K00044

MARTIN MARIETTA ENERGY SYSTEMS, INC.

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July 31, 1991

Distribution

1990 Annual Report of Hazardous Waste Activities for the Oak Ridge K-25 Site--K/HS-344

Enclosed are revised pages for your copy of K/HS-344, entitled 1990 Annual Report of Hazardous Waste Activities for the Oak Ridge K-25 Site. Please make the following changes to your copy of the report:

Remove	Insert
Page C-2	Page C-2
Page C-3	Page C-3
Page F-26	Page F-26
Page F-28	Page F-28
Page F-30	Page F-30
Page F-76	Page F-76
Page F-106	Page F-106
Page F-112	Page F-112

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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

Sincerely,

Sheila Thornton

S. G. Thornton, Production Reports
Oak Ridge K-25 Site

SGT:shr

Enclosure

****

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AUG - 5

K/HS-344

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1990 Offsite Shipping Report

(For wastes shipped off site only.)

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, D80
e 39, FS	Waste Poisonous Solids, NOS/Poisonous Solids (Lab Packs)	D004	6	1	LAD010395127	LAD981059017	T07, T39, D80
f 40, FS	Waste Oxidizer, NOS/ Oxidizing Substances (Liquids)	D001	25	1	LAD010395127	LAD981059017	T07, T39, D80
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

Date: 07/91

1990 Offsite Shipping Report

Page 2 of 2

(For wastes shipped off site only.)

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 103	Waste Cyclohexane / Waste Cyclohexane	D001	18	1	LAD010395127	LAD981059017	T07
b. FS(122)	Hazardous Waste Solid, NOS / Hazardous Waste Solid (Bulk)	F001, F002, F003, F006, D001, DOMX	905	1	LAD010395127	LAD981059017	T39, D80
c 128, FS	Flammable Solids, NOS / Flammable Solids Lab Pack	D001, D003	72	1	LAD010395127	LAD981059017	T07
d 137, FS	Waste ORM-A, NOS / Waste ORM-A (Lab Packs)	UOMX, F003, D007	237	1	LAD010395127	LAD981059017	T07, T39, D80
e 138, FS	Waste Flammable Liquid, NOS / Flammable Liquids (Bulk)	D001, D002, DOMX	1,031	1	LAD010395127	LAD981059017	T06
f FS(140)	Hazardous Waste Solid, NOS / Hazardous Waste Solid (Lab Packs)	POMX, UOMX, DOMX	148	1	LAD010395127	LAD981059017	T07, T31, D80
g FS (141)	Waste ORM-A, NOS / Waste ORM-A (Bulk)	F002	143	1	LAD010395127	LAD981059017	T06
h FS (142)	Waste Corrosive Liquid, NOS / Corrosive Liquids (Bulk)	D001, D002, D007, D009	205	1	LAD010395127	LAD981059017	T06
i FS (143)	Waste ORM-B, NOS / Waste ORM-B (Lab Packs)	D006	7	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

Date: 07/91

Date: 07/91

Hazardous Waste Stream Report - Front DEC 13, 1990

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

1. Organization's name. | EPA ID CODE
UNITED STATES DEPT OF ENERGY K-25 SITE | TN0 89-009-0004

2. Waste name | Waste stream ID
POISONOUS LIQUIDS (Lab Packs) | 38

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

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

5. Physical form | % Solid | % Water | Lb./gal | Chlorine PPM | BTU/lb.
LIQUID, OTHER BASED | 10.0 | | 8.000 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stored
26 ~~24~~ | 26 ~~24~~ | 26 ~~24~~ | 90

7. DOT shipping name | DOT hazard class | DOT ID code
WASTE POISONOUS LIQUIDS, N.O.S. | POISON B | UN2810

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

** ANNUAL REPORT SECTION ** LINES 9-11

9.

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

	Amount Handled by site		TSDF handling/Waste management methods
A	OFFSITE: 5 kg	N	T07, T39, D80
B	ONSITE.	Y	
C	ONSITE.	Y	
D	ONSITE:	Y	

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

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

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

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

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

Date: 07/91

Hazardous Waste Stream Report - Front DEC 13, 1990

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

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

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

3. Give years waste generated | Date stopped | Frequency of generation
1944- | ~~12/31/90~~ 00/00/00 | VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES: F | U0MXD0MXP0MX | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
OTHER SOLID | .0 | | 8.000 | 0 | .0

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

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

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

** ANNUAL REPORT SECTION ** LINES 9-11

9.

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

	Amount Handled by site		TSDF handling/Waste management methods
A	OFFSITE. 2 kg	N	T07, T39, D80
B	ONSITE: 3 kg	Y	S01
C	ONSITE.	Y	
D	ONSITE:	Y	

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

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

g. Other - explain below g( )

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

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

Date: 07/91

Hazardous Waste Stream Report - Front DEC 13, 1990

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

1. Organization's name. | EPA ID CODE
UNITED STATES DEPT OF ENERGY K-25 SITE | TN0 89-009-0004

2. Waste name. | Waste stream ID
OXIDIZING SUBSTANCES, LIQUIDS | 40

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

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES: FE | DOMXU160 | 2819

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

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stored
264 ~~198~~ | 264 ~~198~~ | 264 ~~198~~ | 90

7 DOT shipping name | DOT hazard class | DOT ID code
WASTE OXIDIZER, NOS | OXIDIZER | 1479

8. Describe generation process.
LAB PACK IS MADE UP OF SMALL QUANTITIES OF VARIOUS^OXIDIZING SUBSTANCES GENERATED DURING PLANT OPERATIONS.^THIS IS A PURE WASTE.^

** ANNUAL REPORT SECTION ** LINES 9-11

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

	Amount Handled by site		TSDF handling/Waste management methods
A	OFFSITE 8 kg	N	T07, T39, D80
B	ONSITE. 8 kg	Y	S01, T07, T39, D80
C	ONSITE 14 kg	Y	S01
D	ONSITE:	Y	

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

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

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

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

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

Hazardous Waste Stream Report - Front DEC 13, 1990

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

1. Organization's name. | EPA ID CODE
UNITED STATES DEPT OF ENERGY K-25 SITE | TN0 89-009-0004

2. Waste name. | Waste stream ID
HAZARDOUS WASTE SOLID (Bulk) | 122

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

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES: BF | F001, F002, F006 ~~D006 D007~~ ~~D008 D011~~ F003, D001, DCMX | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
OTHER SOLID | 100.0 | | 8.000 | 0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stored
27,375 ≠ | 27,375 ≠ | 27,375 | 90

7. DOT shipping name | DOT hazard class | DOT ID code
~~ORM-E~~ Hazardous Waste Solid, NOS | O R M - E | 9189

8. Describe generation process.
MISCELLANEOUS SOLIDS CONTAMINATED WITH HAZARDOUS MATERIALS

** 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	54,730	0	109

	Amount Handled by site		TSDF handling/Waste management methods
A	OFFSITE.	N	
B	ONSITE: 442 kg	Y	S01, T39, D80
C	ONSITE: 54,179 kg	Y	S01
D	ONSITE.	Y	

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

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

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

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

Date: 07/91

Hazardous Waste Stream Report

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

1. Organization's full name at facility. United States Department of Energy K-25 Site	EPA identification code TN0 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	Continuous / Accidental/ One time / (Various)
4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f).	EPA waste codes. (Primary first) U0MX, F003, D007
SIC code for generating process.	2819

5. Physical form	Percent solid %	Percent water %	Vol. to wt. conversion (pounds per gallon)	If used for fuel. chlorine content PPM	BTU per pound /lb.
Liquid, other based					

6. Generation rates. Supply all rates in kilograms. Monthly maximum	Annual average	Maximum amount stored on-site	Maximum days stored
350 (kg)	350 (kg)	350 (kg)	90

7. DOT shipping name	DOT hazard class	DOT ID code
Waste ORM-A, NOS	ORM-A	1693

8. Describe generation process.
Waste process chemicals.

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

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

Report Year	Amount generated during year (kg)	Amount on-site on first day of year (kg)	Amount on-site on last day of year (kg)
1990	350	0	0

	Total Handled OFFsite		TSDR handling/Waste management methods		Amount Handled ONsite		TSDR handling/Waste management methods
a	93 kg	N	T07, T39, D80	b	13 kg	Y	S01, T07, T39, D80
	Amount Handled ONsite		TSDR handling/Waste management methods		Amount Handled ONsite		TSDR handling/Waste management methods
c	244 kg	Y	S01	d		Y	

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. This reduction refers to generation processes and not treatment methods.
a. Reformulation/redesign of product . a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification . c( )
d. Substituting raw materials . . . . d( )
e. Improved operations. . . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

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

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

Date: 07/91

Hazardous Waste Stream Report

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

1. Organization's full name at facility.
United States Department of Energy K-25 Site

EPA identification code
TNO 89-009-0004

2. Waste name. Use standard name from regulations whenever possible.
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
Continuous Accidental/ One time (Vari

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

EPA waste codes. (Primary first)
POMX, UOMX, DOMX

SIC code for generating process.
2819

5. Physical form
Other solid

Percent solid % water %

Vol. to wt. conversion (pounds per gallon)

If used for fuel. chlorine content PPM BTU per pound /lb.

6. Generation rates. Supply all rates in kilograms.
Monthly maximum 411 (kg)
Annual average 411 (kg)

Maximum amount stored on-site 411 (kg)

Maximum days stored 90

7. DOT shipping name
Hazardous Waste Solid, NOS

DOT hazard class
ORM-E

DOT ID code
9189

8. Describe generation process.
Miscellaneous small quantity solids contaminated with hazardous materials.

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

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

Report Year	Amount generated during year (kg)	Amount on-site on first day of year (kg)	Amount on-site on last day of year (kg)
1990	411	0	1

	Total Handled OFFsite	TSDR handling/Waste management methods		Amount Handled ONsite		TSDR handling/Waste management methods
a		N	b	45 kg	Y	S01, T07, T31, D80

	Amount Handled ONsite		TSDR handling/Waste management methods		Amount Handled ONsite		TSDR handling/Waste management methods
c	365 kg	Y	S01	d		Y	

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. This reduction refers to generation processes and not treatment methods.
a. Reformulation/redesign of product . a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification . c( )
d. Substituting raw materials . . . .d( )
e. Improved operations. . . . . .e( )
f. No effort. . . . . .f(X)
g. Other - explain below: . . . . . g( )

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

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

ChemRisk Document Request Transmittal Form

(This section to be completed by ChemRisk)

S. Sandberg, ISD

Name Division is requested to provide the following document

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Date of Request 12/10 Expected receipt of document 12/21

Title of requested document 1990 Annual Report of Haz Waste...

Document Number K00044

Access Number of Document _____ Date of Document July 31, 1991

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Date document transmitted to Dr. Quist 1/15/93

Date release received from Dr. Quist OK as 1/29/93

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Signature: Date

DOCUMENT DESCRIPTION (to be completed by requester)

Document number UNNUMBERED/K00044 Pages 10

Document title 1990 ANNUAL REPORT OF HAZARDOUS ACTIVITIES FOR THE OAK RIDGE K-25 SITE–K/HS-344

Author(s) (indicate other divisions or organizations, if applicable) SG THORNTON

Document type (See Doc. Prep. Guide, Chs. 1 and 2, for definitions of document types):

- ☐ Formal Report
- ☐ Progress Report
- ☐ Informal R&D Report
- ☐ Abstract
- ☐ Drawing
- ☐ Administrative
- ☑ Correspondence
- ☐ Internal Technical Data
- ☐ Photo
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- ☐ Journal Article (identify journal):
- ☐ Oral Presentation (identify meeting, sponsor, location, date):

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Remarks

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☐ No ☐ Yes Within the Department of Energy? ☐ No ☐ Yes

Name or Description of applicable program(s)

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