1336

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K/HS-344
Copy No. _____

K-25

OAK RIDGE
K-25 SITE

MARTIN MARIETTA

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

FEBRUARY 1991

This document has been approved for release to the public by: 2/91

Technical Information Officer 4/3/95
Oak Ridge K-25 Site Date

ChemRisk Document No. 1336

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

Date: 02/91

K/HS-344

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

ASSIGNED TO: _____

COPY NO.: _____

NOTICE TO RECIPIENT

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 If new or revised pages are issued, you are responsible for inserting the new pages and destruction of superseded pages.

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

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

Date: 02/91 K/HS-344

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

EPA ID No. TNO 89 009 0004

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

CERTIFICATION

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

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

L. E. Hall Date 2-27-91

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

Date: 02/91

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Date: 02/91

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

Date: 02/91

Hazardous Waste Notification DEC 13, 1990

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

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

2. Mailing address
PO BOX 2003
City
OAKRIDGE
State Zip
TN 37831~~7468~~ 134

3. Physical location or address
TENNESSEE STATE RT 58 AT BLAIR RD
County name
ROANE

Latitude 35.5608
Longitude 84.2338

4. Owner name
UNITED STATES DEPARTMENT OF ENERGY
Phone
(615) 576-~~0845~~ 0732

5. Manager or operator name
UNITED STATES DEPARTMENT OF ENERGY (Operator)
Martin Marietta Energy Systems, Inc. (Co-operator)
Phone
(615) 576-~~0845~~ 0732
(615) 576-5997

6. Principal technical contact
~~MARIANNA HIESKELLE~~ L.E. Hall
Phone
(615) 576-~~0314~~ 5997

7. Number of employees
~~3,300~~ 3,149
Year began
1943
SIC codes
2819, , ,
Job shop
NO

8. Emergency contacts

Name	Time period covered	Phone
A DOE SECURITY OPERATIONS CENTER	24 HOURS	(615)576-1004
B K-25 PLANT SHIFT SUPERINTENDENT	24 HOURS	(615)574-3282

9. Current environmental permits for air, water, and radiol
Give permit type, number and expiration date. In a range of related permits, summarize by giving the first and last permit number.
SEE ATTACHMENT #1

10. Check hazardous waste fuel burning activities below.
Fuel blending or marketing a( ) Fuel burning. . . . c( )
Transporting fuel . . . b( )

11. I certify that this information is true, accurate and complete.
Signature of authorized representative, title, date

Below is for Department use only.

12. Date rcvd | County | Priority | Generator Yes No | Small Gen. Yes No | Special status

13. Date closed /00/00 | Date regulated 1/01/84 | Date deregulated /00/00 | Insp. Freq. A

14. Comments

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

Date: 02/91

1991 Hazardous Waste Generator Maintenance Fees

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

Instructions

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

1.1 If you shipped hazardous waste offsite in calendar year 1990, enter the total amount in kilograms. 5,000 kg

1.2 Enter the amount of hazardous waste shipped off site in 1990 that was completely excluded under Rule 1200-1-11- 02(1)(d)3(ii), e.g. fly ash, drilling fluids, and cement kiln dusts. Enter the amount in kilograms. 0 kg

1.3 Subtract line 1.2 from line 1.1 and enter the difference. 5,000 kg

1.4 Enter the number of months in 1990 that you generated 100 kilograms or more but less than 1,000 kilograms of hazardous waste. 0

1.5. Enter the number of times you accumulated 1,000 kilograms or more of hazardous waste in 1990 before shipping off site. 262

1.6 Enter the number of times you generated or accumulated one or more kilograms of acutely hazardous waste in 1990. See Rule 1200-1-11-.02(4)(d)5. 3

1.7 Enter the number of months in 1990 that you generated 1,000 kilograms or more of hazardous waste. 12

1.8 Add lines 1.4 through 1.7 and enter the sum disregarding the units of measurement. 277

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

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

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

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

Return the certified form even if no fees are due.

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

Please complete and return the original to the above address.

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

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

2. Certify that the information given above is true, accurate and complete.

Signature of owner, manager or authorized representative.	Title	Date

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

PH 2128A. (SWM Rev.12-90

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

1990 Offsite Shipping Report

(For wastes shipped off site only.)

Date: 02/91

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

Please complete and return this form to following address:

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

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

2 Waste streams or "FS"	Dot Shipping Name / Waste name	EPA Waste codes	Amount shipped in kilograms	Number of shipments	TSDR/Destination Facility EPA ID number	Transporter EPA ID number	TSDR Handling codes
a 35, FS	Waste Flammable Liquid, NOS/Flammable Liquids (Lab Packs)	D001, U213	700	1	LAD010395127	LAD981059017	T07
b. 36, FS	Waste Corrosive Liquid, NOS/Corrosive Liquids (Lab Packs)	D002, D006, U134	485	1	LAD010395127	LAD981059017	T07
c 37, FS	Waste Corrosive Solids, NOS/Corrosive Solids (Lab Packs)	D002, D003	7	1	LAD010395127	LAD981059017	T07
d 38, FS	Waste Poisonous Liquid, NOS/Poisonous Liquids (Lab Packs)	D004	6	1	LAD010395127	LAD981059017	T07, T39, D81
e 39, FS	Waste Poisonous Solids, NOS/Poisonous Solids (Lab Packs)	D004	6	1	LAD010395127	LAD981059017	T07, T39, D81
f 40, FS	Waste Oxidizer, NOS/ Oxidizing Substances (Liquids)	D001	25	1	LAD010395127	LAD981059017	T07, T39, D81
g. FS (42)	Waste Hazardous Substance NOS/Waste Oils and Waste Oils Contaminated with PCBs &/or Solvents	F001, F002, F003, D001, DOMX	854	1	LAD010395127	LAD981059017	T06
h FS (60)	Hazardous Waste Liquid, NOS/Hazardous Waste Liquid	F001, F002, F003, DOMX	145	1	LAD010395127	LAD981059017	T06
i 75, FS	Waste Organic Peroxide, Liquid, NOS/Benzoyl Peroxide and Organic Peroxides	D001	6	1	LAD010395127	LAD981059017	T07

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

PH-2118B
Rev. 12-90

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

1990 Detail Report for TSDR Facilities

(For wastes received from off-site only.)

Date: 02/91

EPA ID: TN0 89-009-0004

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

Please complete and return this form to following address:

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

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

2. Dot Shipping Name / Waste name	EPA Waste codes	Amount shipped in kilograms	Number of shipments	Generator EPA ID number	Transporter EPA ID number	TSDR Handling codes
a. Hazardous Waste Solid, NOS, ORM-E / Y4	F006	168,450	12	TN3 89 009 0001	TN3 89009 0001	S01
b. Hazardous Waste Solid, NOS, ORM-E / Y5	F006, D007	14,789	1	TN3 89009 0001	TN3 89009 0001	S01
c. Waste Acetonitrile, Flammable Liquid / Y10	D001	12,045	2	TN3 89009 0001	TN3 89009 0001	S02
d. Waste Mercury Metallic, ORM-B / Y18	D009	239,093	15	TN3 89009 0001	TN3 89009 0001	S01
e. Hazardous Waste Solid, NOS, ORM-E / Y20	F002	1,391	1	TN3 89009 0001	TN3 89009 0001	S01
f. Waste Radioactive Material, NOS, Radioactive Material / R1	D008	5,285	1	OHD980683544	NYD980769947	S02
g. Waste Radioactive Material, NOS, Radioactive Material / R2	F001	1,245	1	OHD980683544	NYD980769947	S02
h.						
i.						

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

PH 2118a, (SWM 10/90 Rev.)

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

1990 Summary Report for TSDR Facilities

(For all permitted or interim status facilities)

Date: 02/91

EPA ID: TN0 89-009-0004

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

Please complete and return this form to following address:

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

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

2. Dot Shipping Name / Waste name	EPA Waste codes	Amount Onsite Begin of Year (kg)	Amount Received (kg)	Amount Treat/ Disposed/Ship (kg)	Amount Onsite End of Year (kg)	Treatment/Disposed Handling Codes
a. / K-1420 Nitric Acid (6)	D002	0	8,850	0	8,850	
b. Hazardous Waste Liquid, NOS/ Electroless Nickel Solution (8)	F006, D002, D007, D009	830	0	0	830	
c. Waste Corrosive Liquid, NOS/ K-1501 Hydrogen Softener Blowdown (12)	D002	0	8,420,000	8,420,000	0	T31, T23
d. Waste Sodium Hydroxide Solution/ Sodium Hydroxide Solution (18)	D002	20	0	0	20	
e. Waste Corrosive Liquid, NOS/ K-1401 Diversey (26)	D002, D006, D007	387	0	0	387	
f. Waste Flammable Liquid, NOS/ Flammable Liquids (Lab Packs) (35)	D0MX, F0MX, U0MX	219	261	237	243	Shipped
g. Waste Corrosive Liquid, NOS/ Corrosive Liquids (Lab Packs) (36)	U134, D0MX	408	486	365	529	Shipped
h. Waste Corrosive Solids, NOS/ Corrosive Solids (Lab Packs) (37)	D002, D003, D006, D008	2	1	2	1	Shipped
i. Waste Poisonous Liquid, NOS/ Poisonous Liquids (Lab Packs) (38)	U0MX, P0MX, D0MX	1	0	1	0	Shipped

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

PH-3194, (SWM 10/90)

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

Date: 02/91

Hazardous Waste Stream Report - Front DEC 13, 1990

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

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

2. Waste name.
K-1420 NITRIC ACID | Waste stream ID 6

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

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES: BC | D002D008 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, WATER BASED | .0 | | 12.000 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stored
8,850 ~~10,000~~ 2,950 ~~10,000~~ 8,850 90

7. DOT shipping name | DOT hazard class | DOT ID code
NOT TRANSPORTED OFF-SITE. # O R M - E #

8. Describe generation process.
WASTE GENERATED FROM ELECTROLESS PLATING OPERATIONS.^THIS IS A MIXED WASTE.^

** ANNUAL REPORT SECTION ** LINES 9-11

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

	Amount Handled by site		TSDF handling/Waste management methods
A	OFFSITE.	N	
B	ONSITE: 8,850 kg	Y	S01
C	ONSITE:	Y	
D	ONSITE:	Y	

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

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

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

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