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1337

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K/HS-306
Revision 1A

ORGDP

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OAK RIDGE GASEOUS DIFFUSION PLANT

MARTIN MARIETTA

1989 ANNUAL REPORT OF HAZARDOUS WASTE ACTIVITIES FOR THE OAK RIDGE GASEOUS DIFFUSION PLANT

This document has been approved for release to the public by: — 7/90

Arvin S. Quist 4/3/95
Technical Information Officer Date
Oak Ridge K-25 Site

August 1990

ChemRisk Document No. 1337

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

K/HS-306
Revision 1A

1989 ANNUAL REPORT OF HAZARDOUS WASTE ACTIVITIES FOR THE OAK RIDGE GASEOUS DIFFUSION PLANT

ASSIGNED TO: _____

COPY No.: _____

NOTICE TO RECIPIENT

You are charged with responsibility for this copy of K/HS-306, Revision 1A, entitled 1989 Annual Report of Hazardous Waste Activities for the Oak Ridge Gaseous Diffusion Plant. If new or revised pages are issued, you are responsible for inserting the new pages and destruction of superseded pages.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 Gaseous Diffusion Plant
Post Office Box 2003
Building K-303-8, MS 7308
Oak Ridge, Tennessee 37831-7308

1989 ANNUAL REPORT OF HAZARDOUS WASTE ACTIVITIES FOR THE OAK RIDGE GASEOUS DIFFUSION PLANT

Change Control Sheet

Revision Number	Affected Pages	Date
1A	All	08/90
1B	A-7	09/90
2	C-1, C-2, C-3, C-4	09/18/90

1989 ANNUAL REPORT OF HAZARDOUS WASTE ACTIVITIES FOR THE OAK RIDGE GASEOUS DIFFUSION PLANT

EPA ID No. TNO 89 009 0004

Prepared by the
Oak Ridge Gaseous Diffusion Plant
Post Office Box 2003
Oak Ridge, Tennessee 37831
operated by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U.S. DEPARTMENT OF ENERGY
under contract DE-AC05-84OR21400

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APPENDIX

Date: 08/90
Revision No.: 1A

Hazardous Waste Notification JAN 05, 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
OAK RIDGE
State Zip
TN 37831

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

Latitude ~~35.5500~~ 35°56'08"
Longitude ~~84.2500~~ 84°23'38"

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

5. Manager or operator name
UNITED STATES DEPARTMENT OF ENERGY
Phone
(615) 576-0845

6. Principal technical contact
~~M C SMITH~~ Marianne M. Heiskell
Phone
~~(615) 576-0978~~ (615) 576-0314

7. Number of employees: ~~2,500~~ 3,300
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
M. M. Heiskell MARIANNE M. HEISKELL, K-25 SITE MANAGER SEP 12 1990

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

EPA ID Code: TN0 89-009-0004

Air - TDHE Permit No.	Expiration Date
012469P	None
012478P	None
012483P	None
012488P	None
012503P	None
012504P	None
012505P	None
012506P	None
012508P	None
012659P	None
012660P	None
012661P	None
015097P	None
015098P	None
015099P	None
015100P	None
015101P	None
015596P	None
015690P	None
015702P	None
015703P	None

United States Department of Energy, K-25 Site

Hazardous Waste Maintenance Fees

Date: 08/90
Revision No.: 1A

1990 Hazardous Waste Generator Maintenance Fees

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

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 1989, enter the total amount in kilograms. 19017 kg

1.2 Enter the amount of hazardous waste shipped off site in 1989 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. 19017 kg

1.4 Enter the number of months in 1989 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 1989 before shipping off site. 3

1.6 Enter the number of times you generated or accumulated one or more kilograms of acutely hazardous waste in 1989. See Rule 1200-1-11-.02(4)(d)5. 3

1.7 Enter the number of months in 1989 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. 18

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

Marianne M. Heiskell
K-25 Site Office
Department of Energy, Oak Ridge Operations
P.O. Box 2003, Oak Ridge, TN 37831-7468

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: M. M. Heiskell
Title: MARIANNE M. HEISKELL, K-25 SITE MANAGER
Date: SEP 12 1990

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

PH 2128A. (SW 12/89 Rev.)

United States Department of Energy, K-25 Site

1989 Offsite Shipping Report

1989 Offsite Shipping Report

(For wastes shipped off-site only.)

Page 1 of 3

EPA ID CODE TNO 89-009-0004 Y-Y-Y
UNITED STATES DEPT. OF ENERGY K-25 SITE

Marianne M. Heiskell
K-25 Site Office
Department of Energy, Oak Ridge Operations
P.O. Box 2003, Oak Ridge, TN 37831-7468

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 37219-5403

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. 18	Waste Sodium Hydroxide Solution /Sodium Hydroxide Solution	D002	135	1	LAD 010395127	LAD 981059017	T31, D80
b. 20	Waste Flammable Solid, NOS /Sodium Metal	D001, D003	44	1	LAD 010395127	LAD 981059017	T07, D80
c. 35	Waste Flammable Liquid, NOS /Flammable Liquids	D001, U165	1,806	2	LAD 010395127	LAD 981059017	T07, D80
d. 35	Waste Flammable Liquid, NOS/Flammable Liquids	D001	289	1	GAD 000222089	OKD 981586605	T07, D80
e. 36	Waste Corrosive Liquid, NOS/Corrosive Liquids	D002, D007	1,383	2	LAD 010395127	LAD 981059017	T31, T21, D80
f. 36	Waste Corrosive Liquid, NOS / Corrosive Liquids	D002	2,659	1	GAD 000222089	OKD 981586605	T31, D80
g. 37	Waste Corrosive Solids, NOS/Corrosive Solids	D002, D003	110	1	LAD 010395127	LAD 981059017	T07, D80
h. 37	Waste Corrosive Solids, NOS /Corrosive Solids	D002	132	1	LAD 010395127	LAD 981059017	T31, D80
i. 38	Waste Poison B Liquid, NOS/Poisonous Liquids	U223, U101, P015	39	1	LAD 010395127	LAD 981059017	T07, D80

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

M. M. Heiskell

MARIANNE M. HEISKELL, K-25 SITE MANAGER

SEP 12 1990

FH 2118b, (SWM 12/89 Rev.)

United States Department of Energy, K-25 Site

1989 Detail Report for TSDR Facilities

1989 Detail Report for TSDR Facilities

(For wastes received from off-site only.)

EPA ID CODE TNO 89-009-0004 Y-Y-Y
UNITED STATES DEPT. OF ENERGY K-25 SITE

Marianne M. Heiskell
K-25 Site Office
Department of Energy, Oak Ridge Operations
P.O. Box 2003, Oak Ridge, TN 37831-7468

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 37219-5403

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, Radioactive Material / Y1	D007	49,466	11	TN3 890090001	TN3 890090001	S01
b. Hazardous Waste Solid, NOS, ORM-E / Y2	F001	1,145	1	TN3 890090001	TN3 890090001	S01
c. Waste Tetrachloroethylene, ORM-A / Y3	F001	13,625	1	TN3 890090001	TNO 890090004	S02
d. Hazardous Waste Solid, NOS, Radioactive Material / Y4	F006, F007, D006, D007, D009	177,296	14	TN3 890090001	TN3 890090001	S01
e. Hazardous Waste Solid, NOS, ORM-E / Y5	F006, F007	1,070	1	TN3 890090001	TN3 890090001	S01
f. Hazardous Waste Solid, NOS, Radioactive Material / Y6	D008, D009, F002	3,351	2	TN3 890090001	TN3 890090001	S01
g. Hazardous Waste Substance, NOS, Radioactive Material / Y7	D007, D008, D009	2,455	1	TN3 890090001	TN3 890090001	S01
h. Hazardous Waste Solids, NOS, ORM-E / Y8	D006, D007, D008, D009, F002	3,455	1	TN3 890090001	TN3 890090001	S01
i. Hazardous Waste Solid, NOS, ORM-E / Y9	D004, D005, D006, D007, D008, D009, D011	16,044	1	TN3 890090001	TN3 890090001	S01

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

M. M. Heiskell MARIANNE M. HEISKELL, K-25 SITE MANAGER SEP 12 1990

TN 2118a, (SWM 12/89 Rev.)

Date: 08/90
Revision No.: 1A

United States Department of Energy, K-25 Site

1989 Summary Report for TSDR Facilities

1989 Summary Report for TSDR Facilities

(For all permitted or interim status facilities)

EPA ID CODE TNO 89-009-0004 Y-Y-Y
UNITED STATES DEPT. OF ENERGY K-25 SITE

Marianne M. Heiskell
K-25 Site Office
Department of Energy, Oak Ridge Operations
P.O. Box 2003, Oak Ridge, TN 37831-7468

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 37219-5403

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

2. Dot Shipping Name / Waste name	EPA Waste codes	Amount Onsite Begin of Year (kg)	Amount Received (kg)	Amount Treat/ Disposed/Ship (kg)	Amount Onsite End of Year (kg)	Treatment/Disposal Handling Codes
a. Hazardous Waste Liquid, NOS/ Electroless Nickel Solution (8)	D002, D007, D009, F006	0	830	0	830	S01
b. Hazardous Waste Liquid, NOS/ K-1401 Hydrochloric Acid and Rinse Waters (10)	D002, D007	0	66,386	66,386	0	T31, T23
c. Hazardous Waste Liquid, NOS/ K-1401 Alkali (11)	D002, D007, D008	0	32,318	32,318	0	T31, T23
d. Hazardous Waste Liquid, NOS/ K-1501 Hydrogen Softener Blowdown (12)	D002	0	8,420,000	8,420,000	0	T31, T23
e. Waste Sodium Hydroxide Solution/ Sodium Hydroxide Solution (18)	D002, D008	20	348	348	20	Shipped; S01
f. Waste Sodium Metal / Sodium Metal (20)	D001, D002, D003	0	44	44	0	Shipped
g. Waste Corrosive Liquid, NOS/ K-1401 Diversey (26)	D002, D006, D007	196	191	0	387	S01
h. Waste Flammable Liquid, NOS/ Flammable Liquids (35)	D001, D002, D007, D008, F002, F003, U122, U165	219	2,095	2,095	219	Shipped
i. Waste Corrosive Liquid, NOS/ Corrosive Liquids (36)	D002, D003, D007	2	6,409	6,003	408	Shipped; S01; T31

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

M. M. Heiskell MARIANNE M. HEISKELL, K-25 SITE MANAGER SEP 12 1990

TH-3194 . (SWM 12/89)

Date: 08/90
Revision No.: 1A

United States Department of Energy, K-25 Site

1989 Waste Stream Report

Date: 08/90
Revision No.: 1A

Hazardous Waste Stream Report - Front JAN 05, 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
~~1,364~~ 10,000 | ~~1,364~~ 10,000 | 0 ~~1,364~~ | 0 ~~365~~

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)
1989	0	0	0

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

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

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

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

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

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