a. SPENT SOLVENTS (VARIOUS)		0	100
b. WASTE WATERS FROM TSCA INCINERATOR AFTER TREATMENT AT CNF		95	100
c.			
d.			
e.			

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

Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an off-site shipping report. Report on-site handling in blocks (b) - (d). For off-site or on-site handling that requires inter-plant status or a permit, use S, S1, or C codes from the instructions. For other handling, use H codes.

Report year (kg)	Amount generated during year (kg)	Amount on-site on first day of year (kg)	Amount off-site on last day of year (kg)
1992	777776	0	0
Total Handled Offsite			
Amount handled/waste management methods	SDR handling/waste management methods	Amount handled Onsite	SDR handling/waste management methods
777776	777776	777776	SDR handling/waste management methods
Amount Handled Onsite			
Amount handled/waste management methods	SDR handling/waste management methods	Amount handled Onsite	SDR handling/waste management methods
777776	777776	777776	SDR handling/waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1999 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting: see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details. This year's actual ratio: 301.1
This year's goal ratio: 301.1

13. 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
- b. In process recycling
- c. Equipment/technology modification
- d. Substituting raw materials
- e. Improved operations

1. Reduction research/planning

2. No effort - briefly explain here.

3. Other - briefly explain here.

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

- a. Training or technical assistance
- b. Technical feasibility
- c. Economic practicality
- d. Measurement/accounting methods
- e. In hazardous waste regulations
- f. Implementation experience

15. Narrative: Provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe improvements to its reduction.

Waste generation dependent on quantity and type of waste treated.

16. Certification: I certify that the information given on this form is true, accurate and complete.
DATE: _____
SIGNATURE: _____
TITLE: _____

Below is for Department use only.
Date received (MM/DD/YYYY): _____
Test results? Reasonable? Follow up?
YES NO YES NO YES NO
Initials: _____

Status: NOT HAZARDOUS (1) Demonstrated not hazardous (2) Resource recovery (3) No longer generated (4) Status further reporting
Partial exemption (5) Hazardous (6) Accidental (7) No longer generated (8)
Corrective action (9) Waste water RX (10) Conditionally exempt (11) Mixed radiological wastes (12)

18. Comments:

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management,
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct. Certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. K-1435 TSCA INCINERATOR WASTE WATERS		Waste Stream number 148	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. MM/DD/YYYY	
		Frequency of generation (v) Continuous _____ Accidental _____ Various _____ One time _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g)		EPA waste codes. (Primary first, six maximum.) SIC code for generating process. F001, F002, F003, F005 UOMX 2819.	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)
Liq-Watr (2)	<1	99	8.000
		If used for fuel, chlorine content (PPM)	
		0.0	
		BTU per pound	
		0.0	
6. Generation rates. Supply all rates in kilograms.		Maximum amount stored on-site (kg)	
Monthly maximum (kg)		Annual average (kg)	
5,500,000.0		55,240,113	
		550,000.0	
		4	
7. DOT shipping name HAZARDOUS WASTE LIQUID NOS		DOT hazard class C R M - E	
		12	
		9189	

8. Describe generation process.

WASTE WATERS GENERATED DURING THE OPERATION OF THE K-1435 TSCA INCINERATOR. THE WASTE WATERS CONSIST OF WATERS USED DURING THE COOLING PROCESS OF THE RESULANT ASH, BLOW DOWNS AND ANY WASHWATERS. WASTE WATERS GENERATED DURING THE OPERATION OF THE K-1435 TSCA INCINERATOR. THE WASTE WATERS CONSIST OF WATERS USED DURING THE COOLING PROCESS OF THE RESULANT ASH, BLOW DOWNS AND ANY WASHWATERS. WASTE WATERS GENERATED DURING THE OPERATION OF THE K-1435 TSCA INCINERATOR. THE WASTE WATERS CONSIST OF WATERS USED DURING THE COOLING PROCESS OF THE RESULANT ASH, BLOW DOWNS AND ANY WASHWATERS. WASTE WATERS GENERATED DURING THE OPERATION OF THE K-1435 TSCA INCINERATOR. THE WASTE WATERS CONSIST OF WATERS USED DURING THE COOLING PROCESS OF THE RESULANT ASH, BLOW DOWNS AND ANY WASHWATERS.

9. Chemical Characteristics.

OH Flash point Reactive code Concentration units. For EP toxic and TCLP wastes, use PPM.
% volume % weight ppm

Major and hazardous constituents. Give range of values at right.

a. WATER

99%

b. TRACE AMOUNTS OF WASTE CONSTITUENTS

c.

d.

e.

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

CONSIST OF WATERS USED DURING THE COOLING PROCESS OF THE RESULANT ASH, BLOW DOWNS AND ANY WASHWATERS.

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report on-site handling in blocks (b) - (d). For offsite or on-site handling that requires interim status or a permit, use "I", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report year 1992	Amount generated during year (kg) 64,963,273	Amount on-site on first day of year (kg) 0	Amount on-site on last day of year (kg) 0
Total handled OFFsite a		TSDR handling/waste management methods b	Amount handled ONsite 15,950
Amount handled ONsite c		TSDR handling/waste management methods H04	Amount handled ONsite d

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.
This year's actual ratio: 27.7 Goal year's ratio: 20.7 If no numeric goal has been set, describe your efforts to set one in line 15 below.

13. 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	f. Reduction research/planning	f
b. In process recycling	b	g. No effort	g
c. Equipment/technology modification	c	h. Other - briefly explain here	h
d. Substituting raw materials	d		
e. Improved operations	e		

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance	a	g. High costs of haz. waste mgt.	g
b. Technical feasibility	b	h. Accidental generation	h
c. Economic practicality	c	i. Other - describe here	i
d. Measurement/accounting methods	d		
e. TN hazardous waste regulations	e		
f. Implementation experience	f		

15. Narrative: Provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

New Calibration method eliminated generation of waste water from calibration of flow meters. The largest portion of the waste generated is dependent on operation of the incinerator.

16. Certification: I certify that the information given on this form 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
Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Reporting
Variance granted (9); Conditionally exempt (A); Mixed radiological wastes (R);
Corrective Action (C); waste water Rx (W). Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. TSCA INCINERATOR TRASH		Waste Stream number 155	
3. Give the years that this waste has been generated, e.g., 1975, 1992-1990-		Date no longer generated. MM/DD/YY.	
		Frequency of generation (C) Continuous Accidental Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g)		EPA waste codes. Primary first: SIC code for generating process. Six maximum: DOMX, FOMX, UOMX 2819. F001, F002, F003.	
5. Physical form	% Solid % Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM) BTU per pound
Sld:0thr (9)	100	8.000	0.0 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg)		Annual average (kg)	Maximum amount stored on-site (kg)
1,000.0		10,416.0 11,229	1,000.0 90
7. DOT shipping name HAZARDOUS WASTE SOLID, NOS		DOT hazard class O R M - E	DOT ID code 12 9189
8. Describe generation process. GENERATED DURING TREATMENT OF HAZARDOUS WASTE AT THE TSCA INCINERATOR. GENERATED DURING TREATMENT OF HAZARDOUS WASTE AT THE TSCA INCINERATOR. GENERATED DURING TREATMENT OF HAZARDOUS WASTE AT THE TSCA INCINERATOR. GENERATED DURING TREATMENT OF HAZARDOUS WASTE AT THE TSCA INCINERATOR.			

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
OH	Flash point	Reactive code	% Volume % Weightly % PPM
Major and hazardous constituents. Give range of values at right.		Lower value	Upper value
a. RAGS, WIPES, PAPER		100	100
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use 'I', 'S', or 'D' codes from the instructions. For other 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)
1992	12,042	0	0

Total handled Offsite	TSDR handling/waste management methods	Amount handled Onsite	TSDR handling/waste management methods
a	N	b 12,042	Y S01

Amount handled Onsite	TSDR handling/waste management methods	Amount handled Onsite	TSDR handling/waste management methods
c	Y	d	Y

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	If no numeric goal has been set, describe your efforts to set one in line 15 below.
51.3	38.4	

13. 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)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Increased segregation of trash to minimize hazardous waste generation.

16. Certification: I certify that the information given on this form is true, accurate and complete.
SIGNATURE: Generator or authorized representative TITLE: DATE:

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

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
Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8);	Reporting
Variance granted (9); Conditionally exempt (A); Mixed radiological wastes (R);	
Corrective Action (C); Waste water Rx (W).	Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility: UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. TSCA INCINERATOR FEED MATERIALS		Waste stream number 156	
3. Give the years that this waste has been generated, e.g. 1975, 1992-1990-		Date no longer generated. MM/DD/YY	
		Frequency of generation (C) Continuous Accidental. Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g)		EPA waste codes. (Primary first; six maximum.) DOMX, FOMX F001, F002, F003, D008 UOMX 2819.	
5. Physical form		% Solid	% Water
Liq-Othr (3)			
Vol. to wt. conversion (pounds/gallon)		If used for fuel, chlorine content (PPM)	
8.000		0.0	
BTU per pound		0.0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg)		Maximum amount stored on-site (kg)	
2,500.0		2,500.0	
Annual average (kg)		Maximum days stored	
20,725.0 33,824		90	
7. DOT shipping name HAZARDOUS WASTE, LIQUID		DOT hazard class O R M - E	
		12	
		DOT ID code 9189	
8. Describe generation process. EXCESSED FEED MATERIALS. EXCESSED FEED MATERIALS. EXCESSED FEED MATERIALS. EXCESSED FEED MATERIALS.			

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use ppm.	
CH	Flash point	Reactive code	% volume, % weight, ppm
Major and hazardous constituents. Give range of values at right.		Lower value	Upper value
a.			
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use 'I', 'S', or 'O' codes from the instructions. For other handling, use 'H' codes.

Report year 1992	Amount generated during year (kg) 46,922	Amount on-site on first day of year (kg) 0	Amount on-site on last day of year (kg) 0
Total handled Offsite 3		TSDR handling/waste management methods N	Amount handled Onsite 523
Amount handled Onsite 46,399		TSDR handling/waste management methods Y	TSDR handling/waste management methods 501,502
Amount handled Onsite 46,399		TSDR handling/waste management methods Y	TSDR handling/waste management methods Y

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.
This year's actual ratio: 1997.3 Goal year's ratio: 1498.0
If no numeric goal has been set, describe your efforts to set one in line 15 below.

13. 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	f. Reduction research/planning	(fX)
b. In process recycling	b	g. No effort	(gX)
c. Equipment/technology modification	c	h. Other - briefly explain here.	(hX)
d. Substituting raw materials	d		
e. Improved operations	e		

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance	a	No	NA	Yes	g. High costs of haz. waste mgt.	g	No	NA	Yes
b. Technical feasibility	b	No	NA	Yes	h. Accidental generation	h	No	NA	Yes
c. Economic practicality	c	No	NA	Yes	i. Other - describe here:	i	No	NA	Yes
d. Measurement/accounting methods	d	No	NA	Yes					
e. Hazardous waste regulations	e	No	NA	Yes					
f. Implementation experience	f	No	NA	Yes					

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

16. Certification: I certify that the information given on this form 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 es No

Status: Not hazardous (1); Demonstrated not hazardous (2); Resource recovery (4);	Status: Further
Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8);	Reporting
Variance granted (3); Conditionally exempt (A); Mixed radiological wastes (R);	Y N
Corrective Action (C); Waste water Rx (W).	

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management,
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. TSCA INCINERATOR SOLIDS		Waste Stream number 159	
3. Give the years that this waste has been generated, e.g. 1975, 1982-1990-		Date no longer generated. MM/DD/YY	
		Frequency of generation Continuous Accidental Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).		EPA waste codes. (Primary first, six maximum.) DOMX, FOMX, UOMX 2819.	
5. Physical form Slid:Othr (9)	% Solid 100	% Water 0.000	If used for fuel, chlorine content (PPM) 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 1,500.0 5,000		Annual average (kg) 10,117.0 52,078	Maximum amount stored on-site (kg) 1,500.0 5,000
7. DOT shipping name HAZARDOUS WASTE SOLID, NOS		DOT hazard class D R M - E	DOT ID code 12 9189

8. Describe generation process.

~~GENERATED FROM TREATMENT OF HAZARDOUS WASTE AT THE TSCA INCINERATOR. GENERATED FROM TREATMENT OF HAZARDOUS WASTE AT THE TSCA INCINERATOR. GENERATED FROM TREATMENT OF HAZARDOUS WASTE AT THE TSCA INCINERATOR. GENERATED FROM TREATMENT OF HAZARDOUS WASTE AT THE TSCA INCINERATOR.~~

9. Chemical Characteristics.

Flash point Reactive code Concentration units. For EP toxic and
TCLP wastes, use PPM.
% volume % weight

Major and hazardous constituents. Give range or values at right.

Lower value Upper value

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an off-site shipping report. Report on-site handling in blocks (b) - (d). For offsite or on-site handling that requires interim status or a permit, use 'I', 'S', or 'D' codes from the instructions. For other 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)
1992	93,708	0	0
Total handled OFFsite		Amount Handled ONsite	
TSDR handling/waste management methods		TSDR handling/waste management methods	
a		b	
Amount handled ONsite		Amount Handled ONsite	
TSDR handling/waste management methods		TSDR handling/waste management methods	
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	If no numeric goal has been set, describe your efforts to set one in line 15 below.
398.9	299.2	

13. 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	f. Reduction research/planning	f
b. In process recycling	b	g. No effort	g
c. Equipment/technology modification	c	h. Other - briefly explain here	h
d. Substituting raw materials	d		
e. Improved operations	e		

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance	a	g. High costs of haz. waste mgt.	g
b. Technical feasibility	b	h. Accidental generation	h
c. Economic practicality	c	i. Other - describe here	i
d. Measurement/accounting methods	d		
e. TN hazardous waste regulations	e		
f. Implementation experience	f		

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generated a function of waste treated.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: Generator or authorized representative

TITLE:

DATE:

Below is for Department use only.

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
Partial exemption (5); Hazardous (5); Accidental (7); No longer generated (8);	Reporting
Variance granted (9); Conditionally exempt (A); Mixed radiological wastes (R);	
Corrective Action (C); Waste water Rx (W).	Y N

18. Comments.

Date: 02/94

SECTION D

Date: 02/94

**UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE
1993 OFF-SITE SHIPPING REPORT**

1993 Offsite Shipping Report

For wastes shipped off-site only.

Page 1 of 1

Date: 02/94

FILE 89 009 0004 YIL Y Y KNOXVILLE

A UNITED STATES DEPT. OF ENERGY K 25 SITE
 ALTO: LINCOLN E. HALL R.S. EBY
 PO BOX 2003
 ONE RIDGE, TN 37831 7134

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
 Division of Solid Waste Management
 Fifth Floor, L & C Tower
 401 Church Street
 Nashville, Tennessee 37243-1535

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

2. Waste streams or "FS"	Dot Shipping Name or Waste name	EPA Waste codes	Amount shipped in kilograms	Number of shipments	TSDF/Destination Facility EPA ID number	Transporter EPA ID number	TSDF Handling codes
a.							
FS (71)	Hazardous Waste Liquid, N.O.S. ORM-E NA9189	D006 D007 D009	6,136	1	TN3 89 009 0001	TN0 89 009 0004	T27, H06
b.							
FS (Y23)	Hazardous Waste Liquid, N.O.S. (Tetrachloroethylene, 1,1,1- Trichloroethane) 9 NA3082	D004,D006,D007 D008,D039,F001 F002,F005	11,331	1	TN3 89 009 0001	TN0 89 009 0004	S02
c.							
FS (Y23)	Hazardous Waste Liquid, N.O.S. (Tetrachloroethylene, Methyl Ethylketone) 9 NA3082	D0MX F001,F002 F005	13,743	1	TN3 89 009 0001	TN0 89 009 0004	S02
d.							
e.							
f.							
g.							
h.							
3. Totals: Sum the two columns to the right.							
Page totals: sum the following two columns			31,210	3			
Final totals: sum all page totals on last page of report			31,210	3			

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

SHIPMENT OF TREATABILITY STUDY SAMPLES

In accordance with Tennessee Department of Environment and Conservation Rule 1200-1-11-.02(1)(d)(5)(ii)(VI), the following information is provided for treatability study samples collected and shipped by the U. S. Department of Energy, Oak Ridge K-25 Site:

1. Amount of Waste Shipped
22.7 kg Toxic Substances Control Act Incinerator Ash
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
**P. O. Box 2008
Oak Ridge, TN 37831**
4. Installation Identification Number of Laboratory or Testing Facility That Received the Waste
EPA ID No. TN1890090003
5. Date the Shipment Was Made
March 25, 1993
6. Disposition of Unused Samples and Residues
Unused samples and residues have been returned to the Oak Ridge K-25 Site.

SHIPMENT OF TREATABILITY STUDY SAMPLES

In accordance with Tennessee Department of Environment and Conservation Rule 1200-1-11-.02(1)(d)(5)(ii)(VI), the following information is provided for treatability study samples collected and shipped by the U. S. Department of Energy, Oak Ridge K-25 Site:

1. Amount of Waste Shipped

19.7 kg Central Neutralization Facility Sludge
21.7 kg K-1232 Sludge
2. Name of Laboratory or Testing Facility that Received the Waste

Oak Ridge Y-12 Plant
3. Address of Laboratory or Testing Facility that Received the Waste

P. O. Box 2009
Oak Ridge, TN 37831
4. Installation Identification Number of Laboratory or Testing Facility That Received the Waste

EPA ID No. TN3890090001
5. Date the Shipment Was Made

July 30, 1993
6. Disposition of Unused Samples and Residues

Unused samples and residues will be managed on-site at the testing facility and not returned to the Oak Ridge K-25 Site under the treatability study sample exemption.

SHIPMENT OF TREATABILITY STUDY SAMPLES

In accordance with Tennessee Department of Environment and Conservation Rule 1200-1-11-.02(1)(d)(5)(ii)(VI), the following information is provided for treatability study samples collected and shipped by the U. S. Department of Energy, Oak Ridge K-25 Site:

1. Amount of Waste Shipped
3.3 kg Toxic Substances Control Act Incinerator Sump Sludge
2. 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
**P. O. Box 2008
Oak Ridge, TN 37831**
4. Installation Identification Number of Laboratory or Testing Facility That Received the Waste
EPA ID No. TN1890090003
5. Date the Shipment Was Made
August 23, 1993
6. Disposition of Unused Samples and Residues
Unused samples and residues have been returned to the Oak Ridge K-25 Site.

Date: 02/94

SECTION E

Date: 02/94

**UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE
1993 DETAIL REPORT FOR TSDR FACILITIES**

1993 Detail Report for TSDR Facilities

For wastes received from off-site only.

IND 89 009 0004 711 7 7 8100 71112

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ *P.S. EBY*
PO BOX 2003
OAK RIDGE, TN 37831-7134

Page 1 of 4

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1535

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount shipped in kilograms	Number of shipments	Generator Facility EPA ID number	Transporter EPA ID number	TSDR Handling codes
a. RQ Waste Environmentally Hazardous, Substances, Liquid, N.O.S. 9 (PD2)	P001 D0MX	38,993	4	KY8 89 000 8982	MOD 09 503 8998	S02 T07
b. RQ Waste Flammable Liquids, N.O.S. 3 (X2)	D0MX, F0MX F0MX, U0MX	37,041	15	TN1 89 009 0003	TN1 89 009 0003	S01
c. RQ Waste Combustible Liquid, N.O.S. (X3)	D0MX, F0MX U0MX	3,934	7	TN1 89 009 0003	TN1 89 009 0003	S01
d. RQ Hazardous Waste Solid, N.O.S. 9 (X5)	D0MX, F0MX F0MX, U0MX	21,773	16	TN1 89 009 0003	TN1 89 009 0003	S01
e. Waste Oxidizing Substances, Solid, Poisonous, N.O.S. (X6)	D001, D005, D006, D007, D008, D011	409	1	TN1 89 009 0003	TN1 89 009 0003	S01
f. Waste Mercury, 8 Hazardous Waste Solid, N.O.S. (X7)	D009 U151	1,973	4	TN1 89 009 0003	TN1 89 009 0003	S01
g. RQ Waste Charcoal, Shell, Flammable Solid (X8)	D001	113	1	TN1 89 009 0003	TN1 89 009 0003	S01
h. RQ Hazardous Waste Liquid, N.O.S. 9 (X9)	D0MX, F0MX U0MX	59,160	17	TN1 89 009 0003	TN1 89 009 0003	S01
3. Totals: Sum the two columns to the right. Page totals: sum the following two columns		163,396	65			
Final totals: sum all page totals on last page of report						

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

1993 Detail Report for TSDR Facilities

For wastes received from off-site only.

Page 2 of 4

UNITED STATES DEPT. OF ENERGY K-25 SITE

ATTN: LINCOLN E. HALL R.S. EBY

PO BOX 2003

ONK RIDGE, TN 37851-7134

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1535

Also, complete this form when terminating business.

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

Date: 02/04

E-3

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount shipped in kilograms	Number of shipments	Generator Facility EPA ID number	Transporter EPA ID number	TSDR Handling codes
a. Waste Formalin Solution ORM-A (X10)	U122	47	1	TN1 89 009 0003	TN1 89 009 0003	S01
b. RQ Waste Corrosive Solid, N.O.S. Corrosive Material (X11)	D005	2,401	1	TN1 89 009 0003	TN1 89 009 0003	S01
c. RQ Waste Corrosive Liquid, N.O.S. Corrosive Material (X12)	D002, D0MX U134	1,453	1	TN1 89 009 0003	TN1 89 009 0003	S01
d. RQ Waste Poison B, Liquid, N.O.S. Poison B (X13)	D0MX, F0MX P0MX, U0MX	2,158	5	TN1 89 009 0003	TN1 89 009 0003	S01
e. RQ Waste Flammable Liquid, N.O.S. 3 (P9)	D001, D004, D006, D008, D010, D018	12,539	1	OH7 89 000 8983	MOD 09 503 8993	S02 T07
f. RQ Hazardous Waste Liquid, N.O.S. 9 (P11)	D004, D008, D010, D018, D022, D035, D039, D040	11,377	1	OH7 89 000 8983	MOD 09 503 8993	S01 T07
g. RQ Hazardous Waste Liquid, N.O.S. ORM-E (D018, PCB) (P10)	D018	277,857	15	OH7 89 000 8983	MOD 09 503 8993	S01 T07
h. RQ Hazardous Waste Liquid, N.O.S. ORM-E (T1)	D0MX	2,290	4	TN4 89 180 0001	TN0 89 009 0004	S02
3. Totals: Sum the two columns to the right. Page totals: sum the following two columns		310,122	29			
Final totals: sum all page totals on last page of report						

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

1993 Detail Report for TSDR Facilities

For wastes received from off-site only.

Page 3 of 4

UNITED STATES DEPT. OF ENERGY K-25 SITE

ATTN: LINCOLN E. HALL R.S. EBY

PO BOX 2003

ONK RIDGE, TN 37831-7134

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1636

Also, complete this form when terminating business.

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount shipped in kilograms	Number of shipments	Generator Facility EPA ID number	Transporter EPA ID number	TSDR Handling codes
a. RQ Hazardous Waste Solid, N.O.S. ORM-E (T2)	D009 D018	146	2	TN4 89 180 0001	TN0 89 009 0004	S02
b. RQ Hazardous Waste Solid, N.O.S. ORM-E (C1)	D008	494	3	TN9 89 180 0006	TN0 89 009 0004	S02
c. RQ Hazardous Waste Liquid, N.O.S. ORM-E (C2)	D008	72	1	TN9 89 180 0006	TN0 89 009 0004	S02
d. RQ Hazardous Waste Solid, N.O.S. 9 (A1)	D008	636	1	TND 98 102 6917	TND 98 776 6078	S02
e. RQ Hazardous Waste Solid, N.O.S. 9 (Y18)	D009	227	1	PAD 00 393 5426	NYD 98 076 9947	S02
f. RQ Hazardous Waste Solid, N.O.S. 9 (Y8)	D0MX F0MX	33,790	7	TN3 89 009 0001	TN3 89 009 0001	S01
g. RQ Waste Flammable Liquid, N.O.S. 3 (Y14)	D0MX, F001 F002, F003 F005	24,494	3	TN3 89 009 0001	TN3 89 009 0001	S02 T07
h. RQ Hazardous Waste Liquid, N.O.S. 9 (Y23)	D0MX U0MX F0MX	374,630	25	TN3 89 009 0001	TN3 89 009 0001	S01 S02 T07
3. Totals: Sum the two columns to the right. Page totals: sum the following two columns		434,489	43			
Final totals: sum all page totals on last page of report						

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

1993 Detail Report for TSDR Facilities

For wastes received from off-site only.

Page 4 of 4

END 89 009 0001

UNITED STATES DEPT. OF ENERGY K-25 SITE
 ATTN: LINCOLN E. HALL R.S. EBY
 PO BOX 2003
 OAK RIDGE, TN 37831-7134

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
 Division of Solid Waste Management
 Fifth Floor, L & C Tower
 401 Church Street
 Nashville, Tennessee 37243-1636

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

Date: 02/04

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount shipped in kilograms	Number of shipments	Generator Facility EPA ID number	Transporter EPA ID number	TSDR Handling codes
a. RQ Waste Corrosive Liquid, N.O.S. 8 (D002, D009) (Y24)	D002 D009	51,386	3	TN3 89 009 0001	TN3 89 009 0001	H06
b. RQ Waste Flammable Liquid, N.O.S. 9 (F2)	D001, D008	42,484	3	OH6 89 000 8976	OKD 98 160 5363	T07
c. RQ Waste Flammable Liquid, N.O.S. 9 (F2)	D001, D008	11,394	1	OH6 89 000 8976	TND 98 776 6078	T07
d.						
e.						
f.						
g.						
h.						
3. Totals: Sum the two columns to the right.		105,264	7			
Page totals: sum the following two columns		1,013,271	144			
Final totals: sum all page totals on last page of report						

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

Date: 02/94

SECTION F

Date: 02/94

**UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE
1993 SUMMARY REPORT FOR TSDR FACILITIES**

1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

Page 1 of 20

HD 89-009-0004 YR -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1535

Also, complete this form when terminating business.

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

Date: 02/94

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. K-1420 Nitric Acid (6)	D002,D008	8,850	0	0	8,850	
b. Electroless Nickel Solution (8)	F006, D002,7,9	830	0	0	830	
1st 2. K-1401 Hydrochloric Acid and Rinse Waters (10)	D002,D007	0	0	0	0	
d. K-1401 Alkali (11)	D002,D007, D008	0	0	0	0	
e. K-1501 Hydrogen Softener Blowdown (12)	D002	0	0	0	0	
f. Sodium Hydroxide Solution (18)	D002	20	0	0	20	
g. Sodium Metal (20)	D003,D001	0	0	0	0	
h. Y-12 Returned Waste (21)	F002,D006, D007,D008 D009,D002	0	0	0	0	
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		9,700	0	0	9,700	
Final totals: sum all page totals on last page of report						

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

1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

Page 2 of 20

Date: 02/94

FID 89-009-0004 YH -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1535

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Y-12 Bases Returned (22)	D002,D007, D009,F002	0	0	0	0	
b. K-1401 Diversey (26)	D002,6,7	387	0	0	387	
c. Flammable Liquids (Lab Packs) (35)	D0MX,F0MX, U0MX	1,414	1,010	0	2,424	
d. Corrosive Liquids (Lab Packs) (36)	D002,D0MX, U0MX	995	7,051	0	8,046	
e. Corrosive Solids (Lab Packs) (37)	D002,D0MX	263	0	0	263	
f. Poisonous Liquids (Lab Packs) (38)	U0MX,P0MX, D0MX	5	5	0	10	
g. Poisonous Solids (Lab Packs) (39)	U0MX,D0MX, P0MX	13	4	0	17	
h. Oxidizing Substances, Liquids (Lab Packs) (40)	D0MX,U0MX	33	0	0	33	
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		3,110	8,070	0	11,180	
Final totals: sum all page totals on last page of report						

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1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

FHO 89-009-0004 YN -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: LINCOLN E. HALL R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Page 3 of 20

Date: 02/94

Please complete and return this form to following address:

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Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1535

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2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Test/Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Haz. Waste Liquid (Lab Packs) (41)	DOMX,FOMX, UOMX	139	110	0	249	
b. Waste Oils & waste oils contaminated w/PCBs and/or solvents (42)	DOMX,FOMX, UOMX	572,978	507,184	517,093	563,069	T07
c. Paint Waste (44)	D001,DOMX, FOMX	57,605	1,449	1,608	57,446	T07
d. Uranium Hexafluoride (47)	D002,3	513	0	0	513	
e. Halogenated Gases (49)	D002,3	147	0	0	147	
f. K-1232 Spent Carbon Filter Agent (52)	F001-3	25,284	0	0	25,284	
g. Hazardous Waste Liquid (60)	DOMX,FOMX, UOMX	58,054	6,988	24,488	40,554	T07
h. Centrifuge Epoxies/Resins (62)	D001	7,691	0	0	7,691	
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		722,411	515,731	543,189	694,953	
Final totals: sum all page totals on last page of report						

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

1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

Page 4 of 20

FID 89-009-0004 YN -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

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Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1535

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/ Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. K-1232/CNF Centrifuged Sludge (64)	D0MX,F0MX, U0MX	807,838	116,716	0	924,554	
b. Laboratory Acids (BMP) (70)	D002,D0MX	160,326	20,606	0	180,932	
c. Laboratory Bases (BMP) (71)	D002,D0MX	32,430	2,156	6,136	28,450	SHIPPED
d. Laboratory Organics (BMP) (72)	D0MX,F0MX, U0MX	30,689	7,937	3,577	35,049	T07
e. Laboratory Sludges (BMP) (73)	D0MX,F0MX, U0MX	5,628	3,501	0	9,129	
f. Silver Recovery (74)	D011,D002	10,150	4,957	0	15,107	
g. Benzoyl Peroxides and Organic Peroxides (75)	D003,D001	1	0	0	1	
h. Hydrogen Peroxide (77)	D003,D001	1	0	0	1	
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		1,047,063	155,873	9,713	1,193,223	
Final totals: sum all page totals on last page of report						

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1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

PHO 89-009-0004 YN -Y-Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Page 5 of 20

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1635

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

Date: 02/94

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Mercury/Mercury Products (82)	D009,U151, D008	4,187	243	0	4,430	
b. Rags Contaminated With Solvents (84)	D0MX,F0MX, U080	6,597	159	0	6,756	
c. TSCA Incinerator Ash (85)	D0MX,F0MX, U0MX	114,391	469	0	114,860	
d. Methanol, Perchloroethylene, & Ethylene Glycol Mixture (86)	F003,D001	900	0	495	405	T07
e. Methanol, Perchloroethylene, & Kerosene (87)	F003,D001	901	0	0	901	
f. Methanol & Water (88)	F003,D001	2,000	0	1,473	527	T07
g. Chlorobenzene Mixture (89)	F002	2,718	0	0	2,718	
h. Residual Carbon Tetrachloride & Silicone (90)	F001	25,562	0	0	25,562	
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		157,256	871	1,968	156,159	
Final totals: sum all page totals on last page of report						

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

1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

Page 6 of 20

FD0 89-009-0004 YN -Y-Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1636

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Lead and Lead Products (93)	D008	32,127	1,204	0	33,331	
b. Waste Cyclohexane (103)	D001	0	0	0	0	
c. Diethyl Phthalate (107)	U107	800	0	0	800	
d. Asbestos Covered Lead Pipe (121)	D008	2,318	0	0	2,318	
e. Hazardous Waste Solid (Bulk) (122)	F0MX,D0MX,U0MX	95,490	9,269	0	104,759	
f. Water Reactives (Solids) (123)	D003,D001	1	3	0	4	
g. Waste Oxidizer Corrosive Liquid (124)	D002,3,7,1	1	0	0	1	
h. Waste Compressed Gas, Flammable (125)	D001,U0MX	92	1	0	93	
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		130,829	10,477	0	141,306	
Final totals: sum all page totals on last page of report						

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1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

Page 7 of 20

IND 89-009-0004 YH -Y-Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1635

Also, complete this form when terminating business.

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Waste Sludge From Closure of B/C Pond (126)	F006	34,890,818	0	479,273	34,411,545	H06
b. Flammable Corrosive Solids (Lab Pack) (127)	D001,D002	1	0	0	1	
c. Flammable Solids (Lab Pack) (128)	D001,D003, U0MX	52	5	0	57	
d. Flammable Solids (129)	D001,U0MX, D003	1,773	700	0	2,473	
e. Flammable Corrosive Liquids (Lab Pack) (130)	D001,D002 DOMX	7	0	0	7	
f. Oxidizing Solids (Substance Material) (Lab Pack) (131)	D003,D001	80	17	0	97	
g. Waste Compressed Gas, Nonflammable (132)	D002,D003	13	0	0	13	
h. TSCA and IWS Sludge (133)	DOMX,F0MX, U0MX	275,580	38,137	3,290	310,427	T40;H06
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		35,168,324	38,859	482,563	34,724,620	
Final totals: sum all page totals on last page of report						

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

1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

HRD 89-009-0004 YN -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: LINCOLN E. HALL R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Page 8 of 20

Date: 02/94

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L. C. Tower
401 Church Street
Nashville, Tennessee 37243-1635

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Laundry Sludge (134)	D0MX	35,193	0	0	35,193	
b. Cadmium Coated Cylinders (135)	D006	140	0	0	140	
F-9 Waste From Treatment of Stored Fernald Waste Stream (F1) (136)	F002,D008	0	0	0	0	
d. Waste ORM-A (Lab Pack) (137)	U0MX,D0MX,F0MX	283	2	0	285	
e. Flammable Liquids (Bulk) (138)	D001,D002,D0MX	14,909	3,375	5,066	13,218	T07
f. Combustible Liquids (Bulk) (139)	D001,D0MX,U0MX	13,772	146	13,039	879	T07
g. Hazardous Waste Solid (Lab Pack) (140)	P0MX,U0MX,D0MX,F0MX	824	803	0	1,627	
h. Waste ORM-A (Bulk) (141)	F0MX	5,500	0	46	5,454	T07
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		70,621	4,326	18,151	56,796	
Final totals: sum all page totals on last page of report						
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1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

HHO 89-009-0004 YH -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Page 9 of 20

Date: 02/94

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1636

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Corrosive Liquids (Bulk) (142)	D002,D0MX	23,380	1,028	0	24,408	
b. Waste ORM-B (Lab Pack) (143)	D0MX	0	0	0	0	
110 c. Contam. groundwater collected from vicinity of K-1070 Burial Ground (144)	F039	0	465	0	465	
d. Oily Rags & Solids (145)	D0MX,F0MX,U0MX	27,335	15,058	0	42,393	
e. Laboratory Trash (146)	F0MX,D0MX,U0MX	11,874	2,771	0	14,645	
f. K-1417 Waste Water and rainwater runoff (147)	F006	0	0	0	0	
g. K-1435 TSCA Incinerator Wastewaters (148)	D0MX,F0MX,U0MX	15,950	666	0	16,616	
h. Aerosol cans (149)	D001,D018	2,975	845	0	3,820	
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		81,514	20,833	0	102,347	
Final totals: sum all page totals on last page of report						

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1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

FILE 89-009-0004 YH -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Page 10 of 20

Date: 02/94

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L @ C Tower
401 Church Street
Nashville, Tennessee 37243-1535

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/ Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. K-1417 and K-25 Decant wastewaters (150)	F006	0	0	0	0	
b. Oxidizing Acidic Liquids (bulk) (151)	D002,D001	1,698	0	0	1,698	
c. Oxidizing Liquids (bulk) (152)	D001,D002	142	0	0	142	
d. Oxidizing Solids (bulk) (153)	D001	45	0	0	45	
e. Explosives (154)	D003	0	0	0	0	
f. TSCA Incinerator Trash (155)	D0MX,F0MX, U0MX	22,458	12,287	0	34,745	
g. TSCA Incinerator Secondary Wastes (156)	D0MX,F0MX, U0MX	1,352	521	0	1,873	
h. Respirator Cartridges (157)	D007,F0MX	5,256	566	0	5,822	
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		30,951	13,374	0	44,325	
Final totals: sum all page totals on last page of report						

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1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

Page 11 of 20

FD0 89-009-0004 YH -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

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Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1635

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2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/ Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Batteries (158)	D002,D0MX	9,311	1,604	0	10,915	
b. TSCA Incinerator Solids (159)	D0MX,F0MX, U0MX	104,155	18,683	0	122,838	
P-12 c. Combustible Liquid (Lab Pack) (160)	D001,D0MX	90	0	0	90	
d. Corrosive solids (Bulk) (161)	D002	12,374	616	0	12,990	
e. Waste ORM-B (Bulk) (162)	D0MX,F0MX, U0MX	0	0	0	0	
f. Solvents (163)	F0MX	3,966	0	740	3,226	T07
g. Fluorescent Bulbs (164)	D009,D008	16,474	10,465	0	26,939	
h. Incandescent Bulbs (165)	D008,D009	1,310	2,432	0	3,742	
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		147,680	33,800	740	180,740	
Final totals: sum all page totals on last page of report						

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1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

Page 12 of 20

FILE 89-009-0004 YN -Y Y KNOXVILLE

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, IN 37831-7134

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1636

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Decant Water PWMP (166)	F006	117	6	0	123	
b. Decant Solids PWMP (167)	F006	67	0	0	67	
c. Secondary/Tertiary Waste PWMP (168)	F006	1,096	58,613	0	59,709	
d. Mercury Vapor Bulbs (169)	D008,D009	0	43	0	43	
e. PCB Auto-Sample Vials (170)	F0MX,F0MX	0	115	0	115	
f. TSCA Inc. Rinse Residues (171)	F0MX,D0MX, P0MX,U0MX	0	69,083	69,083	0	T07
g. Sodium Vapor-Filled Bulbs (172)	D003,D008	0	5	0	5	
h. Photo Waste (K-1035) (173)	D011	0	0	0	0	
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		1,280	127,865	69,083	60,062	
Final totals: sum all page totals on last page of report						

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1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

Page 13 of 20

FID 89-009-0004 YN -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
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PO BOX 2003
OAK RIDGE, TN 37831-7134

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Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1635

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Hazardous Waste Solid, N.O.S. Radioactive Material (Y1)	D007	104,324	0	0	104,324	
b. Hazardous Waste Solid, N.O.S. ORM-E (Y2)	F001	3,618	0	0	3,618	
c. Waste Tetrachloroethylene ORM-A (Y3)	F001	14,394	0	0	14,394	
d. Hazardous Waste Solid, N.O.S. ORM-E (Y4)	F006,7 D006,7,9	385,070	0	0	385,070	
e. Hazardous Waste Solid, N.O.S. ORM-E (Y5)	F006,D007	89,218	0	0	89,218	
f. Hazardous Waste Solid, N.O.S. Radioactive Material (Y6)	D008,9,F002	11,273	0	0	11,273	
g. Hazardous Waste Substance, N.O.S. Radioactive Material (Y7)	D007-9	2,455	0	0	2,455	
h. RQ Hazardous Waste Solid, N.O.S. 9 (Y8)	D006-9, F002,D0MX, F0MX	52,200	33,790	0	85,990	
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		662,552	33,790	0	696,342	
Final totals: sum all page totals on last page of report						

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1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

Page 14 of 20

Date: 02/94

FHO 89-009-0004 YH -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1535

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Test/Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Hazardous Waste Solid, N.O.S. ORM-E (Y9)	D004-9,11	28,402	0	0	28,402	
b. Waste Acetonitrile, Flammable Liquid (Y10)	D001	6,433	0	280	6,153	T07
P-15 c. Hazardous Waste Liquid, N.O.S. ORM-E (Y11)	D001,F001	1,698	0	0	1,698	
d. Hazardous Waste Solid, N.O.S. ORM-E (Y12)	F001,F002,F006,F007	15,751	0	0	15,751	
e. Hazardous Waste Solid, N.O.S. ORM-E (Y13)	F001-3	682	0	0	682	
f. RQ Waste Flammable Liquid, N.O.S. 3 (Y14)	D001,D0MX,F001,2,3,5	27,847	24,494	24,494	27,847	S02 T07
g. Hazardous Waste Solid, N.O.S. Radioact. Mat. (Y15)	D001	1,481	0	0	1,481	
h. Hazardous Waste Solid, N.O.S. Radioact. Mat. (Y16)	F001,D001	2,114	0	0	2,114	
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		84,408	24,494	24,774	84,128	
Final totals: sum all page totals on last page of report						

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

1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

Page 15 of 20

FID 89-009-0004 YH -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1636

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

Date: 02/94

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Hazardous Waste Solid, N.O.S. ORM-E (Y17)	D006	7,455	0	0	7,455	
b. RQ Hazardous Waste Solid, N.O.S. 9 (Y18)	D009	248,343	227	0	248,570	
F-16 c. Hazardous Waste Solid, N.O.S. Radioact. Mat. (Y19)	D008	49,091	0	0	49,091	
d. Hazardous Waste Solid, N.O.S. ORM-E (Y20)	F002	1,391	0	0	1,391	
e. Waste ORM-A Solution (Y21)	D0MX, F001-3,5	0	0	0	0	
f. Hazardous Waste Solid, N.O.S. (limited qty radioactive material) ORM-E (Y22)	F006,D007, D008,F001,2	1,070	0	0	1,070	
g. RQ Hazardous Waste Liquid, N.O.S. 9 (Y23)	D0MX,U0MX, F0MX	0	374,630	306,927	67,703	S01, S02, T07 SHIPPED (25,074 kg)
h. RQ Waste Corrosive Liquid, N.O.S. 8 (D002,D009) (Y24)	D002,D009	7,074	51,386	51,386	7,074	H06
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		314,424	426,243	358,313	382,354	
Final totals: sum all page totals on last page of report						

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

1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

FILE 89-009-0004 YN - Y Y KNOXVILLE

UNITED STATES DEPT. OF ENERGY K-25 SITE
ATTN: LINCOLN E. HALL R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1536

Please complete and return this form to following address:
Also, complete this form when terminating business.
For technical assistance, call 1 (800) 237-7018 in Tennessee only.

Date: 02/94

Page 16 of 20

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Recd/ Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Waste Combustible Liquid, N.O.S. (Y26)	DOMX, F001-3.5	6,797	0	0	6,797	
b. Waste Trichloroethylene ORM-A (P1)	F001	5,494	0	0	5,494	
1.2 Waste 1,1,1-Trichloroethane ORM-A (P2)	F001	3,465	0	0	3,465	
d. Hazardous Waste Liquid, N.O.S. ORM-E (P3)	F002	2,891	0	0	2,891	
a. Hazardous Waste Liquid, N.O.S. ORM-E (P4)	D008	8,681	0	0	8,681	
i. Hazardous Waste Solid, N.O.S. ORM-E (P5)	D008	7,845	0	0	7,845	
g. Hazardous Waste Liquid, N.O.S. ORM-E (P6)	D006,D008	4,732	0	0	4,732	
h. Hazardous Waste Liquid, N.O.S. ORM-E (P7)	D018,F001	0	0	0	0	
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		39,905	0	0	39,905	
4. Certification: I certify that the above information is true, accurate and complete. (Sign by generator and give title and date.)						

1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

Page 17 of 20

HHO 89-009-0004 YH -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1636

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Waste Oil, N.O.S., Combustible Liquid (P8)	D001,D0MX, F001-3,5	0	0	0	0	
b. RQ Waste Flammable Liquid, N.O.S. 3 (P9)	D001,D004, D006,D008, D010,D018	0	12,539	12,539	0	T07
c. RQ Hazardous Waste Liquid, N.O.S. ORM-E (D018, PCB) (P10)	D018	168,700	277,857	412,594	33,963	T07
d. RQ Hazardous Waste Liquid, N.O.S. 9 (P11)	D004,8,10,18 22,35,39,40	0	11,377	11,377	0	T07
e. Waste Radioactive Material, LSA, N.O.S. Radioactive Material (R1)	D008	18,558	0	8,253	10,305	T07
f. Waste Radioactive Material, N.O.S. Radioactive material (R2)	F001	0	0	0	0	
g. Hazardous Waste Liquid, N.O.S. ORM-E (PD1)	D008,D009	0	0	0	0	
h. RQ Waste Environmentally Hazardous, Substances, Liquid, N.O.S. 9 (PD2)	F001,D0MX	9,825	38,993	48,818	0	T07
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		197,083	340,766	493,581	44,268	
Final totals: sum all page totals on last page of report						

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

1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

FILE 89-009-0004 YH -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Page 18 of 20

Date: 02/94

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1535

Also, complete this form when terminating business.

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/ Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. Hazardous Waste Liquid, N.O.S. ORM-E (F1)	F002,D008	917	0	0	917	
b. RQ Waste Flammable Liquid, N.O.S. 9 (F2)	D001,D008	0	53,878	53,878	0	T07
c. RQ Hazardous Waste Solid, N.O.S. 9 (A1)	D008	0	636	0	636	
d. RQ Hazardous Waste Solid, N.O.S. ORM-E (C1)	D008,9,18, F001	5,104	494	0	5,598	
e. RQ Hazardous Waste Liquid, N.O.S. ORM-E (C2)	D008	3,068	72	0	3,140	
f. Waste Flammable Liquid, N.O.S. flammable liquid (C3)	D001,D008	36	0	0	36	
g. Battery, Wet, Filled w/Acid, Corrosive (C4)	D002,D008	9	0	0	9	
h. RQ Hazardous Waste Liquid, N.O.S. ORM-E (T1)	D018,D0MX	3,050	2,290	194	5,146	T07
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		12,184	57,370	54,072	15,482	
Final totals: sum all page totals on last page of report						

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

1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

FINO 89-009-0004 YN -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Page 19 of 20

Date: 02/94

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1636

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

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/ Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. RQ Hazardous Waste Solid, N.O.S. ORM-E (T2)	D009,D018, D006	1,480	146	0	1,626	
b. Waste Hazardous Subs., Liq., N.O.S. ORM-E (X1)	D002,7,9	440	0	0	440	
f-20 c. RQ Waste Flammable Liquids, N.O.S. 3 (X2)	D0MX,P0MX, F0MX,U0MX	0	37,041	0	37,041	
d. RQ Waste Combustible Liquid, N.O.S. 3 (X3)	D0MX,F0MX, U0MX	0	3,934	0	3,934	
e. Waste Oil, N.O.S., Combustible Liquid, (X4)	D0MX, F001,2,5	17,114	0	0	17,114	
f. RQ Hazardous Waste Solid, N.O.S. 9 (X5)	D0MX,F0MX, P0MX,U0MX	12,628	21,773	0	34,401	
g. Waste Oxidizing Substances, Solid, Poisonous N.O.S. (X6)	D001,D005, D006,D007, D008,D011	356	409	0	765	
h. Waste Mercury 8, Hazardous Waste Solid, N.O.S. (X7)	D009,U151, D008	1,094	1,973	0	3,067	
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		33,112	65,276	0	98,388	
Final totals: sum all page totals on last page of report						

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

1993 Summary Report for TSDR Facilities

For all permitted or interim status facilities.

Page 20 of 20

IR0 89-009-0004 YN -Y Y Knoxville

UNITED STATES DEPT. OF ENERGY K-25 SITE
Attn: ~~LINCOLN E. HALL~~ R.S. EBY
PO BOX 2003
OAK RIDGE, TN 37831-7134

Please complete and return this form to following address:

Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Fifth Floor, L & C Tower
401 Church Street
Nashville, Tennessee 37243-1635

Also, complete this form when terminating business.

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

Date:

02/94

F-21

2. Dot Shipping Name or Waste name	EPA Waste codes	Amount Onsite Begin of Year	Amount Received	Amount Treat/Disposed/Ship	Amount Onsite End of Year	Treatment/Disposed Handling Codes
a. RQ Waste Characoal, Shell, Flammable Solid (X8)	D001,D018,P015	405	113	0	518	
b. RQ Hazardous Waste Liquid, N.O.S. 9 (X9)	D0MX,F0MX,U0MX	0	59,160	0	59,160	
c. Waste Formalin Solution ORM-A (X10)	U122	122	47	0	169	
d. RQ Waste Corrosive Solid, N.O.S. Corrosive Material (X11)	D005	0	2,401	0	2,401	
e. RQ Waste Corrosive Liquid, N.O.S. Corrosive Material (X12)	D002,D0MX,U134	0	1,453	0	1,453	
f. RQ Waste Poison B, Liquid N.O.S. Poison B (X13)	D0MX,F0MX,P0MX,U0MX	0	2,158	0	2,158	
g.						
h.						
3. Totals: Sum the four columns to the right. Page totals: sum the following four columns		527	65,332	0	65,859	
Final totals: sum all page totals on last page of report		38,914,934	1,943,350	2,056,147	38,802,137	

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

Date: 02/94

SECTION G

Date: 02/94

**UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE
1993 WASTE STREAM REPORT**

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. K-1420 NITRIC ACID		Waste Stream number 6	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1944 —		Date no longer generated. (MM/DD/YY)	
		Frequency of generation (V) Continuous ☐ Accidental/ One time ☒ Various ☐	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>BC</u>		EPA waste codes. (Primary first; six maximum.) D002.D008	
		SIC code for generating process. 2819.	
5. Physical form Liq-Watr (2)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 12.000
			If used for fuel, chlorine content (PPM) 0.0
			BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 8,850.0		Annual average (kg) 2,950.0 ☒	
		Maximum amount stored on-site (kg) 8,850.0	
		Maximum days stored 90	
7. DOT shipping name NOT TRANSPORTED OFF-SITE.#		DOT hazard class O R M - E	
		DOT ID code 12 #	

8. Describe generation process.

WASTE GENERATED FROM ELECTROLESS PLATING OPERATIONS. THIS IS A MIXED WASTE.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH 2.5	Flash point	Reactive code	% volume(), % weight(), PPM() (V)
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.	NITRIC ACID	50	55
b.	WATER	45	50
c.	LEAD	6.1PP	5.1
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)	
1993	0	0	0	
a	Total Handled <u>Offsite</u>	TSDR handling/Waste management methods	b: Amount Handled <u>Onsite</u>	TSDR handling/Waste management methods
c	Amount Handled <u>Onsite</u>	TSDR handling/Waste management methods	d: Amount Handled <u>Onsite</u>	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (fX)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a (No NA Yes)	g. High costs of haz. waste mgt. g (No NA Yes)
b. Technical feasibility b (No NA Yes)	h. Accidental generation h (No NA Yes)
c. Economic practicality c (No NA Yes)	i. Other - describe here: i (No NA Yes)
d. Measurement/accounting methods d (No NA Yes)	
e. TN hazardous waste regulations e (No NA Yes)	
f. Implementation experience f (No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

STREAM NOT GENERATED THIS YEAR AND LIKELY WILL NOT BE GENERATED IN THE FUTURE.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).					Status Further Reporting Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct. Certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. ELECTROLESS NICKEL SOLUTION				Waste Stream number 8	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time	
1944-					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>8C</u>				EPA waste codes. (Primary first; six maximum.) <u>D002, D007, D009, F006</u>	
				SIC code for generating process. 2819.	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM)	BTU per pound
Liq-Watr (2)	.0	.0	10.000	0.0	0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg)			Annual average (kg)	Maximum amount stored on-site (kg)	Maximum days stored
277.0			277.0 0	500.0	90
7. DOT shipping name HAZARDOUS WASTE LIQUID, NDS			DOT hazard class O R M - E	DOT ID code 12	9189
8. Describe generation process. USED TO NICKEL PLATE PARTS. THIS IS A MIXED WASTE					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM() (V)	
pH	Flash point	Reactive code		
2				
Major and hazardous constituents. Give range of values at right.			Lower value	Upper value
a.	NITRIC ACID		53	53
b.	WATER		47	47
c.	CHROMIUM		0	5.1
d.				
e.				

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	0	0	0

Total Handled OFFsite	TSDR handling/Waste management methods	Amount Handled ONSite	TSDR handling/Waste management methods
a		b	

Amount Handled ONSite	TSDR handling/Waste management methods	Amount Handled ONSite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (fX)
c. Equipment/technology modification (c)	h. Other - briefly explain here (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a) (No NA Yes)	g. High costs of haz. waste mgt. (g) (No NA Yes)
b. Technical feasibility (b) (No NA Yes)	h. Accidental generation (h) (No NA Yes)
c. Economic practicality (c) (No NA Yes)	i. Other - describe here: (i) (No NA Yes)
d. Measurement/accounting methods (d) (No NA Yes)	
e. TN hazardous waste regulations (e) (No NA Yes)	
f. Implementation experience (f) (No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

STREAM WAS NOT GENERATED AND LIKELY WILL NOT BE
GENERATED IN FUTURE

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)

TITLE:

DATE:

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

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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
--	----------------------------------

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. K-1401 HYDROCHLORIC ACID AND RINSE WATERS				Waste Stream number 10	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (V)	
1944- 1989		12/31/89		Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). B, C				EPA waste codes. (Primary first; six maximum.) D002.D007	
				SIC code for generating process. 2819.	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM) BTU per pound	
Liq-Watr (2)	.0	.0	10.000	0.0 0.0	
6. Generation rates. Supply all rates in kilograms.			Maximum amount stored on-site; Maximum days stored		
Monthly maximum (kg)		Annual average (kg)	(kg)		
32,818.0		32,818.0 ☒	32,818.0		90
7. DOT shipping name HAZARDOUS WASTE LIQUID, NOS			DOT hazard class Corrosive		DOT ID code 02 9189

8. Describe generation process.

METAL CLEANING PROCESS. WASTE GENERATED DURING METALS CLEANING OPERATION. THIS IS A MIXED WASTE.

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH 0.5	Flash point	Reactive code	% volume(), % weight(), PPM()	
Major and hazardous constituents. Give range or values at right.			lower value	upper value
a. HYDROCHLORIC ACID			26VOL	38VOL
b. IODINE			40VOL	50VOL
c. WATER			20VOL	25VOL
d. FORMALDEHYDE			6VOL	10VOL
e. CHROMIUM			10PPM	20PPM

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)	
1993	0	0	0	
a	Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c	Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio Goal year's ratio Goal Year If no numeric goal has been set, describe your efforts to set one in line 15 below.

0

0

NA

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (fX)
c. Equipment/technology modification (c)	h. Other - briefly explain here (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a) (No) NA (Yes)	g. High costs of haz. waste mgt. (g) (No) NA (Yes)
b. Technical feasibility (b) (No) NA (Yes)	h. Accidental generation (h) (No) NA (Yes)
c. Economic practicality (c) (No) NA (Yes)	i. Other - describe here: (i) (No) NA (Yes)
d. Measurement/accounting methods (d) (No) NA (Yes)	
e. TN hazardous waste regulations (e) (No) NA (Yes)	
f. Implementation experience (f) (No) NA (Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

STREAM WAS NOT GENERATED AND LIKELY WILL NOT BE GENERATED IN FUTURE.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)

TITLE:

DATE:

Below is for Department use only.

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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct. Certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. K-1401 ALKALI		Waste Stream number 11	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1944- 1989		Date no longer generated. (MM/DD/YY) 12/31/89	
		Frequency of generation (V) Continuous ☐ Accidental/ One time ☒ Various ☐	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g)-B,C		EPA waste codes. (Primary first; six maximum.) D002,D007,D008	
		SIC code for generating process. 2819,	
5. Physical form Liq-Watr (2)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 10.000
		If used for fuel, chlorine content (PPM) 0.0	
		BTU per pound 0.0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 24,261.0		Annual average (kg) 24,261.0 0	
		Maximum amount stored on-site (kg) 24,261.0	
		Maximum days stored 90	
7. DOT shipping name HAZARDOUS WASTE LIQUID, NOS		DOT hazard class Corrosive	
		DOT ID code 02 3189	

8. Describe generation process.

METAL CLEANING PROCESS. WASTE GENERATED DURING METALS CLEANING OPERATION. THIS IS A MIXED WASTE.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH	Flash point	Reactive code	
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a.	SODIUM HYDROXIDE	30V	40V
b.	WATER	60V	70V
c.	CHROMIUM	4	6
d.	LEAD	60	70
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)	
1993	0	0	0	
a	Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c	Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio Goal year's ratio Goal Year If no numeric goal has been set, describe your efforts to set one in line 15 below.

0

0

NA

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

STREAM WAS NOT GENERATED THIS YEAR AND LIKELY
WILL NOT BE GENERATED IN THE FUTURE.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)

TITLE:

DATE:

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

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); Corrective Action (C); Waste water Rx (W).	Status	Further Reporting
		Y N

18. Comments.

100

Tennessee Department of Environment and Conservation, Division of Solid Waste Management,
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

8. Describe generation process.

WASTE GENERATED FROM A ZEOLITE BACKWASH SOLUTION FOR WATER SOFTENING AT THE STEAM PLANT. THIS IS A PURE WASTE.

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	6,426,187	0	0

Total Handled OFFsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
a		b 6,426,187	H06

Amount Handled ONsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
76.5	94.1	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (fX)
c. Equipment/technology modification (c)	h. Other - briefly explain here (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here: (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

This is a wastewater stream. Reduction in waste generation can be attributed to improved waste accounting and measurement capability for this stream.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. SODIUM METAL				Waste Stream number 20	
3. Give the years that this waste has been generated, e.g. 1975, 1982- 1983-		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous _____ Accidental/One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>EAC</u>		EPA waste codes. (Primary first; six maximum.) <u>0003.D001</u>		SIC code for generating process. <u>2819.</u>	
5. Physical form <u>Sld:Othr (9)</u>	% Solid <u>100.0</u>	% Water <u>.0</u>	Vol. to wt. conversion (pounds/gallon) <u>8.000</u>	If used for fuel, chlorine content (PPM) <u>0.0</u>	BTU per pound <u>0.0</u>
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) <u>11.0</u>		Annual average (kg) <u>11.0 0</u>		Maximum amount stored on-site (kg) <u>15.0</u>	Maximum days stored <u>90</u>
7. DOT shipping name <u>WASTE, SODIUM, METAL</u>			DOT hazard class <u>Flam. solid</u>	<u>08</u>	DOT ID code <u>1428</u>

8. Describe generation process.

MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(<u>XX</u>), PPM() (W)	
pH	Flash point	Reactive code		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a. <u>SODIUM METAL</u>			<u>100</u>	<u>100</u>
b.				
c.				
d.				
e.				

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) ○	Amount on-site in temporary storage on the first day of year (kg) ○	Amount on-site in temporary storage on the last day of year (kg) ○	
a. Total Handled OFFsite		TSDR handling/Waste management methods	b. Amount Handled ONsite	TSDR handling/Waste management methods
c. Amount Handled ONsite		TSDR handling/Waste management methods	d. Amount Handled ONsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
○	○	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (fX)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt. g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here: i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. TN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

STREAM WAS NOT GENERATED THIS YEAR AND WILL NOT BE GENERATED ON A REGULAR BASIS.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management,
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless, retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. Y-12 RETURNED WASTE			
3. Give the years that this waste has been generated, e.g. 1975, 1982-1984-1987		Date no longer generated. (MM/DD/YY) 12/31/87	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g) - gfc		EPA waste codes. (Primary first; six maximum.) F002, D006, D007, D008, D009, D002	
5. Physical form Liq-Water (2)		If used for fuel, chlorine content (PPM) 0.0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 200,000.0 Annual average (kg) 0.0		Maximum amount stored on-site (kg) 58,909.0	
7. DOT shipping name HAZARDOUS WASTE LIQUIDS N.O.S.		DOT hazard class ORM - E	
8. Describe generation process. WASTE STREAM GENERATED FROM TREATMENT OF DOE Y-12 SITE WASTE. THIS IS A MIXED WASTE.		DOT ID code 9189	

9. Chemical Characteristics.		Reactive code		Flash point		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (), % weight (), PPM (X)	
a. CHROMIUM		0		9100		upper value	
b. LEAD		0		17			
c. CADMIUM		0		32			
d. WATER		90V0L		95V0L			
e. MERCURY		0		4			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.							

ON-0773 (11/92)

Form continues on the back

Printed on recycled paper (1)

Date: 02/94

1. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "TM", "SM", or "DM" codes from the instructions. For other handling, use "H" codes.

Report year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)	
1993	0	0	0	
a	Total Handled <u>Offsite</u>	TSDR handling/Waste management methods	b Amount Handled <u>Onsite</u>	TSDR handling/Waste management methods
c	Amount Handled <u>Onsite</u>	TSDR handling/Waste management methods	d Amount Handled <u>Onsite</u>	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

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

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No ☒ Yes)	g. High costs of haz. waste mgt g(No ☒ Yes)
b. Technical feasibility b(No ☒ Yes)	h. Accidental generation h(No ☒ Yes)
c. Economic practicality c(No ☒ Yes)	i. Other - describe here: i(No ☒ Yes)
d. Measurement/accounting methods d(No ☒ Yes)	
e. TN hazardous waste regulations e(No ☒ Yes)	
f. Implementation experience f(No ☒ Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

WASTE WAS NOT GENERATED THIS YEAR AND LIKELY
WILL NOT BE GENERATED IN THE FUTURE.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status	Further Reporting
		Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. Y-12 BASES RETURNED				Waste Stream number 22	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1984- 1987		Date no longer generated. (MM/DD/YY) 12/31/87		Frequency of generation (V) Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). BCF		EPA waste codes. (Primary first; six maximum.) D002, D007, D009, F002		SIC code for generating process. 2819,	
5. Physical form Liq-Watr (2)	% Solid 10.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 8.400	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 74,330.0		Annual average (kg) 0.0		Maximum amount stored on-site (kg) 0.0	Maximum days stored 10
7. DOT shipping name WASTE ALKALINE, LIQUID, NOS		DOT hazard class Corrosive		DOT ID code 02	1719
8. Describe generation process. WASTE STREAM GENERATED FROM TREATMENT OF DOE Y-12 SITE WASTE THIS IS A MIXED WASTE.					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH 10	Flash point	Reactive code	(X) (2)
Major and hazardous constituents. Give range or values at right.		Lower value	Upper value
a.	SPENT HALOGENATED SOLVENTS	2V	40V
b.	CHROMIUM	3	9100
c.	MERCURY	0P	2.7P
d.	WATER	60V	98V
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 0	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0	
a. Total Handled OFFsite		TSDR handling/Waste management methods	b. Amount Handled ONsite	TSDR handling/Waste management methods
c. Amount Handled ONsite		TSDR handling/Waste management methods	d. Amount Handled ONsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 0	Goal year's ratio 0	Goal Year NA	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here: i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. TN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

WASTE NOT GENERATED THIS YEAR AND LIKELY WILL NOT BE GENERATED IN FUTURE.

16. Certification: I certify that the information given on this form 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? Yes No	Test results? Yes No	Reasonable? Yes No	Follow up Yes No	Initials
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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); Corrective Action (C); Waste water Rx (W).	Status	Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. K-1401 DIVERSEY				Waste Stream number 26	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1944-		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g) - CB		EPA waste codes. (Primary first; six maximum.) 0002, 0006, 0007		SIC code for generating process. 2819.	
5. Physical form Liq-Watr (2)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 48.0		Annual average (kg) 44.0		Maximum amount stored on-site (kg) 2,791.0	Maximum days stored 90
7. DOT shipping name WASTE CORROSIVE LIQUID, NDS			DOT hazard class Corrosive	DOT ID code 02	1760
8. Describe generation process. WASTE GENERATED DURING METALS CLEANING OPERATION. THIS IS AMIXED WASTE.					

9. Chemical Characteristics.		Flash point		Reactive code		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (), % weight (), PPM () (V)	
OH C.E.							
Major and hazardous constituents. Give range or values at right.				Lower value		Upper value	
a. SODIUM BISULFATE				20V		30V	
b. WATER				70V		80V	
c.							
d.							
e.							
10. If this waste is recovered, reclaimed, recycled or reused, describe how.							

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	0	0	0

Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
a		b	

Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

WASTE NOT GENERATED THIS YEAR AND LIKELY WILL NOT
BE GENERATED IN THE FUTURE.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status	Further Reporting
		Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. FLAMMABLE LIQUIDS (LAB PACKS)				Waste Stream number 35	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1944-		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>AFC</u>		EPA waste codes. (Primary first; six maximum.) DOMX, FOMX, UOMX		SIC code for generating process. 2819,	
5. Physical form Liq-Othr (3)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 9.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 311.0 970			Annual average (kg) 56.0 734	Maximum amount stored on-site (kg) 311.0 970	Maximum days stored 90
7. DOT shipping name WASTE FLAMMABLE LIQUIDS, N.O.S.			DOT hazard class Flam. liquid	DOT ID code 07	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.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (X), % weight (), PPM ()	
pH	Flash point 140	Reactive code	
Major and hazardous constituents. Give range or values at right.		Lower value	Upper value
a. LABORATORY AND PROCESS CHEMICALS		0	100
b.			
c.			
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	970	40	0

Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
a		b 1,010	SO1

Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
115.5	47.8	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (dX)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a) No NA Yes	g. High costs of haz. waste mgt. (g) No NA Yes
b. Technical feasibility (b) No NA Yes	h. Accidental generation (h) No NA Yes
c. Economic practicality (c) No NA Yes	i. Other - describe here: (i) No NA Yes
d. Measurement/accounting methods (d) No NA Yes	
e. TN hazardous waste regulations (e) No NA Yes	
f. Implementation experience (f) No NA Yes	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generation is dependent on facility decommissioning activities

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)

TITLE:

DATE:

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

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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. CORROSIVE LIQUIDS (LAB PACKS)		Waste Stream number 36			
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1986		Date no longer generated. (MM/DD/YY)	Frequency of generation (V) Continuous Accidental/ Various One time		
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>C</u>		EPA waste codes. (Primary first; six maximum.) D002.D0MX,U0MX	SIC code for generating process. 2819.		
5. Physical form Liq-Watr (2)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 10.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 300.0 7,112		Annual average (kg) 100.0 2,526	Maximum amount stored on-site (kg) 300.0 7,112	Maximum days stored 90	
7. DOT shipping name WASTE CORROSIVE LIQUIDS, N.O.S.		DOT hazard class Corrosive	DOT ID code 02	1760	
8. Describe generation process. LAB PACKS ARE MADE UP OF SMALL QUANTITIES OF CORROSIVE MATERIALS GENERATED DURING PLANT OPERATIONS.					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH 12.5	Flash point	Reactive code	% volume(), % weight(), PPM() (V)
Major and hazardous constituents. Give range of values at right.		Lower value	Upper value
a. LABORATORY AND PROCESS CHEMICALS		0	100
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 7,112	Amount on-site in temporary storage on the first day of year (kg) 1	Amount on-site in temporary storage on the last day of year (kg) 62
a. Total Handled Offsite		TSDR handling/Waste management methods	
b. Amount Handled Onsite 7,051		TSDR handling/Waste management methods Sol	
c. Amount Handled Onsite		TSDR handling/Waste management methods	
d. Amount Handled Onsite		TSDR handling/Waste management methods	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 846.6	Goal year's ratio 18.5	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here: i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. TN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generation is dependent on facility decommissioning activities.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct. Certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. CORROSIVE SOLID LAB PACKS		Waste Stream number 37			
3. Give the years that this waste has been generated, e.g. 1975, 1982- 1944-		Date no longer generated. (MM/DD/YY)			
		Frequency of generation (V) Continuous Accidental/ Various One time			
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). c		EPA waste codes. (Primary first; six maximum.) 0002.D0MX			
		SIC code for generating process. 2819.			
5. Physical form Sld:Gran (8)	% Solid 100.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 0.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 101.0		Annual average (kg) 126.0 87		Maximum amount stored on-site (kg) 101.0	Maximum days stored 90
7. DOT shipping name WASTE CORROSIVE SOLIDS, N.O.S.		DOT hazard class Corrosive		DOT ID code 32 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.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
PH 12.5	Flash point	Reactive code	
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a.	SODIUM HYDROXIDE	0	100
b.	SODIUM BIFLUORIDE	0	100
c.			
d.			
e.			

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

AIIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

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BY APPLIED IMAGE, INC.

2 of 3

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	0	0	0

Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
a		b	

Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	18.0	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (f)
c. Equipment/technology modification (c)	h. Other - briefly explain here (g)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

No waste generated this year. Waste generation dependent on facility decommissioning activities.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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:	Further Reporting
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); Corrective Action (C); Waste water Rx (W).	Y N

18. Comments.

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Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

1. Organization's full name at facility.
UNITED STATES DEPT. OF ENERGY K-25 SITE

EPA identification code
TNO 89-009-0004

2. Waste name. Use standard name from regulations whenever possible.
POISONOUS LIQUIDS (LAB PACKS)

Waste Stream number
38

3. Give the years that this waste has been generated, e.g. 1975, 1982-.	Date no longer generated. (MM/DD/YY)
1944 —	

Frequency of generation		(V)
Continuous	Accidental/	<u>Various</u>
	One time	

4. Circle all appropriate hazard criteria below.
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f), TCLP (g). ACE

EPA waste codes. (Primary first;
six maximum.)

UOMX, POMX, DOMX

SIC code for generating process.

2819,

5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel,	
				chlorine content (PPM)	BTU per pound
Liq-Othr (3)	10.0	.0	8.000	0.0	0.0

6. Generation rates. Supply all rates in kilograms.		Maximum amount stored on-site	Maximum days stored
Monthly maximum (kg)	Annual average (kg)	(kg)	
26.0	3.0	26.0	90

7. DOT shipping name	DOT hazard class	DOT ID code
WASTE POISONOUS LIQUIDS, N.O.S.	Poison 8	15 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.

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM.
pH	Flash point	Reactive code	% volume(), % weight(), PPM()

Major and hazardous constituents. Give range or values at right.

lower value	upper value
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

a. SODIUM CYANIDE

0 100

b. POTASSIUM CYANIDE

0 :00

C. COPPER SULFATE

0 :00

d. VARIOUS LABORATORY CHEMICALS

0	100
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10. If this waste is recovered, reclaimed, recycled or reused, describe how.

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	5	0	0

Total Handled OFFsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
a		b 5	SoI

Amount Handled ONsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
59.5	55.9	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (f)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (g)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt. g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here: i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. TN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generation dependent on facility decommissioning activities.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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:	Further Reporting
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); Corrective Action (C); Waste water Rx (W).	Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct. Certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. POISONOUS SOLIDS LAB PACK		Waste Stream number 39	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.	Date no longer generated. (MM/DD/YY)	Frequency of generation (V) Continuous Accidental/ Various One time	
1944 —			
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).f		EPA waste codes. (Primary first; six maximum.) UOMX, DOMX, POMX	SIC code for generating process. 2819,
5. Physical form Sld:Othr (9)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 8.000
			If used for fuel, chlorine content (PPM) 0.0
			BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 6.0		Annual average (kg) 6.0 5	Maximum amount stored on-site (kg) 6.0
			Maximum days stored 90
7. DOT shipping name WASTE POISONOUS SOLIDS. N.O.S.		DOT hazard class Poison 8	DOT ID code 15 UN2811

8. Describe generation process.

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

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH	Flash point	Reactive code	
Major and hazardous constituents. Give range of values at right.		Lower value	Upper value
a.	CYANIDE SOLIDS	0	100
b.	MERCURIC SALTS (SOLIDS)	0	100
c.			
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	4	0	0

Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
a		4	Sol

Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
47.6	44.7	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a) (No NA Yes)	g. High costs of haz. waste mgt. (g) (No NA Yes)
b. Technical feasibility (b) (No NA Yes)	h. Accidental generation (h) (No NA Yes)
c. Economic practicality (c) (No NA Yes)	i. Other - describe here: (i) (No NA Yes)
d. Measurement/accounting methods (d) (No NA Yes)	
e. TN hazardous waste regulations (e) (No NA Yes)	
f. Implementation experience (f) (No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generation dependent on facility decommissioning activities.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. OXIDIZING SUBSTANCES LIQUID (LAB PACKS)		Waste Stream number 40			
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1944-	Date no longer generated. (MM/DD/YY)	Frequency of generation (V) Continuous Accidental/ Various One time			
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). AFE	EPA waste codes. (Primary first; six maximum.) DOMX, UOMX	SIC code for generating process. 2819.			
5. Physical form Liq-Othr (3)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 9.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 18.0	Annual average (kg) 22.0 14	Maximum amount stored on-site (kg) 18.0	Maximum days stored 90		
7. DOT shipping name WASTE OXIDIZER	DOT hazard class Oxidizer	DOT ID code 13	DOT ID code 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.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume (), % weight (), PPM () (V)
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a. VARIOUS LABORATORY PROCESS CHEMICALS		0	100
b.			
c.			
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	5	0	5

a	Total Handled Offsite	TSDR handling/Waste management methods	b	Amount Handled Onsite	TSDR handling/Waste management methods

c	Amount Handled Onsite	TSDR handling/Waste management methods	d	Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
6.0	21.2	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a) No NA Yes	g. High costs of haz. waste mgt. (g) No NA Yes
b. Technical feasibility (b) No NA Yes	h. Accidental generation (h) No NA Yes
c. Economic practicality (c) No NA Yes	i. Other - describe here: (i) No NA Yes
d. Measurement/accounting methods (d) No NA Yes	
e. TN hazardous waste regulations (e) No NA Yes	
f. Implementation experience (f) No NA Yes	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generation dependent on facility decommissioning activities.

16. Certification: I certify that the information given on this form 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:	Further Reporting
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); Corrective Action (C); Waste water Rx (W).	Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. HAZARDOUS WASTE LIQUIDS LAB PACKS		Waste Stream number 41	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.	Date no longer generated. (MM/DD/YY)	Frequency of generation (V) Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). FA	EPA waste codes. (Primary first; six maximum.) DOMX FOMX, UOMX	SIC code for generating process. 2819.	
5. Physical form Liq-0thr (3)	% Solid 10.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 10.000
		If used for fuel, chlorine content (PPM) 0.0	
		BTU per pound 0.0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 24.0 107	Annual average (kg) 87.0 61	Maximum amount stored on-site (kg) 24.0 107	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE LIQUID	DOT hazard class ORM - E	DOT ID code 12	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.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume(), % weight(), PPM() (V)
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.	VARIOUS LABORATORY, PROCESS CHEMICALS	0	100
b.			
c.			
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 107	Amount on-site in temporary storage on the first day of year (kg) 3	Amount on-site in temporary storage on the last day of year (kg) 0
a. Total Handled Offsite		TSDR handling/Waste management methods	b. Amount Handled Onsite 110
			TSDR handling/Waste management methods SOL
c. Amount Handled Onsite		TSDR handling/Waste management methods	d. Amount Handled Onsite
			TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 127.4	Goal year's ratio 59.2	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (f)
c. Equipment/technology modification (c)	h. Other - briefly explain here (g)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. TN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Reduced inventories of certain materials accomplished through implementation of more efficient inventory control methods. Waste generation also dependent on facility decommissioning activities.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).					Status Further Reporting Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management,
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organizational full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. WASTE OILS AND WASTE OILS CONTAMINATED WITH PCBS AND/OR SOLV		Waste Stream number 42	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1944-	Date no longer generated. (MM/DD/YY)	Frequency of generation (C) Continuous Accidental/ One time Various	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). AFB	EPA waste codes. (Primary first; six maximum.) DOMX, FOMX, UOMX	SIC code for generating process. 2819.	
5. Physical form Liq-Watr (2)	% Solid 5.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 8.000
	If used for fuel, chlorine content (PPM) 0.0		BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 42,217.0 43,000	Annual average (kg) 335,238.0 393,013	Maximum amount stored on-site (kg) 40,000.0 43,000	Maximum days stored 90
7. DOT shipping name WASTE HAZARDOUS SUBSTANCE, N.O.S.	DOT hazard class O R M - E	DOT ID code 12	9189
8. Describe generation process. WASTE GENERATED FROM VARIOUS DEGREASING, CLEANING, AND PAINTING OPERATIONS. THIS IS A MIXED WASTE.			

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
OH	Flash point	Reactive code	% volume(), % weight(), PPM() (V)
	200 F		
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.	HALOGENATED/NONHALOGENATED SOLVENTS	1	50
b.	WATER	1	50
c.	OIL	1	100
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	507,986	577	1,379

Total Handled OFFsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
a		b 65,771	501

Amount Handled ONsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
c 441,413	707	d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
60.5	42.2	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (f)
c. Equipment/technology modification (c)	h. Other - briefly explain here (g)
d. Substituting raw materials (dX)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA (es))	g. High costs of haz. waste mgt. g(No NA (es))
b. Technical feasibility b(No NA (es))	h. Accidental generation h(No NA (es))
c. Economic practicality c(No NA (es))	i. Other - describe here i(No NA (es))
d. Measurement/accounting methods d(No NA (es))	
e. TN hazardous waste regulations e(No NA (es))	
f. Implementation experience f(No NA (es))	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Transformer oil is being reused or transferred to other facilities. Less toxic oils being substituted where feasible. Used materials being used in place of new products.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).					
Status					Further Reporting
					Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. PAINT WASTE		Waste Stream number 44			
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1944-	Date no longer generated. (MM/DD/YY)	Frequency of generation (V) Continuous Accidental/ Various One time			
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). ABG	EPA waste codes. (Primary first; six maximum.) D001.D0MX.F0MX	SIC code for generating process. 2819.			
5. Physical form Liq-Othr (J)	% Solid 30.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 12.00	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 5,452.0 1,500		Annual average (kg) 2,726.0 7,051		Maximum amount stored on-site; (kg) 5,452.0 1,500	Maximum days stored 90
7. DOT shipping name WASTE FLAMMABLE LIQUID, NOS		DOT hazard class Flam. liquid		DOT ID code 07	1993
8. Describe generation process. WASTE GENERATED FROM THE PAINT SHOPS AT THE PLANT FACILITY. THIS IS A MIXED WASTE.					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point 100C	Reactive code	% volume(), % weight(), PPM() (V)
Major and hazardous constituents. Give range of values at right.		Lower value	Upper value
a.	PAINT	40	60
b.	WATER	10	20
c.	SLUDGE	20	40
d.	ARIUM	<100	300
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 1,449	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0
a: Total Handled OFFsite		b: Amount Handled ONsite	
TSDR handling/Waste management methods		TSDR handling/Waste management methods	
c: Amount Handled ONsite		d: Amount Handled ONsite	
TSDR handling/Waste management methods		TSDR handling/Waste management methods	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 1.7	Goal year's ratio 15.9	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (bX)	g. No effort (f)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (g)
d. Substituting raw materials (dX)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance.....a(No NA Yes)	g. High costs of haz. waste mgt....g(No NA Yes)
b. Technical feasibility.....b(No NA Yes)	h. Accidental generation.....h(No NA Yes)
c. Economic practicality.....c(No NA Yes)	i. Other - describe here:.....i(No NA Yes)
d. Measurement/accounting methods.....d(No NA Yes)	
e. TN hazardous waste regulations.....e(No NA Yes)	
f. Implementation experience.....f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Solvents separated from solids for reuse. Less toxic materials substituted where feasible.

16. Certification: I certify that the information given on this form 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? Yes No	Test results? Yes No	Reasonable? Yes No	Follow up Yes No	Initials
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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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. URANIUM HEXAFLUORIDE				Waste Stream number 47	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1944-		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous _____ Accidental/One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>C</u>		EPA waste codes. (Primary first; six maximum.) 0002,0003		SIC code for generating process. 2819.	
5. Physical form Gas (1)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 42.000	If used for fuel, chlorine content (PPM) 0.0 BTU per pound 0.0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 25.0			Annual average (kg) 0.0	Maximum amount stored on-site (kg) 25.0	Maximum days stored 90
7. DOT shipping name WASTE URANIUM HEXAFLUORIDE LOW SPECIFIC ACTI			DOT hazard class Corrosive	DOT ID code 02	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.					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (), % weight (), PPM () (V)		
pH 2.5	Flash point	Reactive code			
Major and hazardous constituents. Give range or values at right.			lower value	upper value	
a. URANIUM HEXAFLUORIDE			100V	100V	
b.					
c.					
d.					
e.					
10. If this waste is recovered, reclaimed, recycled or reused, describe how.					

Date: 02/94

1. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)	
1993	0	0	0	
a	Total Handled Offsite	TSDR handling/Waste management methods	b Amount Handled Onsite	TSDR handling/Waste management methods
c	Amount Handled Onsite	TSDR handling/Waste management methods	d Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

WASTE NOT GENERATED THIS YEAR AND WILL NOT BE GENERATED ON A REGULAR BASIS IN THE FUTURE.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. HALOGENATED GASES				Waste Stream number 49	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1944-		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). CE		EPA waste codes. (Primary first; six maximum.) D002.D003		SIC code for generating process. 2819,	
5. Physical form Gas (1)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 0.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 42.0		Annual average (kg) 42.0 0		Maximum amount stored on-site (kg) 42.0	Maximum days stored 90
7. DOT shipping name WASTE COMPRESSED GAS, NONFLAMMABLE, NOS			DOT hazard class Poison B	15	DOT ID code 1955
8. Describe generation process. WASTE GENERATED FROM LABORATORY AND RESEARCH FACILITIES. THIS IS A PURE WASTE.					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (), % weight (), PPM ()	
pH 2.5	Flash point	Reactive code	(W)
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a. CHLORINE TRIFLUORIDE		100	100
b. HYDROGEN FLUORIDE		75	100
c. CHLORINE		75	100
d. FLUORINE		75	100
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 0	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0	
a	Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c	Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training c: technical assistance (a)	g. High costs of haz. waste mgt (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

WASTE NOT GENERATED THIS YEAR AND LIKELY WILL NOT BE GENERATED IN THE FUTURE

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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); Corrective Action (C); Waste water Rx (W).	Status	Further Reporting
		Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. K-1232 SPENT CARBON FILTER AGENT				Waste Stream number 52	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1985-		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous _____ Accidental/One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g)-f		EPA waste codes. (Primary first; six maximum.) F001, F002, F003		SIC code for generating process. 2819.	
5. Physical form Sld:Othr (9)	% Solid 100.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 5.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all Monthly maximum (kg) 156.0		rates in kilograms. Annual average (kg) 156.0		Maximum amount stored on-site (kg) 156.0	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE SOLID, NOS			DOT hazard class O R M - E	12	DOT ID code 9189
8. Describe generation process. WASTE GENERATED FROM CARBON COLUMN CHANGEDOUT. THIS IS A MIXED WASTE.					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM() (W)	
pH	Flash point	Reactive code	
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a.	CARBON	80	95
b.	VARIOUS HALOGENATED SOLVENTS	5	20
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)	
1993	0	0	0	
a	Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c	Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (fX)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here: (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

WASTE NOT GENERATED THIS YEAR AND LIKELY WILL NOT BE GENERATED IN THE FUTURE.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).									Status Further Reporting Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct. Certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. HAZARDOUS WASTE LIQUID				Waste Stream number 60	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time	
1985					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>FB</u>				EPA waste codes. (Primary first; six maximum.) <u>DOMX, FOMX, UOMX</u>	
				SIC code for generating process. <u>2819,</u>	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM) BTU per pound	
<u>Liq-Othr (3)</u>	<u>.0</u>	<u>.0</u>	<u>7.000</u>	<u>0.0</u>	<u>0.0</u>
6. Generation rates. Supply all rates in kilograms.			Maximum amount stored on-site		Maximum days stored
Monthly maximum (kg)			Annual average (kg)		(kg)
<u>21,872.0 30,165</u>			<u>262,463.0 201,995</u>		<u>21,872.0 30,165</u>
					<u>90</u>
7. DOT shipping name			DOT hazard class		DOT ID code
<u>HAZARDOUS WASTE, LIQUIDS.</u>			<u>ORM - E</u>		<u>12 9189</u>
8. Describe generation process. <u>LIQUID HAZARDOUS WASTE GENERATED DURING PLANT OPERATION.</u>					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume(), % weight(), PPM() (V)	
	<u>140</u>			
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a.	<u>METHYLENE CHLORIDE</u>		<u>10</u>	<u>80</u>
b.	<u>FREON</u>		<u>10</u>	<u>80</u>
c.	<u>ACETONE</u>		<u>0</u>	<u>5</u>
d.	<u>METHYL ETHYL KETONE</u>		<u>0</u>	<u>5</u>
e.				
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 30,165	Amount on-site in temporary storage on the first day of year (kg) 13,297	Amount on-site in temporary storage on the last day of year (kg) 111
a. Total Handled Offsite		TSDR handling/Waste management methods	b. Amount Handled Onsite 6,988
			TSDR handling/Waste management methods Sol
c. Amount Handled Onsite 36,363		TSDR handling/Waste management methods H06	d. Amount Handled Onsite
			TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 35.9	Goal year's ratio 52.7	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance.....a(No NA <u>Yes</u>)	g. High costs of haz. waste mgt....g(No <u>NA</u> Yes)
b. Technical feasibility.....b(No <u>NA</u> Yes)	h. Accidental generation.....h(No <u>NA</u> Yes)
c. Economic practicality.....c(No <u>NA</u> Yes)	i. Other - describe here:.....i(<u>No</u> NA Yes)
d. Measurement/accounting methods.....d(No <u>NA</u> Yes)	
e. TN hazardous waste regulations.....e(No NA <u>Yes</u>)	
f. Implementation experience.....f(No <u>NA</u> Yes)	

FACILITY DECOMMISSIONING

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

*Facility decommissioning activities generate hazardous waste.
Numerous cleanup operations contribute to generation of this waste.*

16. Certification: I certify that the information given on this form 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? Yes No	Test results? Yes No	Reasonable? Yes No	Follow up Yes No	Initials
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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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. CENTRIFUGE EPOXIES/RESINS		Waste Stream number 62			
3. Give the years that this waste has been generated, e.g. 1975, 1982- 1970-1987-1991		Date no longer generated. (MM/DD/YY)	Frequency of generation (V) Continuous Accidental/ Various One time		
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). A		EPA waste codes. (Primary first; six maximum.) 0001	SIC code for generating process. 2819,		
5. Physical form Liq-Othr (3)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 110.0		Annual average (kg) 110.0 37	Maximum amount stored on-site (kg) 110.0	Maximum days stored 90	
7. DOT shipping name WASTE FLAMMABLE LIQUIDS NOS		DOT hazard class Flam. liquid	DOT ID code 07	1993	
8. Describe generation process. CENTRIFUGE RESINS GENERATED DURING FACILITY CLEAN OUT					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH	Flash point 140	Reactive code	
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a.	EPOXY	0	55
b.	TALC	0	25.6
c.	ISOPROPYL ALCOHOL	0	1.3
d.	XYLENE	0	3.5
e.	METHYL ISOBUTYL KETONE	0	5.6
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

1. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)	
1993				
a	Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c	Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0.0	12.3	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generated from facility cleanup operations. No
waste generated this year. Will not be generated on a
regular basis.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. K-1232/CNF CENTRIFUGED SLUDGE				Waste Stream number 64	
3. Give the years that this waste has been generated, e.g. 1975, 1982- 1985-		Date no longer generated. (MM/DD/YY)		Frequency of generation (C) Continuous _____ Accidental/ One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g) - F		EPA waste codes. (Primary first; six maximum.) DOMX, FOMX, UOMX		SIC code for generating process. 2819,	
5. Physical form Sldg-Watr (5)	% Solid 70.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 10.000	If used for fuel, chlorine content (PPM) 0.0 BTU per pound 0.0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 2,363.0 10,000			Annual average (kg) 106,178.0 109,964		Maximum amount stored on-site (kg) 2,363.0 30,000
7. DOT shipping name HAZARDOUS WASTE SOLIDS, NOS			DOT hazard class ORM - E		DOT ID code 12 9189
8. Describe generation process. CENTRIFUGE CAKE GENERATED FROM TREATMENT OF ELECTROPLATING WASTE AND CNF WASTE WATER. THIS IS A MIXED WASTE.					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM() (V)	
pH	Flash point	Reactive code	
Major and hazardous constituents. Give range of values at right.		Lower value	Upper value
a.	LIME	50	90
b.	WATER	5	45
c.	VARIOUS HALOGENATED SOLVENTS	1	5
d.	EP TOXIC/OTHERWISE TOXIC SUBSTANCES		TRACE
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 116,716	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0
a. Total Handled Offsite		TSDR handling/Waste management methods	
b. Amount Handled Onsite 116,716		TSDR handling/Waste management methods SOL	
c. Amount Handled Onsite		TSDR handling/Waste management methods	
d. Amount Handled Onsite		TSDR handling/Waste management methods	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 29.0	Goal year's ratio 20.7	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (cX)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a) No NA (Yes)	g. High costs of haz. waste mgt. (g) No NA (Yes)
b. Technical feasibility (b) No NA (Yes)	h. Accidental generation (h) No NA (Yes)
c. Economic practicality (c) No NA (Yes)	i. Other - describe here: (i) No NA (Yes)
d. Measurement/accounting methods (d) No NA (Yes)	
e. TN hazardous waste regulations (e) No NA (Yes)	
f. Implementation experience (f) No NA (Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

To reduce waste waters and consequent sludge generation, the south coal yard was closed to eliminate metals and excess storm water runoff. The Storm plant roof and trench drains were rerouted to the storm drain. The lime treatment process is being evaluated for replacement.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report Tennessee Department of Environment and Conservation, Division of Solid Waste Management. Fifth Floor, J & C Tower, 401 Church Street, Nashville, TN 37243-1535 Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. LABORATORY ACIDS (BMP)			
3. Give the years that this waste has been generated, e.g. 1975, 1982-1986- Date no longer generated.		Frequency of generation Continuous Accidental/ Various (c)	
4. Circle all appropriate hazard criteria below. EPA waste codes. (Primary first; SIC code for generating Reactive (e), other toxic (f), TCLP (g) - 866 Ignitable (a), EP toxic (b), Corrosive (c), six maximum.) DOT hazard class 0 R M - E DOT ID code 9189			
5. Physical form % Solid % Water Vol. to wt. conversion (pounds/gallon) chlorine content (PPM) BTU per pound if used for fuel.		6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) Annual average (kg) Maximum amount stored on-site Maximum days stored	
7. DOT shipping name HAZARDOUS WASTE LIQUID, NOS		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.	

9. Chemical Characteristics.		Flash point		Reactive code		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (), % weight (), PPM (), (P)	
Major and hazardous constituents. Give range of values at right.		Lower value		Upper value		Various acids	
a.		99		99.9			
b.	CADMIUM	< 1		16			
c.	CHROMIUM	< 5		790			
d.	LEAD	< 5		13			
e.	MERCURY	< 2		20			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.							

Date: 02/94

1. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	19,609	3,270	2,273

Total Handled OFFsite	TSDR handling/Waste management methods	Amount Handled ONSite	TSDR handling/Waste management methods
a		20,606	501

Amount Handled ONSite	TSDR handling/Waste management methods	Amount Handled ONSite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
23.3	43.7	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (rX)
b. In process recycling (b)	g. No effort (f)
c. Equipment/technology modification (cX)	h. Other - briefly explain here (g)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. TN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Sample sizes in the groundwater program were reduced. Use of in-situ sampling equipment for environmental samples is being evaluated. Unnecessary samples are being eliminated. Surplus chemical being reassigned where feasible rather than disposed.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status	Further Reporting
		Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. LABORATORY BASES (BMP)				Waste Stream number 71	
3. Give the years that this waste has been generated, e.g. 1975, 1982- 1986-		Date no longer generated. (MM/DD/YY)		Frequency of generation (C) Continuous _____ Accidental/ One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). C		EPA waste codes. (Primary first; six maximum.) 0002, D0MX		SIC code for generating process. 2819,	
5. Physical form Liq-Watr (2)	% Solid 5.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 9.000	If used for fuel, chlorine content (PPM) BTU per pound 0.0 0.0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 3,702.0 2,100 Annual average (kg) 5,351.0 4,231			Maximum amount stored on-site (kg) 3,702.0 2,100		Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE LIQUID, NOS			DOT hazard class 0 R M - E		DOT ID code 12 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.					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH	Flash point	Reactive code		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a.	VARIOUS BASES		98	99.0
b.	CADMIUM		<1	1.7
c.	CHROMIUM		<5	32
d.	CYANIDE		<5	120
e.	LEAD		<5	5.7

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 2,094	Amount on-site in temporary storage on the first day of year (kg) 471	Amount on-site in temporary storage on the last day of year (kg) 409
a. Total Handled Offsite		TSDR handling/Waste management methods	b. Amount Handled Onsite 2,156
			TSDR handling/Waste management methods Sol
c. Amount Handled Onsite		TSDR handling/Waste management methods	d. Amount Handled Onsite
			TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 24.9	Goal year's ratio 77.1	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product . . . (a)	f. Reduction research/planning (rX)
b. In process recycling (b)	g. No effort (f)
c. Equipment/technology modification . . (cX)	h. Other - briefly explain here. (g)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance.....a(No NA Yes)	g. High costs of haz. waste mgt....g(No NA Yes)
b. Technical feasibility.....b(No NA Yes)	h. Accidental generation.....h(No NA Yes)
c. Economic practicality.....c(No NA Yes)	i. Other - describe here:.....i(No NA Yes)
d. Measurement/accounting methods.....d(No NA Yes)	
e. TN hazardous waste regulations.....e(No NA Yes)	
f. Implementation experience.....f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Sample sizes being reduced where feasible. In-situ analytical equipment being evaluated for use in field operations. Surplus chemicals are being reassigned where feasible rather than disposed.

16. Certification: I certify that the information given on this form 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? Yes No	Test results? Yes No	Reasonable? Yes No	Follow up Yes No	Initials
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); Corrective Action (C); Waste water Rx (W).					Status Further Reporting Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. LABORATORY ORGANICS (BMP)				Waste Stream number 72	
3. Give the years that this waste has been generated, e.g. 1975, 1982- 1986-		Date no longer generated. (MM/DD/YY)		Frequency of generation (C) Continuous ☐ Accidental/ One time ☐ Various ☐	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). ABF		EPA waste codes. (Primary first; six maximum.) DOMX, FOMX, UOMX		SIC code for generating process. 2819.	
5. Physical form Liq-Othr (3)	% Solid 5.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 2,000.0 1,000		Annual average (kg) 10,737.0 10,098		Maximum amount stored on-site (kg) 2,000.0 3,000	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE LIQUID, NOS			DOT hazard class ORM - E	DOT ID code 12	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.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH	Flash point	Reactive code	(X) (F)
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.	VARIOUS ORGANICS	98	99.9
b.	CADMIUM	1	1.7
c.	CHROMIUM	15	3.7
d.	MERCURY	.2	.446
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 8,565	Amount on-site in temporary storage on the first day of year (kg) 783	Amount on-site in temporary storage on the last day of year (kg) 1,411	
a. Total Handled OFFsite		TSDR handling/Waste management methods	b. Amount Handled ONsite 7,937	TSDR handling/Waste management methods Sol
c. Amount Handled ONsite		TSDR handling/Waste management methods	d. Amount Handled ONsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 10.2	Goal year's ratio 13.7	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (cX)	h. Other - briefly explain here (g)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA <u>Yes</u>)	g. High costs of haz. waste mgt g(No NA <u>Yes</u>)
b. Technical feasibility b(No NA <u>Yes</u>)	h. Accidental generation h(No <u>NA</u> Yes)
c. Economic practicality c(No NA <u>Yes</u>)	i. Other - describe here: i(No <u>NA</u> Yes)
d. Measurement/accounting methods d(No <u>NA</u> Yes)	
e. TN hazardous waste regulations e(No NA <u>Yes</u>)	
f. Implementation experience f(No NA <u>Yes</u>)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Surplus chemicals are being reassigned where feasible rather than disposed. Disposable bailers were substituted for a bailer that required decontamination after each use.

16. Certification: I certify that the information given on this form 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? Yes No	Test results? Yes No	Reasonable? Yes No	Follow up Yes No	Initials
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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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY X-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. LABORATORY SLUDGES (BMP)		Waste Stream number 73	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1986-	Date no longer generated. (MM/DD/YY)	Frequency of generation (C) Continuous _____ Accidental/ One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>8</u>	EPA waste codes. (Primary first; six maximum.) <u>DOMX, FOMX, UOMX</u>	SIC code for generating process. <u>2819.</u>	
5. Physical form <u>Sldg-Watr (5)</u>	% Solid <u>90.0</u>	% Water <u>.0</u>	Vol. to wt. conversion (pounds/gallon) <u>12.000</u>
If used for fuel, chlorine content (PPM) <u>0.0</u>		BTU per pound <u>0.0</u>	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) <u>571.0 500</u>	Annual average (kg) <u>1,734.0 2,302</u>	Maximum amount stored on-site (kg) <u>571.0 1500</u>	Maximum days stored <u>90</u>
7. DOT shipping name <u>HAZARDOUS WASTE SOLID. NOS</u>	DOT hazard class <u>0 R M - E</u>	DOT ID code <u>12</u>	<u>9189</u>
8. Describe generation process. <u>SOLID WASTE FROM LABORATORY ANALYSIS</u>			

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
DM	Flash point	Reactive code	% volume(), % weight(), PPM()
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a.	LEAD	0	500
b.	MERCURY	0	50
c.			
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 3,493	Amount on-site in temporary storage on the first day of year (kg) 223	Amount on-site in temporary storage on the last day of year (kg) 215
a. Total Handled <u>Offsite</u>		TSDR handling/Waste management methods	b. Amount Handled <u>Onsite</u> 3,501
c. Amount Handled <u>Onsite</u>		TSDR handling/Waste management methods	d. Amount Handled <u>Onsite</u> 501

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 415.8	Goal year's ratio 64.8	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA <u>Yes</u>)	g. High costs of haz. waste mgt g(No NA <u>Yes</u>)
b. Technical feasibility b(No NA <u>Yes</u>)	h. Accidental generation h(No NA <u>Yes</u>)
c. Economic practicality c(No NA <u>Yes</u>)	i. Other - describe here i(No NA <u>Yes</u>)
d. Measurement/accounting methods d(No NA <u>Yes</u>)	
e. TN hazardous waste regulations e(No NA <u>Yes</u>)	
f. Implementation experience f(No NA <u>Yes</u>)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generation is dependent on samples processed. With increasing environmental restoration activities increased waste generation seen.

16. Certification: I certify that the information given on this form 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? Yes No	Test results? Yes No	Reasonable? Yes No	Follow up Yes No	Initials
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); Corrective Action (C); Waste water Rx (W).					Status Further Reporting Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management, Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
 - Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TN0 89-009-0004
2. Waste name. Use standard name from regulations whenever possible. SILVER RECOVERY		
3. Give the years that this waste has been generated, e.g. 1975, 1982-1983- Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time

4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g) - 8C EPA waste codes. (Primary first; six maximum.) DOT hazard class DOT ID code		5. Physical form % Solid % Water Vol. to wt. conversion (pounds/gallon) chlorine content (PPM) BTU per pound if used for fuel		6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) Annual average (kg) Maximum amount stored on-site (kg) Maximum days stored		7. DOT shipping name HAZARDOUS WASTE LIQUID, NOS DOT hazard class DOT ID code		8. Describe generation process. PHOTOGRAPHIC / X-RAY DEVELOPMENT	
1983- 0011, 0002 2819,		1.0 8.4 7.500 0.0 0.0		6,080.0 1,000 6,080.0 6,222 6,080.0 3,000 90		0 R M - E 12 9189			

9. Chemical Characteristics. pH Flash point Reactive code Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (V), PPM (X)		Major and hazardous constituents. Give range of values at right. Lower value Upper value	
SILVER		5.0 100	

a.	b.	c.	d.	e.

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	4,957	0	0

a	Total Handled Offsite	TSDR handling/Waste management methods	b	Amount Handled Onsite	TSDR handling/Waste management methods
				4,957	501
c	Amount Handled Onsite	TSDR handling/Waste management methods	d	Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
59.0	85.2	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (fX)
b. In process recycling (bX)	g. No effort (f)
c. Equipment/technology modification (cX)	h. Other - briefly explain here (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA <u>Yes</u>)	g. High costs of haz. waste mgt. g(No NA <u>Yes</u>)
b. Technical feasibility b(No NA <u>Yes</u>)	h. Accidental generation h(No NA <u>Yes</u>)
c. Economic practicality c(No NA <u>Yes</u>)	i. Other - describe here: i(No NA <u>Yes</u>)
d. Measurement/accounting methods d(No NA <u>Yes</u>)	
e. TN hazardous waste regulations e(No NA <u>Yes</u>)	
f. Implementation experience f(No NA <u>Yes</u>)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Silver recovery systems utilized on various photo processes. A chemical evaporator used to reduce volume of waste from one operation. Purchase of new equipment being evaluated. This equipment would reduce waste generation. Digital photo equipment being utilized.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. BENZOYL PEROXIDE AND ORGANIC PEROXIDES		Waste Stream number 75			
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1987-	Date no longer generated. (MM/DD/YY)	Frequency of generation (V) Continuous _____ Accidental/One time _____ Various _____			
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). AE	EPA waste codes. (Primary first; six maximum.) 0003,0001	SIC code for generating process. 2819,			
5. Physical form Liq-Othr (3)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 10.800	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 2.0	Annual average (kg) 2.0	Maximum amount stored on-site (kg) 2.0	Maximum days stored 90		
7. DOT shipping name WASTE ORGANIC PEROXIDE, LIQUID NOS	DOT hazard class Org peroxide	11	DOT ID code 9183		
8. Describe generation process. MATERIAL DISCOVERED DURING CLEAN UP OF LABORATORY AREAS. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM() (V)	
pH	Flash point	Reactive code	
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a.	BENZOYL PEROXIDE	100	100
b.			
c.			
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)	
1993				
a	Total Handled Offsite	TSDR handling/Waste management methods	b Amount Handled Onsite	TSDR handling/Waste management methods
c	Amount Handled Onsite	TSDR handling/Waste management methods	d Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	93.9	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (fX)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here: (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

WASTE NOT GENERATED THIS YEAR AND LIKELY WILL NOT BE GENERATED IN THE FUTURE.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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); Corrective Action (C); Waste water Rx (W).					Status: Further Reporting Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. HYDROGEN PEROXIDE				Waste Stream number 77	
3. Give the years that this waste has been generated, e.g. 1975, 1982- 1987-		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous _____ Accidental/ One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). EA		EPA waste codes. (Primary first; six maximum.) D003, D001		SIC code for generating process. 2819.	
5. Physical form Liq-0thr (3)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 8.200	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 25.0 56			Annual average (kg) 25.0 56	Maximum amount stored on-site (kg) 25.0 56	Maximum days stored 90
7. DOT shipping name WASTE HYDROGEN PEROXIDE SOLUTION			DOT hazard class Oxidizer	DOT ID code 13	2014

8. Describe generation process.

MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume(), % weight(), PPM() (V)
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a. HYDROGEN PEROXIDE		8	20
b.			
c.			
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "TM", "SM", or "DM" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	0	0	0

Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
a		b	

Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	18.9	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (fX)
c. Equipment/technology modification (c)	h. Other - briefly explain here (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a) (No <u>NA</u> Yes)	g. High costs of haz. waste mgt. (g) (No <u>NA</u> Yes)
b. Technical feasibility (b) (No <u>NA</u> Yes)	h. Accidental generation (h) (No <u>NA</u> Yes)
c. Economic practicality (c) (No <u>NA</u> Yes)	i. Other - describe here: (i) (No <u>NA</u> Yes)
d. Measurement/accounting methods (d) (No <u>NA</u> Yes)	
e. TN hazardous waste regulations (e) (No <u>NA</u> Yes)	
f. Implementation experience (f) (No <u>NA</u> Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

WASTE NOT GENERATED THIS YEAR AND LIKELY WILL NOT BE GENERATED ON A REGULAR BASIS IN THE FUTURE.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. METALLIC MERCURY/MERCURY PRODUCTS		Waste Stream number 82			
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1987-		Date no longer generated. (MM/DD/YY)			
		Frequency of generation (V) Continuous _____ Accidental/ One time _____ Various _____			
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). 86		EPA waste codes. (Primary first; six maximum.) D009, U151, D008			
		SIC code for generating process. 2819,			
5. Physical form Sld:Othr (9)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 113.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 308.0 100		Annual average (kg) 1,550.0 1,088		Maximum amount stored on-site (kg) 308.0 300	Maximum days stored 90
7. DOT shipping name WASTE MERCURY METALLIC		DOT hazard class 0 R M - E		DOT ID code 12 NA2809	
8. Describe generation process. MERCURY REMOVED FROM INSTRUMENTATION					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume(), % weight(XX), PPM() (W)
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a. METALLIC MERCURY		100	100
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	238	5	0

a	Total Handled OFFsite	TSDR handling/Waste management methods	b	Amount Handled ONSite	TSDR handling/Waste management methods
				243	501
c	Amount Handled ONSite	TSDR handling/Waste management methods	d	Amount Handled ONSite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
28.3	76.1	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance.....a(No NA <u>Yes</u>)	g. High costs of haz. waste mgt....g(No NA <u>Yes</u>)
b. Technical feasibility.....b(No <u>NA</u> Yes)	h. Accidental generation.....h(No <u>NA</u> Yes)
c. Economic practicality.....c(No <u>NA</u> Yes)	i. Other - describe here:.....i(No <u>NA</u> Yes)
d. Measurement/accounting methods.....d(No <u>NA</u> Yes)	
e. TN hazardous waste regulations.....e(No <u>NA</u> <u>Yes</u>)	
f. Implementation experience.....f(No <u>NA</u> Yes)	
- Facility decommissioning*

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Facility decommissioning activities generate waste mercury and mercury contaminated wastes. Various activities contribute to generation of this waste.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. RAGS CONTAMINATED WITH SOLVENTS		Waste Stream number 84			
3. Give the years that this waste has been generated, e.g. 1975, 1982- 1987-		Date no longer generated. (MM/DD/YY)			
		Frequency of generation (V) Continuous Accidental/ Various One time			
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). FC		EPA waste codes. (Primary first; six maximum.) DOMX, FOMX, U080			
		SIC code for generating process. 2819,			
5. Physical form Sld:Othr (9)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 661.0 200		Annual average (kg) 2,181.0 1,520		Maximum amount stored on-site (kg) 661.0 600	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE SOLID N O S		DOT hazard class O R M - E		12	DOT ID code HA9189
8. Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA AND PROCESS AREAS.					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH	Flash point	Reactive code	
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.	TRICHLOROETHANE	0	10%
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	159	0	0
a	Total Handled OFFsite	TSDR handling/Waste management methods	b Amount Handled ONsite 159 TSDR handling/Waste management methods So/
c	Amount Handled ONsite	TSDR handling/Waste management methods	d Amount Handled ONsite TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
1.9	41.8	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (dX)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance.....a(No NA <u>Yes</u>)	g. High costs of haz. waste mgt....g(No NA <u>Yes</u>)
b. Technical feasibility.....b(No NA <u>Yes</u>)	h. Accidental generation.....h(No NA <u>Yes</u>)
c. Economic practicality.....c(No NA <u>Yes</u>)	i. Other - describe here:.....i(No NA <u>Yes</u>)
d. Measurement/accounting methods.....d(No NA <u>Yes</u>)	
e. TN hazardous waste regulations.....e(No NA <u>Yes</u>)	
f. Implementation experience.....f(No NA <u>Yes</u>)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Laundrable rags being used in place of disposable rags where feasible. Solvent substitutions have also been implemented.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. TSCA INCINERATOR ASH		Waste Stream number 85			
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1987-		Date no longer generated. (MM/DD/YY)			
		Frequency of generation (Y) Continuous Accidental/ Various One time			
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>fg</u>		EPA waste codes. (Primary first; six maximum.) DOMX, FOMX, UOMX			
		SIC code for generating process. 2819,			
5. Physical form Slid:Othr (9)	% Solid 90.0	% Water 10.0	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 3,488.0 3,800		Annual average (kg) 6,744.0 3,751		Maximum amount stored on-site (kg) 10,000.0 11,400	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE SOLID, NOS		DOT hazard class O R M - E		12	DOT ID code 9189
8. Describe generation process. ASH IS GENERATED DURING OPERATION OF K-1435 TSCA/RCRA DUAL PURPOSE INCINERATOR					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(X), PPM()	
pH NA	Flash point NA	Reactive code NA		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a. ASH			100	100
b. TRACE METALS				
c.				
d.				
e.				
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	469	0	0

Total Handled OFFsite	TSDR handling/Waste management methods	Amount Handled ONSite	TSDR handling/Waste management methods
a		b 469	SOI

Amount Handled ONSite	TSDR handling/Waste management methods	Amount Handled ONSite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
10.3	111.4	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. TN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generation is dependent on incinerator operations and feed materials.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative) TITLE: DATE:

Below is for Department use only.

Date received (MM/DD/YY)	Complete?	Test results?	Reasonable?	Follow up	Initials
	Yes No	Yes No	Yes No	Yes No	

Status:	Further Reporting
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); Corrective Action (C); Waste water Rx (W).	Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. METAL SHAVINGS CONTAINING LEAD AND LEAD PRODUCTS				Waste Stream number 93	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time	
1987-					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).g				EPA waste codes. (Primary first; six maximum.) 0008	
				SIC code for generating process. 2819.	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM) BTU per pound	
Sld:0thr (9)	.0	.0	90.000	0.0 0.0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg)			Annual average (kg)		Maximum amount stored on-site (kg)
1,497.0 1,200			10,749.0 10,164		1,497.0 3,600
7. DOT shipping name HAZARDOUS WASTE SOLID, NOS			DOT hazard class 0 R M - E		DOT ID code 12 9189
8. Describe generation process. METAL SHAVINGS GENERATED DURING FABRICATION OF METAL PARTS.					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM() (W)	
pH	Flash point	Reactive code		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a.	LEAD		1%	5%
b.				
c.				
d.				
e.				
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 1,183	Amount on-site in temporary storage on the first day of year (kg) 21	Amount on-site in temporary storage on the last day of year (kg) 0
a. Total Handled Offsite		b. Amount Handled Onsite	
TSDR handling/Waste management methods		TSDR handling/Waste management methods	
1,204		501	
c. Amount Handled Onsite		d. Amount Handled Onsite	
TSDR handling/Waste management methods		TSDR handling/Waste management methods	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 1.4	Goal year's ratio 31.1	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (f)
c. Equipment/technology modification (cX)	h. Other - briefly explain here. (g)
d. Substituting raw materials (dX)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance.....a(No NA Yes)	g. High costs of haz. waste mgt....g(No NA Yes)
b. Technical feasibility.....b(No NA Yes)	h. Accidental generation.....h(No NA Yes)
c. Economic practicality.....c(No NA Yes)	i. Other - describe here:.....i(No NA Yes)
d. Measurement/accounting methods.....d(No NA Yes)	
e. TN hazardous waste regulations.....e(No NA Yes)	
f. Implementation experience.....f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Eliminated use of lead-packed films and returned to use of reusable plates for radiographic work. Recycling spent shell casings and lead sheets and pieces where feasible rather than disposing.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. WASTE CYCLOHEXANE		Waste Stream number 103			
3. Give the years that this waste has been generated, e.g. 1975-1982. 1987-1990		Date no longer generated. (MM/DD/YY) 12/31/90			
		Frequency of generation (V) Continuous Accidental/ Various One time			
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g): A		EPA waste codes. (Primary first; six maximum.) 0001			
		SIC code for generating process. 2819.			
5. Physical form Liq-Othr (3)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 6.500	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 0.0		Annual average (kg) 6.0		Maximum amount stored on-site (kg) 6.0	Maximum days stored 90
7. DOT shipping name WASTE CYCLOHEXANE		DOT hazard class Flam. liquid		DOT ID code 07	1145

8. Describe generation process.

MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT THE K-25 SITE.

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

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)	
1993	0	0	0	
a	Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c	Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste not generated this year and likely will not be generated in the future.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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); Corrective Action (C); Waste water Rx (W).	Status	Further Reporting
		Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management,
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY X-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. DIOCTYL PHTHALATE				Waste Stream number 107	
3. Give the years that this waste has been generated, e.g. 1975, 1982- 1987-		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>f</u>		EPA waste codes. (Primary first; six maximum.) U107		SIC code for generating process. 2819.	
5. Physical form Liq-Othr (3)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 8.090	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 144.0 123		Annual average (kg) 150.0 123		Maximum amount stored on-site (kg) 144.0 492	Maximum days stored 90
7. DOT shipping name WASTE DIOCTYL PHTHALATE			DOT hazard class Poison 8	15	DOT ID code UN2810
8. Describe generation process. MATERIAL IS GENERATED DURING OPERATION OF THE FILTER TEST FACILITY.					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume(), % weight(), PPM() (V)	
Major and hazardous constituents. Give range or values at right.			lower value	upper value
a. DIOCTYL PHTHALATE			100 %	
b.				
c.				
d.				
e.				

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	0	0	0

Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
a		b	

Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	41.1	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Improved operations resulted in no waste being generated this year.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. ASBESTOS COVERED LEAD PIPE		Waste Stream number 121			
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1973 —		Date no longer generated. (MM/DD/YY)	Frequency of generation (V) Continuous Accidental/One time Various		
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).g		EPA waste codes. (Primary first; six maximum.) 0008	SIC code for generating process. 2819.		
5. Physical form Slid:Othr (9)	% Solid 100.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 95.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 1,114.0		Annual average (kg) 1,114.0 0	Maximum amount stored on-site (kg) 1,114.0	Maximum days stored 90	
7. DOT shipping name WASTE ORM-E		DOT hazard class O R M - E		DOT ID code 12	
8. Describe generation process. LEAD PIPE COVERED WITH ASBESTOS					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use 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.	LEAD	70	100%
b.	ASBESTOS	0	30%
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	0	0	0

Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
a		b	
Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste not generated this year and likely will not be generated on a regular basis in the future.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)

TITLE:

DATE:

** Below is for Department use only.

Date received (MM/DD/YY)	Complete?	Test results?	Reasonable?	Follow up	Initials
	Yes No	Yes No	Yes No	Yes No	

Status:	Further Reporting
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); Corrective Action (C); Waste water Rx (W).	Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. HAZARDOUS WASTE SOLID (BULK)		Waste Stream number 122			
3. Give the years that this waste has been generated, e.g. 1975, 1982-.	Date no longer generated. (MM/DD/YY)	Frequency of generation (V) Continuous _____ Accidental/One time _____ Various _____			
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). ABF		EPA waste codes. (Primary first; six maximum.) F001, F002, F006, F003, 0001, 00MX, 00MX	SIC code for generating process. 2819.		
5. Physical form Sld:Othr (9)	% Solid 100.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 2,126.0 9,300		Annual average (kg) 17,630.0 14,693		Maximum amount stored on-site (kg) 2,126.0 9,300	Maximum days stored 960
7. DOT shipping name HAZARDOUS WASTE SOLID, NOS		DOT hazard class 0 R M - E		DOT ID code 12	9189

8. Describe generation process.

MISCELLANEOUS SOLIDS CONTAMINATED WITH HAZARDOUS MATERIALS

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

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	9,302	240	273

a	Total Handled OFFsite	TSDR handling/Waste management methods	b	Amount Handled ONsite	TSDR handling/Waste management methods
c	Amount Handled ONsite	TSDR handling/Waste management methods	d	Amount Handled ONsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
11.1	29.8	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Will Purchase new printer eliminating generation of RCRA waste.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. WATER REACTIVES (SOLIDS)				Waste Stream number 123	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1985-		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous _____ Accidental/One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). AE		EPA waste codes. (Primary first; six maximum.) D003, D001		SIC code for generating process. 2819,	
5. Physical form Sld:Othr (9)	% Solid 100.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 1.0		Annual average (kg) 1.0 0		Maximum amount stored on-site (kg) 1.0	Maximum days stored 90
7. DOT shipping name WASTE WATER REACTIVE SOLID, NOS			DOT hazard class Flam. solid	DOT ID code 08	2813
8. Describe generation process. MATERIALS DISCOVERED DURING LABORATORY CLEAN OUT					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM() (W)	
pH	Flash point	Reactive code		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a.	SODIUM		0	100
b.	POTASSIUM		0	100
c.				
d.				
e.				
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	0	3	0

Total Handled OFFsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
a		b 3	501

Amount Handled ONsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	11.2	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (fX)
c. Equipment/technology modification (c)	h. Other - briefly explain here (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a) No NA <u>Yes</u>	g. High costs of haz. waste mgt. (g) No NA <u>Yes</u>
b. Technical feasibility (b) No NA <u>Yes</u>	h. Accidental generation (h) No <u>NA</u> Yes
c. Economic practicality (c) No <u>NA</u> Yes	i. Other - describe here: (i) No <u>NA</u> Yes
d. Measurement/accounting methods (d) No <u>NA</u> Yes	
e. TN hazardous waste regulations (e) No <u>NA</u> Yes	
f. Implementation experience (f) No <u>NA</u> Yes	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste will be generated periodically from facility Cleanout operations.

16. Certification: I certify that the information given on this form 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

Initials

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); Corrective Action (C); Waste water Rx (W).

Status Further Reporting
Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct. Certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. WASTE OXIDIZER CORROSIVE LIQUID		Waste Stream number 124	
3. Give the years that this waste has been generated, e.g. 1975, 1982- 1985-		Date no longer generated. (MM/DD/YY)	
		Frequency of generation (V) Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). CBF		EPA waste codes. (Primary first; six maximum.) 0002,0003,0007,0001	
		SIC code for generating process. 2819,	
5. Physical form Liq-Othr (3)	% Solid 10.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 0.000
			If used for fuel, chlorine content (PPM) 0.0
			BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 1.0		Annual average (kg) 1.0	
		Maximum amount stored on-site (kg) 1.0	
		Maximum days stored 90	
7. DOT shipping name OXIDIZER CORROSIVE LIQUID NOS		DOT hazard class Oxidizer	
		DOT ID code 13 UN9193	
8. Describe generation process. WASTE MATERIALS FROM LABORATORY ANALYSIS OR CONCENTRATED CLEANING SOLUTIONS			

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume(), % weight(), PPM() (V)
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.	WASTE CLEANING SOLUTION (CHROMIC ACID)	0	100
b.	OXIDIZING ACIDS (PERCHLORIC ACID)	0	100
c.			
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)	
1993	0	0	0	
a	Total Handled OFFsite	TSDR handling/Waste management methods	b Amount Handled ONsite	TSDR handling/Waste management methods
c	Amount Handled ONsite	TSDR handling/Waste management methods	d Amount Handled ONsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt. g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here: i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. TN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste not generated this year and likely will not be generated on a regular basis in the future.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:

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); Corrective Action (C); Waste water Rx (W).

Status	Further Reporting
	Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. WASTE COMPRESSED GAS FLAMMABLE NOS				Waste Stream number 125	
3. Give the years that this waste has been generated, e.g. 1975, 1982- 1985-		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g) AF		EPA waste codes. (Primary first; six maximum.) 0001, UOMX		SIC code for generating process. 2819,	
5. Physical form Liq-Othr (3)	% Solid .0	% Water .0	Vol. to wt. conversion (pounds/gallon) 0.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 240 28			Annual average (kg) 260 28		Maximum amount stored on-site (kg) 240 28
Maximum days stored 90					
7. DOT shipping name COMPRESSED GAS, FLAMMABLE			DOT hazard class Flam. gas		DOT ID code 06 UN1954
8. Describe generation process. WASTE CYLINDERS OF GASES FROM PAINT SPRAY CANS OR LABORATORY CYLINDERS					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH	Flash point	Reactive code	(W)
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a. WASTE PAINT SPRAY CANS		0	100
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993		0	0

Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
a		b	501

Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
1.2	68.2	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here: (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Use of materials decreased.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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:	Further Reporting
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); Corrective Action (C); Waste water Rx (W).	Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct. Certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. FLAMMABLE CORROSIVE SOLIDS LAB PACK				Waste Stream number 127	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time	
1992- 1989-					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). AC				EPA waste codes. (Primary first; six maximum.) 0001, 0002	
				SIC code for generating process. 2819,	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM)	BTU per pound
Sld:Othr (9)	100.0	.0	8.000	0.0	0.0
6. Generation rates. Supply all rates in kilograms.			Maximum amount stored on-site		Maximum days stored
Monthly maximum (kg)			(kg)		
16.0			16.0		90
Annual average (kg)					
16.0 0					
7. DOT shipping name			DOT hazard class		DOT ID code
FLAMMABLE CORROSIVE SOLID, NOS			Flam. solid		08 2925
8. Describe generation process. WASTE LABORATORY CHEMICALS.					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume(), % weight(), PPM() (H)	
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a. VARIOUS LABORATORY CHEMICALS				
b.				
c.				
d.				
e.				
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)	
1993	0	0	0	
a	Total Handled OFFsite	TSDR handling/Waste management methods	b Amount Handled ONsite	TSDR handling/Waste management methods
c	Amount Handled ONsite	TSDR handling/Waste management methods	d Amount Handled ONsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	9.7	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

No waste generated this year.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative) TITLE: DATE:

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

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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. FLAMMABLE SOLIDS LAB PACK				Waste Stream number 128	
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 (V) Continuous _____ Accidental/ One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). AE		EPA waste codes. (Primary first; six maximum.) D001, D003, U0MX		SIC code for generating process. 2819,	
5. Physical form Sld:Othr (9)	% Solid 100.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 8.500	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 15.0 8		Annual average (kg) 15.0 8		Maximum amount stored on-site (kg) 15.0 24	Maximum days stored 90
7. DOT shipping name FLAMMABLE SOLIDS, NOS			DOT hazard class Flam. liquid	DOT ID code 07	1325
8. Describe generation process. WASTE LABORATORY CHEMICALS.					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM() (W)	
pH	Flash point	Reactive code		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a.	SULFUR		100 0	100
b.	VARIOUS PROCESS AND LABORATORY CHEMICALS		0	100
c.				
d.				
e.				
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site 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 handling, use "H" codes.

Report year 1993	Amount generated during year (kg) 5	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0
a. Total Handled Offsite		b. Amount Handled Onsite	
TSDR handling/Waste management methods		TSDR handling/Waste management methods	
c. Amount Handled Onsite		d. Amount Handled Onsite	
TSDR handling/Waste management methods		TSDR handling/Waste management methods	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 6.0	Goal year's ratio 22.3	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (dX)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a) No NA Yes	g. High costs of haz. waste mgt. (g) No NA Yes
b. Technical feasibility (b) No NA Yes	h. Accidental generation (h) No NA Yes
c. Economic practicality (c) No NA Yes	i. Other - describe here: (i) No NA Yes
d. Measurement/accounting methods (d) No NA Yes	
e. TM hazardous waste regulations (e) No NA Yes	
f. Implementation experience (f) No NA Yes	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Excessed materials reclassified rather than disposed where feasible.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).					Status Further Reporting Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report Tennessee Department of Environment and Conservation, Division of Solid Waste Management, Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535 Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004
2. Waste name. Use standard name from regulations whenever possible. FLAMMABLE SOLIDS		
3. Give the years that this waste has been generated, e.g. 1975, 1982-1989		Frequency of generation Continuous Accidental/ Various (V)
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g) - AF		EPA waste codes. (Primary first; six maximum.) 0001, UOMX, D003
5. Physical form % Solid 100.0 % Water 0 Vol. to wt. conversion (pounds/gallon) 9.000 chlorine content (PPM) 0.0 BTU per pound 0.0		6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 109.0 700 Annual average (kg) 250.0 387 Maximum amount stored on-site (kg) 109.0 2,100 Maximum days stored 90
7. DOT shipping name FLAMMABLE SOLID WASTE, NOS		DOT hazard class Flam. solid DOT ID code 1325
8. Describe generation process. WASTE RESINS FROM PLASTIC SHOP.		

9. Chemical characteristics.		pH		Flash point		Reactive code		Concentration units. For EP toxic and TCLP wastes, use PPM.	
Major and hazardous constituents. Give range of values at right.		Lower value		Upper value		a. RESINS (VARIOUS)		b. 0	
c. 100		d.		e.		10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 700	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0
a. Total Handled Offsite		TSDR handling/Waste management methods	b. Amount Handled Onsite 700
Amount Handled Onsite		TSDR handling/Waste management methods	d. Amount Handled Onsite 501

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 833.2	Goal year's ratio 59.2	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here: (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

Facility decommissioning

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generation dependent on facility decommissioning activities

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
~~Please~~ complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. FLAMMABLE CORROSIVE LIQUIDS (LAB PACK)				Waste Stream number 130	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous _____ Accidental/ One time _____ Various _____	
1989 —					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>ACB</u>				EPA waste codes. (Primary first; six maximum.) 0001, 0002, 00MX	
				SIC code for generating process. 2819.	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM)	BTU per pound
Liq-Othr (3)	10.0	.0	8.500	0.0	0.0
6. Generation rates. Supply all rates in kilograms.			Maximum amount stored on-site (kg)		Maximum days stored
Monthly maximum (kg) 24.0			Annual average (kg) 20 / 1		24.0
					90
7. DOT shipping name WASTE FLAMMABLE CORROSIVE LIQUID, NOS			DOT hazard class Flam. liquid		DOT ID code 07 2925
8. Describe generation process. WASTE LABORATORY CHEMICALS.					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume(), % weight(), PPM() (V)	
Major and hazardous constituents. Give range or values at right.			lower value	upper value
a.	ETHANOL		0	95
b.	POTASSIUM HYDROXIDE		0	5
c.				
d.				
e.				

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	0	0	0

Total Handled OFFsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
a		b	

Amount Handled ONsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	33.5	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.
a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.
a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste not generated this year and likely will not be generated on a regular basis in the future.

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

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

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); Corrective Action (C); Waste water Rx (W).					Status Further Reporting Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. OXIDIZING SOLIDS (SUBSTANCE MATERIAL)		Waste Stream number 131			
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 (V) Continuous Accidental/ Various One time		
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). AE		EPA waste codes. (Primary first; six maximum.) 0003, D001	SIC code for generating process. 2819.		
5. Physical form Sld:Othr (9)	% Solid 100.0	% Water .0	Vol. to wt. conversion (pounds/gallon) 9.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 37.0 24		Annual average (kg) 37.0 24	Maximum amount stored on-site (kg) 37.0 72	Maximum days stored 90	
7. DOT shipping name WASTE OXIDIZING MATERIAL		DOT hazard class Oxidizer	13	DOT ID code 1479	
8. Describe generation process. MATERIAL WAS DISCOVERED DURING LABORATORY CLEAN UP.					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH	Flash point	Reactive code	
Major and hazardous constituents. Give range or values at right.		Lower value	Upper value
a.	SODIUM DIOXIDE	100	100
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	5	12	0

Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
a		17	501

Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
6.0	12.3	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	
- Facility decommissioning

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generated from facility decommissioning activities.

16. Certification: I certify that the information given on this form 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:	Further Reporting
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); Corrective Action (C); Waste water Rx (W).	Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct. Certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. WASTE COMPRESSED GAS NONFLAMMABLE NOS				Waste Stream number 132	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/One time Various	
1989 —					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). CE				EPA waste codes. (Primary first; six maximum.) 0002, 0003	
				SIC code for generating process. 2819.	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM) BTU per pound	
Gas (1)	.0	.0	0.000	0.0 0.0	
6. Generation rates. Supply all rates in kilograms.			Maximum amount stored on-site		Maximum days stored
Monthly maximum (kg)			Annual average (kg)		(kg)
4.0			4.0		90
7. DOT shipping name COMPRESSED GAS, NONFLAMMABLE, NOS			DOT hazard class		DOT ID code 1956
8. Describe generation process. MATERIAL WAS DISCOVERED DURING CLEAN UP OF LABORATORY AND PROCESS AREAS.					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume(), % weight(), PPM() (V)	
Major and hazardous constituents. Give range or values at right.			lower value	upper value
a. HYDROGENATED GAS PRODUCTS			0	100
b.				
c.				
d.				
e.				
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 12/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	0	0	0

a	Total Handled OFFsite	TSDR handling/Waste management methods	b	Amount Handled ONSite	TSDR handling/Waste management methods

c	Amount Handled ONSite	TSDR handling/Waste management methods	d	Amount Handled ONSite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance.....a(No ☒ NA Yes)	g. High costs of haz. waste mgt....g(No ☒ NA Yes)
b. Technical feasibility.....b(No ☒ NA Yes)	h. Accidental generation.....h(No ☒ NA Yes)
c. Economic practicality.....c(No ☒ NA Yes)	i. Other - describe here:.....i(No ☒ NA Yes)
d. Measurement/accounting methods.....d(No ☒ NA Yes)	
e. IN hazardous waste regulations.....e(No ☒ NA Yes)	
f. Implementation experience.....f(No ☒ NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste not generated this year and likely will not be generated in the future.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. TSCA AND INS SLUDGE				Waste Stream number 133	
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 (V) Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>FB</u>		EPA waste codes. (Primary first; six maximum.) <u>DOMX, FOMX, UOMX</u>		SIC code for generating process. <u>2819</u>	
5. Physical form <u>Sld:Othr (9)</u>	% Solid <u>90.0</u>	% Water <u>10.0</u>	Vol. to wt. conversion (pounds/gallon) <u>8.000</u>	If used for fuel, chlorine content (PPM) <u>0.0</u> BTU per pound <u>0.0</u>	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) <u>7,270.0 4,000</u> Annual average (kg) <u>87,237.0 70,548</u>			Maximum amount stored on-site (kg) <u>7,270.0 18,000</u>		Maximum days stored <u>90</u>
7. DOT shipping name <u>HAZARDOUS WASTE SOLID, NOS</u>			DOT hazard class <u>0 R M - E</u>		DOT ID code <u>12 9189</u>
8. Describe generation process. <u>TREATMENT OF WASTE WATERS FROM OPERATING THE TSCA INCINERATOR. THIS IS A MIXED WASTE.</u>					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume(), % weight(), PPM() (V)
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.	<u>SPENT SOLVENTS (VARIOUS)</u>	<u>0</u>	<u>100</u>
b.	<u>WASTE WATERS FROM TSCA INCINERATOR AFTER TREATMENT AT CNF</u>	<u>95</u>	<u>100</u>
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	38,137	0	0

Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
a		b 38,137	501

Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
84.0	301.6	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generation dependent on quantity and type of waste treated.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct. Certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. LAUNDRY SLUDGE				Waste Stream number 134	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time	
1989					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).				EPA waste codes. (Primary first; six maximum.) DOMX	
				SIC code for generating process. 2819,	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM) BTU per pound	
Sld:Othr (9)	75.0	25.0	8.500	0.0 0.0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg)			Annual average (kg)	Maximum amount stored on-site (kg)	Maximum days stored
1,364.0			2,046.0	2,500.0	90
7. DOT shipping name HAZARDOUS WASTE SOLID, NOS				DOT hazard class ORM - E	DOT ID code 12 9189
8. Describe generation process. SLUDGE GENERATED FROM TREATMENT OF LAUNDRY FACILITY WASTE WATERS.					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume(), % weight(), PPM() XX (P)	
Major and hazardous constituents. Give range or values at right.			lower value	upper value
a.	LEAD		0	5
b.				
c.				
d.				
e.				
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	0	0	0

Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
a		b	

Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste not generated this year and likely will not be generated in the future.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative) TITLE: DATE:

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

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);		
	Variance granted (9);	Conditionally exempt (A);	Mixed radiological wastes (R);		
	Corrective Action (C);	Waste water Rx (W).			Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct. Certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. CADMIUM COATED CYLINDERS				Waste Stream number 135	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time	
1989 —					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).				EPA waste codes. (Primary first; six maximum.) 0006	
				SIC code for generating process. 2819,	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM)	BTU per pound
Sld:Othr (9)	100.0	.0	0.000	0.0	0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg)			Annual average (kg)	Maximum amount stored on-site (kg)	Maximum days stored
70.0			20.0 0	70.0	90
7. DOT shipping name HAZARDOUS WASTE SOLID, NOS				DOT hazard class O R M - E	DOT ID code 12 9189
8. Describe generation process. DISCARDED, EMPTY, COMPRESSED UF6 CYLINDERS (MIXED WASTE).					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH	Flash point	Reactive code		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a.	CADMIUM		0	100
b.				
c.				
d.				
e.				
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	0	0	0

Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
a		b	

Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste not generated this year and will not be generated on a regular basis in the future.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative) TITLE: DATE:

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

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);		
	Variance granted (9);	Conditionally exempt (A);	Mixed radiological wastes (R);		
	Corrective Action (C);	Waste water Rx (W).			Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY X-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. WASTE ORM-A (LAB PACKS)				Waste Stream number 137	
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 (V) Continuous _____ Accidental/ One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). 8F		EPA waste codes. (Primary first; six maximum.) U0MX, D0MX, F0MX		SIC code for generating process. 2819,	
5. Physical form Liq-Othr (3)	% Solid	% Water	Vol. to wt. conversion (pounds/gallon) 0.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 39.0 14		Annual average (kg) 39.0 14		Maximum amount stored on-site (kg) 350.0 42	Maximum days stored 90
7. DOT shipping name WASTE ORM-A NOS		DOT hazard class 0 R M - E		DOT ID code 12 1693	
8. Describe generation process. WASTE PROCESS CHEMICALS					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume(), % weight(), PPM() (V)
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a. OFF-SPECIFICATION TOXIC CHEMICALS		99	100
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 2	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0
a. Total Handled Offsite		TSDR handling/Waste management methods	
b. Amount Handled Onsite 2		TSDR handling/Waste management methods SOI	
c. Amount Handled Onsite		TSDR handling/Waste management methods	
d. Amount Handled Onsite		TSDR handling/Waste management methods	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 2.4	Goal year's ratio 36.9	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a) (No NA Yes)	g. High costs of haz. waste mgt. (g) (No NA Yes)
b. Technical feasibility (b) (No NA Yes)	h. Accidental generation (h) (No NA Yes)
c. Economic practicality (c) (No NA Yes)	i. Other - describe here: (i) (No NA Yes)
d. Measurement/accounting methods (d) (No NA Yes)	
e. TN hazardous waste regulations (e) (No NA Yes)	
f. Implementation experience (f) (No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Materials being reassigned rather than disposed when feasible.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY X-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. FLAMMABLE LIQUIDS (BULK)		Waste Stream number 138			
3. Give the years that this waste has been generated, e.g. 1975, 1982-.	Date no longer generated. (MM/DD/YY)	Frequency of generation (V) Continuous Accidental/ Various One time			
1990—					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). ABC		EPA waste codes. (Primary first; six maximum.) D001, D002, D0MX	SIC code for generating process. 2819.		
5. Physical form Liq-Othr (3)	% Solid 	% Water 	Vol. to wt. conversion (pounds/gallon) 0.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 2,000.0 3,375		Annual average (kg) 14,207.0 7,953	Maximum amount stored on-site (kg) 2,000.0 10,125	Maximum days stored 90	
7. DOT shipping name WASTE FLAMMABLE LIQUID, NOS		DOT hazard class Flam. liquid	DOT ID code 07	1993	
8. Describe generation process. FLAMMABLE LIQUID WASTES GENERATED DURING PLANT OPERATIONS.					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume (), % weight (), PPM ()
	140F		
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a. VARIOUS PROCESS AND LABORATORY WASTES		0	100
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

1. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	3,375	0	0

a	Total Handled OFFsite	TSDR handling/Waste management methods	b	Amount Handled ONsite	TSDR handling/Waste management methods
				560	501
c	Amount Handled ONsite	TSDR handling/Waste management methods	d	Amount Handled ONsite	TSDR handling/Waste management methods
	2,815	T07			

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
4.0	11.7	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (bX)	g. No effort (f)
c. Equipment/technology modification (cX)	h. Other - briefly explain here (g)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (No NA <u>Yes</u>)	g. High costs of haz. waste mgt (No NA <u>Yes</u>)
b. Technical feasibility (No NA <u>Yes</u>)	h. Accidental generation (No <u>NA</u> Yes)
c. Economic practicality (No NA <u>Yes</u>)	i. Other - describe here (No <u>NA</u> Yes)
d. Measurement/accounting methods (No <u>NA</u> Yes)	
e. TN hazardous waste regulations (No NA <u>Yes</u>)	
f. Implementation experience (No NA <u>Yes</u>)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Replaced a RCRA - waste generating platter. Reuse of toner solutions and less frequent cleaning of equipment implemented.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. COMBUSTIBLE LIQUIDS (BULK)		Waste Stream number 139			
3. Give the years that this waste has been generated, e.g. 1975, 1982-.	Date no longer generated. (MM/DD/YY)	Frequency of generation (V) Continuous Accidental/ Various One time			
1990—					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). A		EPA waste codes. (Primary first; six maximum.) 0001, D0MX, U0MY	SIC code for generating process. 2819.		
5. Physical form Liq-Othr (3)	% Solid	% Water	Vol. to wt. conversion (pounds/gallon) 0.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 728.0 400		Annual average (kg) 6,964.0 4,800	Maximum amount stored on-site (kg) 728.0 1,200	Maximum days stored 90	
7. DOT shipping name WASTE COMBUSTIBLE LIQUID, NOS		DOT hazard class Combustible	DOT ID code 01	1993	
8. Describe generation process. WASTE COMBUSTIBLE LIQUIDS, WITH FLASH POINTS BETWEEN 100 AND 140F GENERATED DURING PLANT OPERATIONS.					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH	Flash point 100F1	Reactive code	
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.	VARIOUS PROCESS AND LABORATORY WASTES	0	100
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	146	0	0

a	Total Handled OFFsite	TSDR handling/Waste management methods	b	Amount Handled ONSite	TSDR handling/Waste management methods
				146	SoI

c	Amount Handled ONSite	TSDR handling/Waste management methods	d	Amount Handled ONSite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
1.7	39.3	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generated from various plant operations.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535
Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. HAZARDOUS WASTE SOLID (LAB PACKS)				Waste Stream number 140	
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 (V) Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). BCEF		EPA waste codes. (Primary first; six maximum.) POMX, UOMX, DOMX, FOMX		SIC code for generating process. 2819.	
5. Physical form Slid:Othr (9)	% Solid	% Water	Vol. to wt. conversion (pounds/gallon) 0.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 375.0 1,000		Annual average (kg) 318.0 490		Maximum amount stored on-site: (kg) 375.0 1,000	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE SOLID, NOS		DOT hazard class ORM - E		12	DOT ID code 9189
8. Describe generation process. MISCELLANEOUS SMALL QUANTITY SOLIDS CONTAMINATED WITH HAZARDOUS MATERIALS.					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH	Flash point	Reactive code	
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a.	LEAD	5	20
b.	SILVER	5	20
c.	CADMIUM	1	20
d.	CHROMIUM	5	20
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	986	6	189

Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
a		803	501

Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
117.4	12.1	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	
- Facility decommissioning

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Generation of this waste is dependent on facility decommissioning activities. Materials are being reassigned rather than disposed when feasible.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative) TITLE: DATE:

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

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); Corrective Action (C); Waste water Rx (W).					Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. 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 (V) Continuous Accidental/ Various One time			
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). f		EPA waste codes. (Primary first; six maximum.) FOMX			
		SIC code for generating process. 2819.			
5. Physical form Liq-0thr (3)	% Solid	% Water	Vol. to wt. conversion (pounds/gallon) 0.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 72.0 250		Annual average (kg) 2,846.0 2,989		Maximum amount stored on-site (kg) 72.0 750	Maximum days stored 90
7. DOT shipping name WASTE ORM-A NOS		DOT hazard class ORM - E		DOT ID code 12	1693
8. Describe generation process. FREON WASTES GENERATED FROM PLANT OPERATIONS.					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (), % weight (), PPM () (V)	
pH	Flash point	Reactive code	
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a.	FREON	75	100
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 0	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0	
a	Total Handled OFFsite	TSDR handling/Waste management methods	b Amount Handled ONSite	TSDR handling/Waste management methods
c	Amount Handled ONSite	TSDR handling/Waste management methods	d Amount Handled ONSite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	10.0	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste not generated this year.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status	Further Reporting
		Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. 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 (V) Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). ABC		EPA waste codes. (Primary first; six maximum.) D002, D0MX		SIC code for generating process. 2819,	
5. Physical form Liq-Matr (2)	% Solid	% Water	Vol. to wt. conversion (pounds/gallon) 0.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 2,500.0 1030		Annual average (kg) 2,734.0 4,813		Maximum amount stored on-site (kg) 2,500.0 3,090	Maximum days stored 90
7. DOT shipping name WASTE CORROSIVE LIQUIDS, NOS			DOT hazard class Corrosive	DOT ID code 02	1760
8. Describe generation process. LARGE QUANTITY WASTE CORROSIVE LIQUIDS GENERATED DURING PLANT OPERATIONS.					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH 12	Flash point	Reactive code	% volume(), % weight(), PPM()	
Major and hazardous constituents. Give range or values at right.			lower value	upper value
a. VARIOUS PROCESS WASTES			0	100
b.				
c.				
d.				
e.				
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	1,028	0	0

a	Total Handled Offsite	TSDR handling/Waste management methods	b	Amount Handled Onsite	TSDR handling/Waste management methods
				1,028	SOI
c	Amount Handled Onsite	TSDR handling/Waste management methods	d	Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
12.2	88.8	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (fX)
b. In process recycling (b)	g. No effort (f)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt. g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here: i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. TN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

*Electrolytes used in etching operation
being evaluated for reduction in use.*

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004				
2. Waste name. Use standard name from regulations whenever possible. WASTE ORM-B (LAB PACKS)		Waste Stream number 143				
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1989		Date no longer generated. (MM/DD/YY) 12/31/89				
		Frequency of generation (V) Continuous Accidental/ Various One time				
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). g		EPA waste codes. (Primary first; six maximum.) 00MX				
		SIC code for generating process. 2819				
5. Physical form Sld:Othr (g)	% Solid	% Water	Vol. to wt. conversion (pounds/gallon) 0.000	If used for fuel, chlorine content (PPM) 0.0		BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 4.0		Annual average (kg) 4.0		Maximum amount stored on-site (kg) 4.0		Maximum days stored 90
7. DOT shipping name WASTE ORM-B NOS		DOT hazard class ORM - E		DOT ID code 12 1760		
8. Describe generation process. WASTE CHEMICALS FROM LABORATORY OPERATION.						

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM() (X) (W)	
pH	Flash point	Reactive code	
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a. CADMIUM FLUORIDE		75	100
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 0	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0	
a	Total Handled OFFsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
c	Amount Handled ONsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.	This year's actual ratio 0	Goal year's ratio 0	Goal Year NA	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates 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. Reduction research/planning (f) g. No effort (fX) h. Other - briefly explain here. (g)

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.
a. Training or technical assistance.....a(No NA Yes) b. Technical feasibility.....b(No NA Yes) c. Economic practicality.....c(No NA Yes) d. Measurement/accounting methods.....d(No NA Yes) e. TN hazardous waste regulations.....e(No NA Yes) f. Implementation experience.....f(No NA Yes) g. High costs of haz. waste mgt....g(No NA Yes) h. Accidental generation.....h(No NA Yes) i. Other - describe here:.....i(No NA Yes)

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste not generated this year and likely will not be generated on a regular basis in the future.

16. Certification: I certify that the information given on this form 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? Yes No	Test results? Yes No	Reasonable? Yes No	Follow up Yes No	Initials
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); Corrective Action (C); Waste water Rx (W).					Status Further Reporting Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. CONTAMINATED GROUNDWATER COLLECTED FROM VICINITY OF K-1070				Waste Stream number 144	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (C) Continuous _____ Accidental/ One time _____ Various _____	
1980-91 1991-					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>F</u>				EPA waste codes. (Primary first; six maximum.) F001, F002, F003, F005 F039	
5. Physical form				SIC code for generating process. 2819,	
Liq-Watr (2)	% Solid <1	% Water >99	Vol. to wt. conversion (pounds/gallon) 8.340	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 7,000.0			Annual average (kg) 28,637.0 26,644		Maximum amount stored on-site (kg) 28,637.0 21,000
7. DOT shipping name RADIOACTIVE MATERIAL NOS			DOT hazard class Radioactive		DOT ID code 16 2982
8. Describe generation process. CONTAMINATED GROUND WATER COLLECTED FROM VICINITY OF K-1070 BURIAL GROUND					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH 2.0	Flash point	Reactive code		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a.	TETRACHLOROETHYLENE		0.064	0.104
b.	1,1-DICHLOROETHANE		0.400	0.420
c.	1,1,1 TRICHLOROETHANE		3.6	3.8
d.	TOLUENE		0.580	0.620
e.	XYLENE (TOTAL)		0.240	0.260
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 02/94

Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "I", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	24,833	0	2,100

a	Total Handled OFFsite	TSDR handling/Waste management methods	b	Amount Handled ONsite	TSDR handling/Waste management methods
				465	So1
c	Amount Handled ONsite	TSDR handling/Waste management methods	d	Amount Handled ONsite	TSDR handling/Waste management methods
	22,268	H06			

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
29.4	13.2	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here: (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	
- Environmental conditions

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generation dependent on sleep flow rate.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

AIIM

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3 of 3

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. OILY RAGS AND SOLIDS				Waste Stream number 145	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (C) Continuous _____ Accidental/ One time _____ Various _____	
1990-					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).				EPA waste codes. (Primary first; six maximum.) DOMX, FOMX, UDMX	
SIC code for generating process. 2819,					
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM)	BTU per pound
Sld:Othr (9)	100		8.000	0.0	0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg)			Annual average (kg)	Maximum amount stored on-site (kg)	Maximum days stored
2,500.0			17,075.0 14,354	2,500.0 7,500	90
7. DOT shipping name HAZARDOUS WASTE SOLID NOS				DOT hazard class ORM - E	DOT ID code 12 NA9189
8. Describe generation process. WASTE GENERATED FROM PLANT PROCESSES					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH NA	Flash point NA	Reactive code NA		
Major and hazardous constituents. Give range or values at right.			lower value	upper value
a. OIL			0	50
b. BENZENE			0.5ppm	
c.				
d.				
e.				
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 15,146	Amount on-site in temporary storage on the first day of year (kg) 631	Amount on-site in temporary storage on the last day of year (kg) 719
a. Total Handled <u>Offsite</u>		TSDR handling/Waste management methods	
b. Amount Handled <u>Onsite</u> 15,058		TSDR handling/Waste management methods SOI	
c. Amount Handled <u>Onsite</u>		TSDR handling/Waste management methods	
d. Amount Handled <u>Onsite</u>		TSDR handling/Waste management methods	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 18.0	Goal year's ratio 19.1	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (cX)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a) (No NA <u>Yes</u>)	g. High costs of haz. waste mgt. (g) (No NA <u>Yes</u>)
b. Technical feasibility (b) (No NA <u>Yes</u>)	h. Accidental generation (h) (No NA <u>Yes</u>)
c. Economic practicality (c) (No NA <u>Yes</u>)	i. Other - describe here: (i) (No NA <u>Yes</u>)
d. Measurement/accounting methods (d) (No NA <u>Yes</u>)	
e. TN hazardous waste regulations (e) (No NA <u>Yes</u>)	
f. Implementation experience (f) (No NA <u>Yes</u>)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Purchase and installation of better, more efficient oil booms, constructed of more durable and longer lasting material will reduce volume of waste booms generated. Elimination of cleaning operation in plant maintenance services. Launderable rags being used to replace disposable where feasible.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct. Certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. LABORATORY TRASH		Waste Stream number 146	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1991-		Date no longer generated. (MM/DD/YY)	
		Frequency of generation (C) Continuous _____ Accidental/ One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>f</u>		EPA waste codes. (Primary first; six maximum.) DOMX, FOMX, LOMX	
		SIC code for generating process. 2819	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)
Sld:0thr (9)	100		8.000
		If used for fuel, chlorine content (PPM)	
		0.0	
		BTU per pound	
		0.0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg)		Maximum amount stored on-site (kg)	
1,000.0		1,000.0 3,000	
Annual average (kg)		Maximum days stored	
2,398.0 5,197		90	
7. DOT shipping name HAZARDOUS WASTE SOLID NOS		DOT hazard class ORM - E	
		12	
		DOT ID code NA9189	
8. Describe generation process. TRASH MATERIALS GENERATED DURING ANALYSIS OF HAZARDOUS WASTE SAMPLES.			

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
OH	Flash point	Reactive code	% volume (), % weight (X), PPM ()
NA	NA	NA	
Major and hazardous constituents. Give range of values at right.		Lower value	Upper value
a. PAPER & PLASTIC			100
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 2,795	Amount on-site in temporary storage on the first day of year (kg) 101	Amount on-site in temporary storage on the last day of year (kg) 125
a. Total Handled OFFsite		b. Amount Handled ONsite	
TSDR handling/Waste management methods		TSDR handling/Waste management methods	
2,771		501	
c. Amount Handled ONsite		d. Amount Handled ONsite	
TSDR handling/Waste management methods		TSDR handling/Waste management methods	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 33.3	Goal year's ratio 98.8	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (eX)	

Training

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA <u>Yes</u>)	g. High costs of haz. waste mgt g(No NA <u>Yes</u>)
b. Technical feasibility b(No NA <u>Yes</u>)	h. Accidental generation h(No NA <u>Yes</u>)
c. Economic practicality c(No NA <u>Yes</u>)	i. Other - describe here: i(No NA <u>Yes</u>)
d. Measurement/accounting methods d(No NA <u>Yes</u>)	
e. TN hazardous waste regulations e(No NA <u>Yes</u>)	
f. Implementation experience f(No NA <u>Yes</u>)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste reduction training conducted in the laboratory.
Improved segregation of waste materials.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).					Status Further Reporting Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct. Certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. K-1417 WASTE WATER AND RAIN WATER RUN-OFF				Waste Stream number 147	
3. Give the years that this waste has been generated, e.g. 1975, 1982- 1991-		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>F</u>		EPA waste codes. (Primary first; six maximum.) F006		SIC code for generating process. 2819.	
5. Physical form Liq-Watr (2)	% Solid <1	% Water 99	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 1,000.0		Annual average (kg) 12,000.0 - 0		Maximum amount stored on-site (kg) 1,000.0	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE LIQUID NOS			DOT hazard class 0 R M - E		DOT ID code 12 9189

8. Describe generation process.

WASTE WATERS GENERATED FROM RAINWATER RUNOFF GENERATED AT THE K-1417 CONCRETE BLOCK CASTINGS AND STORAGE UNIT.
WASTE WATERS ARE COLLECTED IN THE K-1417 WASTEWATER SUMP AND TREATED AT THE CENTRAL NEUTRALIZATION FACILITY WASTE.

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (), % weight (), PPM ()	
pH	Flash point	Reactive code		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a. WATER				>99%
b. TRACE AMOUNTS OF WASTE CONSTITUENTS NICKEL HYDROXIDE				TRACE
c. URANIUM				TRACE
d.				
e.				

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

THIS WASTE WATER IS NOT RECOVERED, RECLAIMED, RECYCLED, OR REUSED. THIS WASTE WATER IS NOT RECOVERED, RECLAIMED, RECYCLED, OR REUSED. THIS WASTE WATER IS NOT RECOVERED, RECLAIMED, RECYCLED, OR REUSED.

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 0	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0	
a Total Handled <u>Offsite</u>		TSDR handling/Waste management methods	b Amount Handled <u>Onsite</u>	TSDR handling/Waste management methods
c Amount Handled <u>Onsite</u>		TSDR handling/Waste management methods	d Amount Handled <u>Onsite</u>	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here: (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste not generated this year and likely will not be generated in the future.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting
	Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. K-1435 TSCA INCINERATOR WASTE WATERS				Waste Stream number 148	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous _____ Accidental/ One time _____ Various _____	
1991 -					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>F</u>				EPA waste codes. (Primary first; six maximum.) DOMX, FOMX, UOMX	
				SIC code for generating process. 2819.	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM) BTU per pound	
Liq-Watr (2)	<1	>99	8.000	0.0	0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg)			Annual average (kg)	Maximum amount stored on-site (kg)	Maximum days stored
5,500,000.0 6,300,000			55,240,113.0 61,982,474	650,000.0	4
7. DOT shipping name HAZARDOUS WASTE LIQUID NOS				DOT hazard class 0 R M - E	DOT ID code 12 9189

8. Describe generation process.

WASTE WATERS GENERATED DURING THE OPERATION OF THE K-1435 TSCA INCINERATOR. THE WASTE WATERS CONSIST OF WATERS USED DURING THE COOLING PROCESS OF THE RESULANT ASH. BLOW DOWNS AND ANY WASHWATERS.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
Flash point	Reactive code		
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a. WATER			>99%
b. TRACE AMOUNTS OF WASTE CONSTITUENTS			
c.			
d.			
e.			

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

Date: 02/94

1. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 75,467,196	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0
a. Total Handled <u>Offsite</u>		TSDR handling/Waste management methods	b. Amount Handled <u>Onsite</u> 6666
			TSDR handling/Waste management methods 501
c. Amount Handled <u>Onsite</u> 75,466,536		TSDR handling/Waste management methods H06	d. Amount Handled <u>Onsite</u>
			TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 16.6	Goal year's ratio 20.7	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

- a. Reformulation/redesign of product . . . (a)
- b. In process recycling (bX)
- c. Equipment/technology modification . . . (c)
- d. Substituting raw materials (d)
- e. Improved operations (e)
- f. Reduction research/planning (rX)
- g. No effort (f)
- h. Other - briefly explain here. (g)

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

- a. Training or technical assistance a(No NA Yes)
- b. Technical feasibility b(No NA Yes)
- c. Economic practicality c(No NA Yes)
- d. Measurement/accounting methods d(No NA Yes)
- e. TN hazardous waste regulations e(No NA Yes)
- f. Implementation experience f(No NA Yes)
- g. High costs of haz. waste mgt g(No NA Yes)
- h. Accidental generation h(No NA Yes)
- i. Other - describe here: i(No NA Yes)

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Equipment cooling water discharged into CNF will be diverted and reused by the incinerator for slow down water.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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** 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. AEROSOL CANS				Waste Stream number 149	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (C) Continuous _____ Accidental/ Various _____ One time _____	
1991-					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). AG				EPA waste codes. (Primary first; six maximum.) 0001, 0018	
				SIC code for generating process. 2819,	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM) BTU per pound	
Gas (1)			0.000	0.0	0.0
6. Generation rates. Supply all rates in kilograms.			Maximum amount stored on-site		Maximum days stored
Monthly maximum (kg)			Annual average (kg)		
1,033.0 845			1,603.0 1,350		90
7. DOT shipping name			DOT hazard class		DOT ID code
COMPRESSED GAS, FLAMMABLE			Flam. gas		06 UN1954
8. Describe generation process. DISCARDED AEROSOL CANS FROM VARIOUS PLANT PROCESS.					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume(), % weight(), PPM() (X) (W)	
Major and hazardous constituents. Give range or values at right.			lower value	upper value
a. WASTE AEROSOL CANS			100	100
b.				
c.				
d.				
e.				
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 845	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0
a. Total Handled Offsite		TSDR handling/Waste management methods	b. Amount Handled Onsite 845
c. Amount Handled Onsite		TSDR handling/Waste management methods	d. Amount Handled Onsite 501

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 10.1	Goal year's ratio 11.5	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (f)
c. Equipment/technology modification (c)	h. Other - briefly explain here (g)
d. Substituting raw materials (dX)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Use of aerosol cans significantly reduced at the plant.
Non-aerosol products substituted where feasible.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).					Status Further Reporting Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. K-1417 AND K-25 DECANT WASTEWATERS				Waste Stream number 150	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1991 - 1993		Date no longer generated. (MM/DD/YY) 12/31/93		Frequency of generation (V) Continuous ☐ Accidental/ One time ☒ Various ☐	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>F</u>		EPA waste codes. (Primary first; six maximum.) F006		SIC code for generating process. 2819.	
5. Physical form Liq-Watr (2)	% Solid <1	% Water >99	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0 BTU per pound 0.0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 2,000.0			Annual average (kg) 25,000.0 ☐	Maximum amount stored on-site (kg) 1,800.0 2,000	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE LIQUID NOS			DOT hazard class ORM - E	DOT ID code 12	9189

8. Describe generation process.

WASTEWATER GENERATED FROM THE DECANTING OF ANY WATER REMAINING IN THE CONTAINERS OF WASTE STORED IN THE K-1417 CONCRETE BLOCK CASTING AND STORAGE CONTAINERS OF WASTE STORAGE AREA. WASTE WATERS ARE COLLECTED FROM BOTH CONTAINERS STORED IN THE K-1417 AND K-25 UNITS AND ARE TREATED AT THE CENTRAL NEUTRALIZATION FACILITY.

9. Chemical Characteristics.

PH	Flash point	Reactive code	Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (), % weight (), PPM ()	
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a. WATER				>99
b. TRACE METALS AND WASTE CONSTITUENTS				
c.				
d.				
e.				

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 0	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0		
a	Total Handled <u>Offsite</u>	TSDR handling/Waste management methods	b	Amount Handled <u>Onsite</u>	TSDR handling/Waste management methods
c	Amount Handled <u>Onsite</u>	TSDR handling/Waste management methods	d	Amount Handled <u>Onsite</u>	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance.....a(No <u>NA</u> Yes)	g. High costs of haz. waste mgt....g(No <u>NA</u> Yes)
b. Technical feasibility.....b(No <u>NA</u> Yes)	h. Accidental generation.....h(No <u>NA</u> Yes)
c. Economic practicality.....c(No <u>NA</u> Yes)	i. Other - describe here:.....i(No <u>NA</u> Yes)
d. Measurement/accounting methods.....d(No <u>NA</u> Yes)	
e. TN hazardous waste regulations.....e(No <u>NA</u> Yes)	
f. Implementation experience.....f(No <u>NA</u> Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste not generated this year and likely will not be generated in the future.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).					Status Further Reporting Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE			EPA identification code TNO 89-009-0004		
2. Waste name. Use standard name from regulations whenever possible. OXIDIZING ACIDIC LIQUIDS (BULK)			Waste Stream number 151		
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1991-		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous _____ Accidental/ One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).		EPA waste codes. (Primary first; six maximum.) 0002,0001		SIC code for generating process. 2819,	
5. Physical form Liq-0thr (3)	% Solid	% Water	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 1,422.0		Annual average (kg) 349.0 474		Maximum amount stored on-site (kg) 1,422.0	Maximum days stored 90
7. DOT shipping name WASTE OXIDIZER, CORROSIVE, LIQUID NOS			DOT hazard class Oxidizer	DOT ID code 13	NA9193
8. Describe generation process. GENERATED FROM VARIOUS PLANT PROCESSES.					

9. Chemical Characteristics.		Flash point 2140°F		Reactive code NA		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (), % weight (X), PPM ()	
Major and hazardous constituents. Give range of values at right.				lower value		upper value	
a. NITRIC ACID				40			
b.							
c.							
d.							
e.							
10. If this waste is recovered, reclaimed, recycled or reused, describe how.							

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	0	0	0

Total Handled OFFsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
a		b	

Amount Handled ONsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	15.9	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No <u>NA</u> Yes)	g. High costs of haz. waste mgt g(No <u>NA</u> Yes)
b. Technical feasibility b(No <u>NA</u> Yes)	h. Accidental generation h(No <u>NA</u> Yes)
c. Economic practicality c(No <u>NA</u> Yes)	i. Other - describe here i(No <u>NA</u> Yes)
d. Measurement/accounting methods d(No <u>NA</u> Yes)	
e. TN hazardous waste regulations e(No <u>NA</u> Yes)	
f. Implementation experience f(No <u>NA</u> Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste not generated this year.

16. Certification: I certify that the information given on this form 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
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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); Corrective Action (C); Waste water Rx (W).

Status Further Reporting

Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. OXIDIZING LIQUIDS (BULK)		Waste Stream number 152	
3. Give the years that this waste has been generated, e.g. 1975, 1982- 1991-		Date no longer generated. (MM/DD/YY)	
Frequency of generation (V) 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), TCLP (g). ACG		EPA waste codes. (Primary first; six maximum.) 0001.0002	
SIC code for generating process. 2819.			
5. Physical form Liq-Othr (3)	% Solid	% Water	Vol. to wt. conversion (pounds/gallon) 8.000
			If used for fuel, chlorine content (PPM) 0.0
			BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 142.0		Annual average (kg) 140 47	
Maximum amount stored on-site (kg) 142.0		Maximum days stored 90	
7. DOT shipping name WASTE OXIDIZER		DOT hazard class Oxidizer	
		DOT ID code 13 1479	
8. Describe generation process. GENERATED FROM VARIOUS PLANT PROCESSES.			

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH >12.5	Flash point <140°F	Reactive code NA	% volume(), % weight(X), PPM()
Major and hazardous constituents. Give range of values at right.		Lower value	Upper value
a. VARIOUS PROCESS WASTES		0	100
b.			
c.			
d.			
e.			

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

Date: 02/94

1. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	0	0	0

a	Total Handled Offsite	TSDR handling/Waste management methods	b	Amount Handled Onsite	TSDR handling/Waste management methods
c	Amount Handled Onsite	TSDR handling/Waste management methods	d	Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	15.9	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No ☒ NA Yes)	g. High costs of haz. waste mgt g(No ☒ NA Yes)
b. Technical feasibility b(No ☒ NA Yes)	h. Accidental generation h(No ☒ NA Yes)
c. Economic practicality c(No ☒ NA Yes)	i. Other - describe here: i(No ☒ NA Yes)
d. Measurement/accounting methods d(No ☒ NA Yes)	
e. TN hazardous waste regulations e(No ☒ NA Yes)	
f. Implementation experience f(No ☒ NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste not generated this year.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. OXIDIZING SOLIDS (BULK)				Waste Stream number 153	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1991-		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time One time One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). A		EPA waste codes. (Primary first; six maximum.) 0001		SIC code for generating process. 2819.	
5. Physical form Sld:Othr (9)	% Solid 100	% Water	Vol. to wt. conversion (pounds/gallon) 0.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 45.0		Annual average (kg) 28.0 15		Maximum amount stored on-site (kg) 45.0	Maximum days stored 90
7. DOT shipping name WASTE OXIDIZING MATERIAL		DOT hazard class Oxidizer		DOT ID code 13	1479
8. Describe generation process. GENERATED FROM VARIOUS PLANT PROCESSES.					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(X), PPM()	
pH NA	Flash point NA	Reactive code NA		
Major and hazardous constituents. Give range or values at right.			lower value	upper value
a. VARIOUS PROCESS WASTES			0	100
b.				
c.				
d.				
e.				
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
	0	0	0
a. Total Handled Offsite		TSDR handling/Waste management methods	b. Amount Handled Onsite
			TSDR handling/Waste management methods
c. Amount Handled Onsite		TSDR handling/Waste management methods	d. Amount Handled Onsite
			TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	50.3	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt. g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here: i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. TN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Haz. not generated this year.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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); Corrective Action (C); Waste water Rx (W).					Status Further Reporting Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. EXPLOSIVES		Waste Stream number 154	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1991		Date no longer generated. (MM/DD/YY) 0003	
		Frequency of generation (A) Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). E		EPA waste codes. (Primary first; six maximum.) 0003	
		SIC code for generating process. 2819	
5. Physical form Sld:Othr (9)	% Solid 100	% Water 0.000	Vol. to wt. conversion (pounds/gallon) 0.0
			If used for fuel, chlorine content (PPM) 0.0
			BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 1.0		Annual average (kg) 1.0	
		Maximum amount stored on-site (kg) 1.0	
		Maximum days stored 90	
7. DOT shipping name WASTE HIGH EXPLOSIVE, CLASS A EXPLOSIVE (PICRIC AC		DOT hazard class Explosive A	
		DOT ID code 04	
8. Describe generation process. GENERATED FROM CLEANOUT OF FACILITY.			

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (), % weight (), PPM ()	
pH	Flash point	Reactive code	
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a. PICRIC PICRIC ACID		1.0	
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

1. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 0	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0	
a. Total Handled OFFsite		TSDR handling/Waste management methods	b. Amount Handled ONsite	TSDR handling/Waste management methods
c. Amount Handled ONsite		TSDR handling/Waste management methods	d. Amount Handled ONsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	11.2	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here: (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste not generated this year and will not be generated on a regular basis in the future.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status	Further Reporting
		Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. TSCA INCINERATOR TRASH				Waste Stream number 155	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (C) Continuous ☐ Accidental/ One time ☒ Various ☐	
1990-					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).		EPA waste codes. (Primary first; six maximum.) 6 DOMX, FOMX, UOMX		SIC code for generating process. 2819,	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM)	BTU per pound
Sld:Othr (9)	100		8.000	0.0	0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg)			Maximum amount stored on-site (kg)		Maximum days stored
1,000.0 1,100			1,000.0 3,300		90
Annual average (kg)					
1,229.0 11,582					
7. DOT shipping name HAZARDOUS WASTE SOLID, NOS			DOT hazard class 0 R M - E		DOT ID code 12 9189
8. Describe generation process. GENERATED DURING TREATMENT OF HAZARDOUS WASTE AT THE TSCA INCINERATOR.					

9. Chemical Characteristics.		Flash point		Reactive code		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH							
Major and hazardous constituents. Give range of values at right.				lower value		upper value	
a. RAGS, WIPES, PAPER				100		100	
b.							
c.							
d.							
e.							
10. If this waste is recovered, reclaimed, recycled or reused, describe how.							

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 12,287	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0
a. Total Handled OFFsite		TSDR handling/Waste management methods	b. Amount Handled ONsite 12,287
			TSDR handling/Waste management methods Sol
c. Amount Handled ONsite		TSDR handling/Waste management methods	d. Amount Handled ONsite
			TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 27.1	Goal year's ratio 38.4	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Segregation of trash to minimize hazardous waste generation.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. TSCA INCINERATOR FEED MATERIALS SECONDARY WASTES				Waste Stream number 156	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (C) Continuous ☐ Accidental/ One time ☐ Various ☐	
1990-					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). <u>6</u>				EPA waste codes. (Primary first; six maximum.) DOMX, FOMX, UOMX	
5. Physical form Liq-Othr (3)				SIC code for generating process. 2819,	
% Solid		% Water		If used for fuel, chlorine content (PPM)	
				BTU per pound	
Vol. to wt. conversion (pounds/gallon)					
8.000				0.0	
0.0				0.0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg)		Annual average (kg)		Maximum amount stored on-site (kg)	
2,500.0		33,824.0 22,723		2,500.0	
Maximum days stored				90	
7. DOT shipping name HAZARDOUS WASTE, LIQUID		DOT hazard class O R M - E		DOT ID code 12 9189	

8. Describe generation process.

~~EXCESSIVE FEED MATERIALS.~~

Wastes generated from treatment of waste at incinerator.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume (), % weight (X), PPM ()
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a. WATER			>99
b.			
c.			
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 521	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0
a. Total Handled OFFsite		TSDR handling/Waste management methods	
b. Amount Handled ONsite 521		TSDR handling/Waste management methods 501	
c. Amount Handled ONsite		TSDR handling/Waste management methods	
d. Amount Handled ONsite		TSDR handling/Waste management methods	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 11.5	Goal year's ratio 1498.0	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (X)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance.....a(No NA Yes)	g. High costs of haz. waste mgt....g(No NA Yes)
b. Technical feasibility.....b(No NA Yes)	h. Accidental generation.....h(No NA Yes)
c. Economic practicality.....c(No NA Yes)	i. Other - describe here:.....i(No NA Yes)
d. Measurement/accounting methods.....d(No NA Yes)	
e. TN hazardous waste regulations.....e(No NA Yes)	
f. Implementation experience.....f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative) TITLE: DATE:

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

7. 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. RESPIRATOR CARTRIDGES				Waste Stream number 157	
3. Give the years that this waste has been generated, e.g. 1975, 1982- 1991-		Date no longer generated. (MM/DD/YY)		Frequency of generation (C) Continuous _____ Accidental/ One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). g		EPA waste codes. (Primary first; six maximum.) 0007, FOMX		SIC code for generating process. 2819,	
5. Physical form Sld:Othr (9)	% Solid 100	% Water	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 3,650.0 250		Annual average (kg) 2,901.0 2,018		Maximum amount stored on-site (kg) 3,650.0 750	Maximum days stored 30
7. DOT shipping name HAZARDOUS WASTE SOLID, NOS		DOT hazard class ORM - E		12	DOT ID code 9189
8. Describe generation process. RESPIRATOR CARTRIDGES USED IN VARIOUS PLANT PROCESSES.					

9. Chemical Characteristics.		Flash point		Reactive code		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM(X)	
pH NA		NA		NA			
Major and hazardous constituents. Give range or values at right.				Lower value		Upper value	
a. CHROMIUM				5.0			
b.							
c.							
d.							
e.							

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 253	Amount on-site in temporary storage on the first day of year (kg) 313	Amount on-site in temporary storage on the last day of year (kg) 0
a	Total Handled OFFsite	TSDR handling/Waste management methods	b: Amount Handled ONsite 566
c	Amount Handled ONsite	TSDR handling/Waste management methods	d: Amount Handled ONsite 501

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.
This year's actual ratio 3.0
Goal year's ratio 40.8
Goal Year 1995
If no numeric goal has been set, describe your efforts to set one in line 15 below.

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates 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. Reduction research/planning (f)
 - g. No effort (g)
 - h. Other - briefly explain here. (h)

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.
a. Training or technical assistance.....a(No NA <u>Yes</u>)	g. High costs of haz. waste mgt....g(No NA <u>Yes</u>)
b. Technical feasibility.....b(No NA <u>Yes</u>)	h. Accidental generation.....h(No NA <u>Yes</u>)
c. Economic practicality.....c(No NA <u>Yes</u>)	i. Other - describe here:.....i(No NA <u>Yes</u>)
d. Measurement/accounting methods.....d(No NA <u>Yes</u>)	
e. TN hazardous waste regulations.....e(No NA <u>Yes</u>)	
f. Implementation experience.....f(No NA <u>Yes</u>)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Discontinued use of chromium-based cartridges.

16. Certification: I certify that the information given on this form 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? Yes No	Test results? Yes No	Reasonable? Yes No	Follow up Yes No	Initials
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); Corrective Action (C); Waste water Rx (W).	Status	Further Reporting	Y N		

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. BATTERIES				Waste Stream number 158	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1990-		Date no longer generated. (MM/DD/YY)		Frequency of generation (C) Continuous ☐ Accidental/ One time ☐ Various ☐	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). CG		EPA waste codes. (Primary first; six maximum.) D002.D0MX		SIC code for generating process. 2819,	
5. Physical form Sld:Othr (9)	% Solid	% Water	Vol. to wt. conversion (pounds/gallon) 0.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 400		Annual average (kg) 4,182		Maximum amount stored on-site (kg) 1,200	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE SOLID, NOS			DOT hazard class O R M - E		DOT ID code 12 9189
8. Describe generation process. BATTERIES USED IN PLANT EQUIPMENT					

9. Chemical Characteristics.		Flash point		Reactive code		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (), % weight (), PPM (X)	
pH		NA		9			
Major and hazardous constituents. Give range or values at right.				lower value		upper value	
a. LEAD				5.0			
b. CADMIUM				1.0			
c. SILVER				5.0			
d. LITHIUM							
e. SULFURIC ACID							

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

Date: 02/94

1. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 3,564	Amount on-site in temporary storage on the first day of year (kg) 193	Amount on-site in temporary storage on the last day of year (kg) 2,000
a. Total Handled Offsite		TSDR handling/Waste management methods	b. Amount Handled Onsite 1,604
c. Amount Handled Onsite 153		TSDR handling/Waste management methods H06	d. Amount Handled Onsite
		TSDR handling/Waste management methods	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 42.4	Goal year's ratio 55.0	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (dX)	
e. Improved operations (eX)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance.....a(No NA <u>Yes</u>)	g. High costs of haz. waste mgt....g(No NA <u>Yes</u>)
b. Technical feasibility.....b(No NA <u>Yes</u>)	h. Accidental generation.....h(No NA <u>Yes</u>)
c. Economic practicality.....c(No <u>NA</u> Yes)	i. Other - describe here:.....i(No <u>NA</u> Yes)
d. Measurement/accounting methods.....d(No <u>NA</u> Yes)	
e. TN hazardous waste regulations.....e(No NA <u>Yes</u>)	
f. Implementation experience.....f(No NA <u>Yes</u>)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Lead-acid batteries to be sent offsite for recycle.
Less toxic batteries be used to replace batteries in equipment where feasible.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. TSCA INCINERATOR SOLIDS				Waste Stream number 159	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1990-		Date no longer generated. (MM/DD/YY)		Frequency of generation (C) Continuous _____ Accidental/One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).		EPA waste codes. (Primary first; six maximum.) DOMX, FOMX, UOMX		SIC code for generating process. 2819.	
5. Physical form Sld:Othr (9)	% Solid 100	% Water	Vol. to wt. conversion (pounds/gallon) 0.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 5,000.0		Annual average (kg) 52,078.0 - 40,944		Maximum amount stored on-site (kg) 1,500.0	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE SOLID, NOS		DOT hazard class O R M - E		12	DOT ID code 9189
8. Describe generation process. GENERATED FROM TREATMENT OF HAZARDOUS WASTE AT THE TSCA INCINERATOR.					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (), % weight (X), PPM ()	
pH NA	Flash point NA	Reactive code NA		
Major and hazardous constituents. Give range or values at right.			lower value	upper value
a. WOOD			0	100
b. METAL			0	100
c. REFRACTORY BRICK			0	100
d.				
e.				

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 18,683	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0
a. Total Handled <u>Offsite</u>		b. Amount Handled <u>Onsite</u>	
TSDR handling/Waste management methods		TSDR handling/Waste management methods	
c. Amount Handled <u>Onsite</u>		d. Amount Handled <u>Onsite</u>	
TSDR handling/Waste management methods		TSDR handling/Waste management methods	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 41.2	Goal year's ratio 299.2	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance.....a(No NA <u>Yes</u>)	g. High costs of haz. waste mgt....g(No NA <u>Yes</u>)
b. Technical feasibility.....b(No NA <u>Yes</u>)	h. Accidental generation.....h(No NA <u>Yes</u>)
c. Economic practicality.....c(No NA <u>Yes</u>)	i. Other - describe here:.....i(No NA <u>Yes</u>)
d. Measurement/accounting methods.....d(No NA <u>Yes</u>)	
e. TN hazardous waste regulations.....e(No NA <u>Yes</u>)	
f. Implementation experience.....f(No NA <u>Yes</u>)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generation is a function of waste quantities and types treated.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. COMBUSTIBLE LIQUID (LAB PACK)		Waste Stream number 160			
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1991-	Date no longer generated. (MM/DD/YY)	Frequency of generation (V) Continuous Accidental/ Various One time			
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). AG	EPA waste codes. (Primary first; six maximum.) D001, D0MX	SIC code for generating process. 2819,			
5. Physical form Liq-Othr (3)	% Solid %	% Water %	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all Monthly maximum (kg) 2,435.0	rates in kilograms. Annual average (kg) 45.0 812	Maximum amount stored on-site (kg) 2,435.0		Maximum days stored 90	
7. DOT shipping name WASTE FLAMMABLE LIQUID, NOS	DOT hazard class Flam. liquid		DOT ID code 07	1993	
8. Describe generation process. GENERATED FROM VARIOUS LABORATORY AND PLANT PROCESSES. GENERATED FROM VARIOUS LABORATORY AND PLANT PROCESSES. GENERATED FROM VARIOUS LABORATORY AND PLANT PROCESSES. GENERATED FROM VARIOUS LABORATORY AND PLANT PROCESSES.					

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (X), % weight (), PPM ()	
PM NA	Flash point <140°F	Reactive code NA	
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a.	OIL	0	100
b.	SOLVENT	0	100
c.	DIESEL	0	100
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "TM", "SM", or "DM" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)	
1993	0	0	0	
a	Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c	Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	27.2	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here: (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

waste not generated this year.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management,
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. CORROSIVE SOLIDS (BULK)		Waste Stream number 161			
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1991-		Date no longer generated. (MM/DD/YY)	Frequency of generation (V) Continuous Accidental/ Various One time		
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). C		EPA waste codes. (Primary first; six maximum.) 0002	SIC code for generating process. 2819,		
5. Physical form Sld:Othr (9)	% Solid 100	% Water	Vol. to wt. conversion (pounds/gallon) 0.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 6,336.0 4,500		Annual average (kg) 6,336.0 4,429		Maximum amount stored on-site (kg) 6,336.0 4,500	Maximum days stored 90
7. DOT shipping name WASTE CORROSIVE SOLIDS, NOS		DOT hazard class Corrosive		DOT ID code 02	1759
8. Describe generation process.					

GENERATED FROM VARIOUS PLANT PROCESSES AND
FACILITY DECOMMISSIONING ACTIVITIES.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
OH 42.0	Flash point NA	Reactive code NA	
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a. SULFURIC ACID			
b. ABSORBENT			
c. IRON			
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 616	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0
a. Total Handled OFFsite		TSDR handling/Waste management methods	
b. Amount Handled ONsite 616		TSDR handling/Waste management methods S01	
c. Amount Handled ONsite		TSDR handling/Waste management methods	
d. Amount Handled ONsite		TSDR handling/Waste management methods	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 0.7	Goal year's ratio 14.2	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generated on an intermittent basis.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. WASTE ORM-B (BULK)		Waste Stream number 162			
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1993		Date no longer generated. (MM/DD/YY) 12/31/93			
Frequency of generation Continuous ☐ Accidental/ ☐ Various ☒ One time					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). 6		EPA waste codes. (Primary first; six maximum.) DOMX, FOMX, UOMX			
SIC code for generating process. 2819,					
5. Physical form Liq-Othr (3)	% Solid	% Water	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 3.0		Annual average (kg) 0.0		Maximum amount stored on-site (kg) 0.0	Maximum days stored 0
7. DOT shipping name ORM-B NOS		DOT hazard class ORM - E		DOT ID code 12	NA1760
8. Describe generation process.					

Notification made but waste was
never generated.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (), % weight (), PPM ()	
OH	Flash point	Reactive code	
Major and hazardous constituents. Give range of values at right.		Lower value	Upper value
a.			
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "TM", "SM", or "DM" codes from the instructions. For other handling, use "HM" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)	
1993	0	0	0	
a	Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c	Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	0	NA	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt. g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. TN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

No waste generated in this stream Notification was made for potential future use.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE	EPA identification code TNO 89-009-0004
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2. Waste name. Use standard name from regulations whenever possible.	Waste Stream number
SOLVENTS	163

3. Give the years that this waste has been generated, e.g. 1975, 1982-.	Date no longer generated. (MM/DD/YY)	Frequency of generation Continuous Accidental/ One time	(C) Various
1991-			

4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).	EPA waste codes. (Primary first; six maximum.)	SIC code for generating process.
6	F00X	2819.

5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel,	
				chlorine content (PPM)	BTU per pound
Liq-Othr (3)	0	0	8.000	0.0	0.0

6. Generation rates. Supply all rates in kilograms.		Maximum amount stored on-site	Maximum days stored
Monthly maximum (kg)	Annual average (kg)	(kg)	
2,690.0	2,690.0 1,490	2,690.0	90

7. DOT shipping name	DOT hazard class	DOT ID code
HAZARDOUS WASTE LIQUID NOS	ORM - E	12 NA9189

GENERATED FROM VARIOUS PLANT PROCESSES
AND FACILITY DECOMMISSIONING ACTIVITIES.

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM.
pH	Flash point	Reactive code	% volume (), % weight (), PPM ()

Major and hazardous constituents. Give range of values at right.	lower value	upper value
a. <i>VARIOUS HALOGENATED & NON-HALOGENATE SOLVENTS</i>	1	100
b.		
c.		
d.		
e.		

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	0	0	0

a	Total Handled Offsite	TSDR handling/Waste management methods	b	Amount Handled Onsite	TSDR handling/Waste management methods
c	Amount Handled Onsite	TSDR handling/Waste management methods	d	Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
0	28.8	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. For the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here: (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

*Significant reduction in chlorinated solvent procurement.
Less toxic solvents substituted where feasible. Ultrasonic cleaners used to replace solvent cleaning. Materials transferred to other DOE facilities.*

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)	TITLE:	DATE:
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*** 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); Corrective Action (C); Waste water Rx (W).	Status	Further Reporting
		Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. FLUORESCENT BULBS				Waste Stream number 164	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (C) Continuous _____ Accidental/ One time _____ Various _____	
1992-					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).				EPA waste codes. (Primary first; six maximum.) 0009, D008	
SIC code for generating process. 2819,					
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM) BTU per pound	
Sld:Othr (9)	100	0	8.000	0.0 0.0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg)			Annual average (kg)		Maximum amount stored on-site (kg)
2,500.0 1,000			18,819.0 14,697		2,500.0 3,000
Maximum days stored 90					
7. DOT shipping name HAZARDOUS WASTE SOLID NOS (0009 MERCURY)			DOT hazard class O R M - E		DOT ID code 12 NA9189

8. Describe generation process.

BURNED OUT OR BROKEN FLUORESCENT LIGHT BULBS
FROM PLANT FACILITIES AND EQUIPMENT.

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (), % weight (), PPM ()	
pH	Flash point	Reactive code	(X) (2)	
NA	NA	NA		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a. MERCURY			0.2	1.0
b.				
c.				
d.				
e.				

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 10,575	Amount on-site in temporary storage on the first day of year (kg) 541	Amount on-site in temporary storage on the last day of year (kg) 651
a. Total Handled <u>Offsite</u>		TSDR handling/Waste management methods	b. Amount Handled <u>Onsite</u> 10,465
			TSDR handling/Waste management methods Sol
c. Amount Handled <u>Onsite</u>		TSDR handling/Waste management methods	d. Amount Handled <u>Onsite</u>
			TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 12.6	Goal year's ratio 18.2	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (f)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here: (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Unnecessary stamping eliminated.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. INCANDESCENT BULBS				Waste Stream number 165	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1992-		Date no longer generated. (MM/DD/YY)		Frequency of generation (C) Continuous _____ Accidental/ One time _____ Various _____	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). 6		EPA waste codes. (Primary first; six maximum.) 0008, D009		SIC code for generating process. 2819.	
5. Physical form Sld:Othr (9)	% Solid 100	% Water 0	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 1,000.0 500		Annual average (kg) 2,539.0 2,535		Maximum amount stored on-site (kg) 1,000.0 1,500	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE SOLID NOS (0008 LEAD)			DOT hazard class O R M - E	DOT ID code 12	NA9189

8. Describe generation process.

BURNED OUT OR BROKEN INCANDESCENT BULBS FROM
PLANT FACILITIES AND EQUIPMENT. BULB BASES
CONTAIN LEAD-BASED SOLDER

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH NA	Flash point NA	Reactive code NA	% volume(), % weight(), PPM() XX (P)	
Major and hazardous constituents. Give range or values at right.			lower value	upper value
a. LEAD			5.0	
b.				
c.				
d.				
e.				

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	2,531	0	99

Total Handled Offsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
a		b 2,432	501

Amount Handled Onsite	TSDR handling/Waste management methods	Amount Handled Onsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
30.1	24.5	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (f)
c. Equipment/technology modification (c)	h. Other - briefly explain here (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Unnecessary relamping eliminated.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)

TITLE:

DATE:

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

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); Corrective Action (C); Waste water Rx (W).

Status	Further Reporting
	Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TNO 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. DECANT WATER PHMP				Waste Stream number 166	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ Various One time	
1992-					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).				EPA waste codes. (Primary first; six maximum.) F006	
				SIC code for generating process. 2819.	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM)	BTU per pound
Liq-Watr (2)	0	100	8.000	0.0	0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg)			Annual average (kg)	Maximum amount stored on-site (kg)	Maximum days stored
20 10			20 64	40 120	90
7. DOT shipping name HAZARDOUS WASTE LIQUID NOS (F006)				DOT hazard class ORM - E	DOT ID code 12 NA9189
8. Describe generation process. K-1407-B,C POND SLUDGE.					

TREATMENT OF K-1407-B,C POND SLUDGE RESULTED
IN GENERATION OF DECANT WATER.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM() (V)	
pH	Flash point	Reactive code	
	NA	NA	
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.	POTASSIUM HYDROXIDE	50	90
b.	NICKEL HYDROXIDE	5	10
c.	URANIUM	0	1
d.	WATER	0	10
e.			

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

Date: 02/94

1. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report year 1993	Amount generated during year (kg) 6	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0	
a. Total Handled OFFsite		TSDR handling/Waste management methods	b. Amount Handled ONsite 6	TSDR handling/Waste management methods Sol
Amount Handled ONsite		TSDR handling/Waste management methods	d. Amount Handled ONsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

2. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 0.7	Goal year's ratio 11.7	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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3. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

4. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here: i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. TN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

5. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generation dependent on project activity.
Activity was significantly scaled back this year.

6. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE		EPA identification code TNO 89-009-0004			
2. Waste name. Use standard name from regulations whenever possible. SLUDGES PUMP DECANT SOLIDS PUMP		Waste Stream number 167			
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1992-		Date no longer generated. (MM/DD/YY)	Frequency of generation (V) Continuous Accidental/ Various One time		
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).		EPA waste codes. (Primary first; six maximum.) F006	SIC code for generating process. 2819.		
5. Physical form Sldg-Watr (5)	% Solid 50	% Water 50	Vol. to wt. conversion (pounds/gallon) 11.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 67.0		Annual average (kg) 67.0 34	Maximum amount stored on-site (kg) 67.0	Maximum days stored 90	
7. DOT shipping name HAZARDOUS WASTE LIQUID NOS (F006)		DOT hazard class O R M - E		12	DOT ID code N49189
8. Describe generation process. POND SLUDGE.					

TREATMENT OF K-1407-B,C POND
SLUDGE RESULTED IN GENERATION
OF WASTE SOLIDS.

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH	Flash point	Reactive code	% volume(), % weight(), PPM()
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a.	POTASSIUM HYDROXIDE	50	90
b.	NICKEL HYDROXIDE	5	10
c.	URANIUM	0	1
d.	WATER	0	10
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)	
1993	0	0	0	
a	Total Handled OFFsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
c	Amount Handled ONsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio Goal year's ratio Goal Year If no numeric goal has been set, describe your efforts to set one in line 15 below.

0

6.5

1995

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance.....a(No NA Yes)	g. High costs of haz. waste mgt....g(No NA Yes)
b. Technical feasibility.....b(No NA Yes)	h. Accidental generation.....h(No NA Yes)
c. Economic practicality.....c(No NA Yes)	i. Other - describe here:.....i(No NA Yes)
d. Measurement/accounting methods.....d(No NA Yes)	
e. TN hazardous waste regulations.....e(No NA Yes)	
f. Implementation experience.....f(No NA Yes)	

15. Narrative: provide additional explanation or any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generation is dependent on project activity.

Activity was significantly scaled-back this year.

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)

TITLE:

DATE:

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

7. 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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting
	Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

Please complete and/or correct, certify and return regardless. Retain a copy for your records.

1. Organization's full name at facility. UNITED STATES DEPT. OF ENERGY K-25 SITE				EPA identification code TN0 89-009-0004	
2. Waste name. Use standard name from regulations whenever possible. SECONDARY/TERTIARY WASTE PHMP TERTIARY				Waste Stream number 168	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1992-		Date no longer generated. (MM/DD/YY)		Frequency of generation (V) Continuous Accidental/ One time Various	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).		EPA waste codes. (Primary first; six maximum.) F006		SIC code for generating process. 2819	
5. Physical form Sld:Othr (9)	% Solid 100	% Water 0	Vol. to wt. conversion (pounds/gallon) 8.000	If used for fuel, chlorine content (PPM) 0.0	BTU per pound 0.0
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 1,096.0 4,500		Annual average (kg) 1,096.0 24,761		Maximum amount stored on-site (kg) 1,096.0 13,500	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE SOLID NOS (F006)			DOT hazard class O R M - E	DOT ID code 12	HA9189

8. Describe generation process.

POND SLUDGE THIS IS A MIXTURE WASTE FROM POND WASTE PROCESSING OPERATIONS (REFERENCE WASTE STREAM #126).

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM()	
pH	Flash point	Reactive code	
Major and hazardous constituents. Give range or values at right.		lower value	upper value
a.	NICKEL HYDROXIDE		
b.	URANIUM		
c.			
d.			
e.			

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	52,426	6,187	0

Total Handled OFFsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
a		58,613	501

Amount Handled ONsite	TSDR handling/Waste management methods	Amount Handled ONsite	TSDR handling/Waste management methods
c		d	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
624.0	10.6	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (fX)
c. Equipment/technology modification (c)	h. Other - briefly explain here (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. TN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste generated from processing of "pond waste."

16. Certification: I certify that the information given on this form is true, accurate and complete.

SIGNATURE: (Generator or authorized representative)

TITLE:

DATE:

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

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); Corrective Action (C); Waste water Rx (W).	Status: Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

1. Organization's full name at facility. UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE				EPA identification code TN0 99 009 0004	
2. Waste name. Use standard name from regulations whenever possible. MERCURY VAPOR BULBS				Waste Stream number 169	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1993-		Date no longer generated. (MM/DD/YY)		Frequency of generation <u>Continuous</u> Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (9).				EPA waste codes. (Primary first; six maximum.) D008, D009	
5. Physical form OTHER SOLID				% Solid 100	% Water 0
Vol. to wt. conversion (pounds/gallon) 8.0				If used for fuel, chlorine content (PPM) 0	
BTU per pound 0					
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 44		Annual average (kg) 44		Maximum amount stored on-site (kg) 44	
Maximum days stored 90					
7. DOT shipping name HAZARDOUS WASTE SOLID N.O.S.				DOT hazard class CLASS 9	
				DOT ID code III NA 3077	
8. Describe generation process. WASTE LIGHT BULBS FROM PLANT FACILITIES.					

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM(X)	
pH NA	Flash point NA	Reactive code NA		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a. MERCURY			0.5	
b. LEAD			5.0	
c.				
d.				
e.				

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 43	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0
a. Total Handled OFFsite		TSDR handling/Waste management methods	
b. Amount Handled ONsite 43		TSDR handling/Waste management methods S01	
c. Amount Handled ONsite		TSDR handling/Waste management methods	
d. Amount Handled ONsite		TSDR handling/Waste management methods	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 512	Goal year's ratio 38.4	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance (a)	g. High costs of haz. waste mgt. (g)
b. Technical feasibility (b)	h. Accidental generation (h)
c. Economic practicality (c)	i. Other - describe here: (i)
d. Measurement/accounting methods (d)	
e. TN hazardous waste regulations (e)	
f. Implementation experience (f)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Unnecessary relamping being eliminated.

16. Certification: I certify that the information given on this form 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? Yes No	Test results? Yes No	Reasonable? Yes No	Follow up Yes No	Initials
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); Corrective Action (C); Waste water Rx (W).					Status Further Reporting Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

1. Organization's full name at facility. <u>UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE</u>				EPA identification code <u>TNO 89 009 0004</u>	
2. Waste name. Use standard name from regulations whenever possible. <u>PCB AUTO-SAMPLE VIALS</u>				Waste Stream number <u>170</u>	
3. Give the years that this waste has been generated, e.g. 1975, 1982-.		Date no longer generated. (MM/DD/YY)		Frequency of generation <u>Continuous</u> Accidental/ Various One time	
<u>1993-</u>					
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g).				EPA waste codes. (Primary first; six maximum.) <u>FOMX, UOMX</u>	
				SIC code for generating process. <u>2819</u>	
5. Physical form	% Solid	% Water	Vol. to wt. conversion (pounds/gallon)	If used for fuel, chlorine content (PPM) BTU per pound	
<u>OTHER SOLID</u>	<u>100</u>	<u>0</u>	<u>8</u>	<u>0</u>	<u>0</u>
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg)		Annual average (kg)		Maximum amount stored on-site (kg)	Maximum days stored
<u>57</u>		<u>57</u>		<u>57</u>	<u>90</u>
7. DOT shipping name <u>HAZARDOUS WASTE SOLID N.O.S.</u>				DOT hazard class <u>CLASS 9</u>	DOT ID code <u>III NA 3077</u>
8. Describe generation process.					

WASTE VIALS FROM AUTOMATED SAMPLER EQUIPMENT.
VIALS ARE POTENTIALLY CONTAMINATED WITH LISTED HAZARDOUS
WASTE AND PCBs.

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume (X), % weight (), PPM ()	
pH <u>NA</u>	Flash point <u>NA</u>	Reactive code <u>NA</u>		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a. <u>GLASS</u>			<u>99</u>	
b. <u>LISTED HAZARDOUS WASTE</u>				<u>1</u>
c.				
d.				
e.				

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

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report year 1993	Amount generated during year (kg) 115	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0
a. Total Handled <u>Offsite</u>		TSDR handling/Waste management methods	
b. Amount Handled <u>Onsite</u> 115		TSDR handling/Waste management methods SOI	
c. Amount Handled <u>Onsite</u>		TSDR handling/Waste management methods	
d. Amount Handled <u>Onsite</u>		TSDR handling/Waste management methods	

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 115.0	Goal year's ratio 102.7	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (fX)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance.....a(No <u>NA</u> Yes)	g. High costs of haz. waste mgt....g(No <u>NA</u> Yes)
b. Technical feasibility.....b(No <u>NA</u> Yes)	h. Accidental generation.....h(No <u>NA</u> Yes)
c. Economic practicality.....c(No <u>NA</u> Yes)	i. Other - describe here:.....i(No <u>NA</u> Yes)
d. Measurement/accounting methods.....d(No <u>NA</u> Yes)	
e. TN hazardous waste regulations.....e(No <u>NA</u> Yes)	
f. Implementation experience.....f(No <u>NA</u> Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

First year generation.

16. Certification: I certify that the information given on this form 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? Yes No	Test results? Yes No	Reasonable? Yes No	Follow up Yes No	Initials
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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); Corrective Action (C); Waste water Rx (W).

Status	Further Reporting
	Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

1. Organization's full name at facility. <u>UNITED STATES DEPARTMENT OF ENERGY, Y-25 SITE</u>		EPA identification code <u>TNU 99 009 0004</u>			
2. Waste name. Use standard name from regulations whenever possible. <u>TSCA INC. RINSE RESIDUES</u>		Waste Stream number <u>171</u>			
3. Give the years that this waste has been generated, e.g. 1975, 1982-. <u>1993-</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), TCLP (g). <u>(f)</u> , <u>(g)</u>		EPA waste codes. (Primary first; six maximum.) <u>F00X, D00X, P00X, U00X</u>	SIC code for generating process. <u>2819</u>		
5. Physical form <u>LIQUID, WATER BASED</u>	% Solid <u>0</u>	% Water <u>100</u>	Vol. to wt. conversion (pounds/gallon) <u>8</u>	If used for fuel, chlorine content (PPM) <u>0</u>	BTU per pound <u>0</u>
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) <u>69,083.0</u>		Annual average (kg) <u>69,083.0</u>		Maximum amount stored on-site (kg) <u>69,083.0</u>	Maximum days stored <u>90</u>
7. DOT shipping name <u>HAZARDOUS WASTE LIQUID N.O.S.</u>		DOT hazard class <u>CLASS 9</u>		DOT ID code <u>III</u> <u>NA 3082</u>	
8. Describe generation process.					

RINSE WATER RESIDUES FROM TSCA INCINERATOR. WATER
CONTAMINATED WITH LISTED HAZARDOUS WASTE

9. Chemical Characteristics.		Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(X), % weight(), PPM()	
pH <u>7</u>	Flash point <u>>140 F</u>	Reactive code <u>NA</u>	
Major and hazardous constituents. Give range of values at right.		lower value	upper value
a. <u>WATER</u>			<u>100</u>
b.			
c.			
d.			
e.			
10. If this waste is recovered, reclaimed, recycled or reused, describe how.			

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year	Amount generated during year (kg)	Amount on-site in temporary storage on the first day of year (kg)	Amount on-site in temporary storage on the last day of year (kg)
1993	69,083	0	0

a	Total Handled OFFsite	TSDR handling/Waste management methods	b	Amount Handled ONSite	TSDR handling/Waste management methods
				69,083	T07
c	Amount Handled ONSite	TSDR handling/Waste management methods	d	Amount Handled ONSite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio	Goal year's ratio	Goal Year	If no numeric goal has been set, describe your efforts to set one in line 15 below.
152.2	114.2	1995	

13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (f)
b. In process recycling (b)	g. No effort (g)
c. Equipment/technology modification (c)	h. Other - briefly explain here (h)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance.....a(No <u>NA</u> Yes)	g. High costs of haz. waste mgt....g(No <u>NA</u> Yes)
b. Technical feasibility.....b(No <u>NA</u> Yes)	h. Accidental generation.....h(No <u>NA</u> Yes)
c. Economic practicality.....c(No <u>NA</u> Yes)	i. Other - describe here:.....i(No <u>NA</u> Yes)
d. Measurement/accounting methods.....d(No <u>NA</u> Yes)	
e. TN hazardous waste regulations.....e(No <u>NA</u> Yes)	
f. Implementation experience.....f(No <u>NA</u> Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

First year generation

16. Certification: I certify that the information given on this form 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? Yes No	Test results? Yes No	Reasonable? Yes No	Follow up Yes No	Initials

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); Corrective Action (C); Waste water Rx (W).	Status Further Reporting Y N
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18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

1. Organization's full name at facility. <u>UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE</u>				EPA identification code <u>TND 99 009 0004</u>	
2. Waste name. Use standard name from regulations whenever possible. <u>SODIUM VAPOR-FILLED BULBS</u>				Waste Stream number <u>172</u>	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. <u>1993-</u>		Date no longer generated. (MM/DD/YY)		Frequency of generation <u>Continuous</u> Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive <u>(d)</u> , Other toxic (f), TCLP <u>(g)</u>				EPA waste codes. (Primary first; six maximum.) <u>D003, D008</u>	
5. Physical form <u>OTHER SOLID</u>		% Solid <u>100</u>	% Water <u>0</u>	Vol. to wt. conversion (pounds/gallon) <u>8</u>	If used for fuel, chlorine content (PPM) <u>0</u> BTU per pound <u>0</u>
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) <u>5</u>		Annual average (kg) <u>5</u>		Maximum amount stored on-site (kg) <u>5</u>	Maximum days stored <u>90</u>
7. DOT shipping name <u>HAZARDOUS WASTE SOLID N.O.S.</u>				DOT hazard class <u>CLASS 9</u>	DOT ID code <u>III NA 3077</u>
8. Describe generation process.					

WASTE LIGHT BULBS FROM PLANT FACILITIES

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM. % volume(), % weight(), PPM(X)	
pH <u>NA</u>	Flash point <u>NA</u>	Reactive code <u>9</u>		
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a. <u>LEAD</u>			<u>5.0</u>	
b.				
c.				
d.				
e.				
10. If this waste is recovered, reclaimed, recycled or reused, describe how.				

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 5	Amount on-site in temporary storage on the first day of year (kg) 0	Amount on-site in temporary storage on the last day of year (kg) 0		
a	Total Handled Offsite	TSDR handling/Waste management methods	b	Amount Handled Onsite 5	TSDR handling/Waste management methods SOL
c	Amount Handled Onsite	TSDR handling/Waste management methods	d	Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 59.5	Goal year's ratio 44.6	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (f)
c. Equipment/technology modification (c)	h. Other - briefly explain here. (g)
d. Substituting raw materials (d)	
e. Improved operations (e X)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here: i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. FN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Unnecessary relamping being eliminated.

16. Certification: I certify that the information given on this form 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); Corrective Action (C); Waste water Rx (W).	Status	Further Reporting
		Y N

18. Comments.

Date: 02/94

Hazardous Waste Stream Report

Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
Fifth Floor, L & C Tower, 401 Church Street, Nashville, TN 37243-1535

1. Organization's full name at facility. UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE				EPA identification code TND 89 009 0004	
2. Waste name. Use standard name from regulations whenever possible. PHOTO WASTE (K-1035)				Waste Stream number 173	
3. Give the years that this waste has been generated, e.g. 1975, 1982-. 1993-		Date no longer generated. (MM/DD/YY)		Frequency of generation Continuous Accidental/ Various One time	
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f), TCLP (g). (g)		EPA waste codes. (Primary first; six maximum.) D011		SIC code for generating process. 2819	
5. Physical form LIQUID, WATER BASED	% Solid 0	% Water 100	Vol. to wt. conversion (pounds/gallon) 8	If used for fuel, chlorine content (PPM) BTU per pound 0 0	
6. Generation rates. Supply all rates in kilograms. Monthly maximum (kg) 255		Annual average (kg) 255		Maximum amount stored on-site (kg) 273	Maximum days stored 90
7. DOT shipping name HAZARDOUS WASTE LIQUID N.O.S.			DOT hazard class CLASS 9	DOT ID code III NA 3082	
8. Describe generation process.					

PHOTOGRAPHIC PROCESSING CONDUCTED AT K-1035.

9. Chemical Characteristics.			Concentration units. For EP toxic and TCLP wastes, use PPM.	
pH 7.0	Flash point NA	Reactive code NA	% volume(), % weight(), PPM(x)	
Major and hazardous constituents. Give range of values at right.			lower value	upper value
a. SILVER			5.0	
b.				
c.				
d.				
e.				

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

The waste is processed through a filter system to remove the silver for recycle.

Date: 02/94

11. Annual Generation and Handling Data: If the waste was shipped off-site, summarize in block (a) and submit an Off-site Shipping Report. Report onsite handling in blocks (b) - (d). For offsite or onsite handling that requires interim status or a permit, use "T", "S", or "D" codes from the instructions. For other handling, use "H" codes.

Report Year 1993	Amount generated during year (kg) 255	Amount on-site in temporary storage on the first day of year (kg) 273	Amount on-site in temporary storage on the last day of year (kg) 0	
a. Total Handled Offsite		TSDR handling/Waste management methods	b. Amount Handled Onsite 528	TSDR handling/Waste management methods H09, H06
c. Amount Handled Onsite		TSDR handling/Waste management methods	d. Amount Handled Onsite	TSDR handling/Waste management methods

Hazardous Waste Reduction Data: Large Quantity Generators (LQGs) in 1989 are required to answer questions 12-15. Generators not in operation in 1989 have a different schedule for required reporting; see the instructions. Small quantity generators (SQGs) in 1989 are not required to answer questions 12-15 until the report due for calendar year 1994. However, we urge SQGs to answer them as it should help later when answers are required.

12. Specify your actual hazardous waste generation and final reduction goal as ratios of hazardous waste generated to the item, service or intermediary produced in its standard production units. See instructions for further details.

This year's actual ratio 30.4	Goal year's ratio 22.8	Goal Year 1995	If no numeric goal has been set, describe your efforts to set one in line 15 below.
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13. Check the efforts undertaken to reduce the volume and/or toxicity in the generation of this waste during the reported year. This includes the efforts undertaken in previous years that affected the reported year. The reduction effort relates to generation processes and not treatment methods.

a. Reformulation/redesign of product (a)	f. Reduction research/planning (r)
b. In process recycling (b)	g. No effort (f)
c. Equipment/technology modification (cX)	h. Other - briefly explain here (g)
d. Substituting raw materials (d)	
e. Improved operations (e)	

14. Rate the helpfulness of the items below that affected your hazardous waste reduction plan and its results. To the right of each item, circle one code: YES, this item helped reduction; NO, it hurt reduction; or NA, it was not necessary or did not affect reduction. See the instructions for further explanation.

a. Training or technical assistance a(No NA Yes)	g. High costs of haz. waste mgt g(No NA Yes)
b. Technical feasibility b(No NA Yes)	h. Accidental generation h(No NA Yes)
c. Economic practicality c(No NA Yes)	i. Other - describe here i(No NA Yes)
d. Measurement/accounting methods d(No NA Yes)	
e. TN hazardous waste regulations e(No NA Yes)	
f. Implementation experience f(No NA Yes)	

15. Narrative: provide additional explanation of any of the above data that will show your efforts to reduce the generation of this hazardous waste or describe impediments to its reduction.

Waste being processed to recover silver.

16. Certification: I certify that the information given on this form 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? Yes No	Test results? Yes No	Reasonable? Yes No	Follow up Yes No	Initials
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); Corrective Action (C); Waste water Rx (W).					Status Further Reporting Y N

18. Comments.

Date: 02/94

NEW WASTE STREAMS IDENTIFIED IN 1993		
Waste Stream Number	Treatment, Storage and Disposal Methods	Transporters, TSDR Operators and Recyclers
169 Mercury Vapor Bulbs	Storage (S01)	TN0 89 009 0004 United States Department of Energy K-25 Site P.O. Box 2003 Oak Ridge, TN 37831-7134
170 PCB Auto-Sample Vials	Storage (S01)	
171 TSCA Incinerator Rinse Residues	Treatment (T07)	
172 Sodium Vapor-Filled Bulbs	Storage (S01)	
173 Photo Waste (K-1035)	Resource Recovery (H09) Waste Water Treatment Unit (H06)	

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10/31 /94

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