Y-12

OAK RIDGE Y-12 PLANT

LOCKHEED MARTIN

EMERGENCY PLANNING AND COMMUNITY

RIGHT-TO-KNOW ACT

SECTION 312 TIER TWO REPORT FORMS

R. A. Evans

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Environmental Compliance
Organization

February 1998

MASTER

Prepared by the
Oak Ridge Y-12 Plant
Oak Ridge, Tennessee 37831
managed by
Lockheed Martin Energy Systems, Inc.
for the U.S. Department of Energy
under Contract No. DE-AC05-84OR21400

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

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EMERGENCY PLANNING AND COMMUNITY
RIGHT-TO-KNOW ACT
SECTION 312 TIER TWO REPORT FORMS

R. A. Evans

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Prepared by the
Oak Ridge Y-12 Plant
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Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical	Facility Identification Name <u>US DOE Lockheed Martin Energy Systems Y-12 Plant*</u> Street <u>Bear Creek Road</u> City <u>Oak Ridge</u> County <u>Anderson</u> State <u>TN</u> Zip <u>37831</u> SIC Code <u>3499</u> Dun & Brad Number <u> </u> - <u> </u> - <u> </u> FOR OFFICIAL USE ONLY ID # <u> </u> Date Received <u> </u>		Owner/Operator Name Name <u>U.S. Department of Energy</u> Phone <u>(423) 576-9850</u> Mail Address <u>P.O. Box 2001, Oak Ridge, TN 37831</u> Emergency Contact Name <u>Plant Shift Superintendent</u> Title <u> </u> Phone <u>(423) 574-7172</u> 24 Hr. Phone <u>(423) 574-7172</u> Name <u>DOE Emergency Response Center</u> Title <u> </u> Phone <u>(423) 576-1005</u> 24 Hr. Phone <u>(423) 576-1005</u>	
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Important: Read all instructions before completing form

Reporting Period From January 1 to December 31, 1997

☐ Check if information below is identical to the information submitted last year.

Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Storage Codes and Locations (Non-Confidential) <i>Storage Locations</i>																		
CAS <u>000064</u> <u>197</u> Trade Secret ☐ Chem. Name <u>ACETIC ACID</u> Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	Max. Daily Amount (code) <u>04</u> Avg. Daily Amount (code) <u>04</u> No. of Days On-Site (days) <u>365</u>	<div style="display: flex;"> <div style="width: 10%; text-align: center;"> C n T T y e p e p s </div> <div style="width: 90%;"> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>C</td><td>4</td><td>1</td></tr> <tr><td>G</td><td>4</td><td>1</td></tr> <tr><td>K</td><td>4</td><td>1</td></tr> <tr><td>M</td><td>4</td><td>1</td></tr> <tr><td>M</td><td>4</td><td>1</td></tr> <tr><td>M</td><td>4</td><td>1</td></tr> </table> </div> </div> 9616-7 / West End Treatment Facility / Groundwater Treatment Facility UVSPF / Room 3 9623 / Central Pollution Control Facility 9201-5 / 2nd Floor / Arc Melt; 9202 / 1st Floor / Room 178 9203 / 1st floor / Room 50; 9204-2E / 3rd Floor / Room 316 9204-3 / 1st Floor / Room 109; 9206 / 1st Floor	C	4	1	G	4	1	K	4	1	M	4	1	M	4	1	M	4	1
C	4	1																			
G	4	1																			
K	4	1																			
M	4	1																			
M	4	1																			
M	4	1																			
CAS <u>000064</u> <u>197</u> Trade Secret ☐ Chem. Name <u>ACETIC ACID (cont'd)</u> Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	Max. Daily Amount (code) <u>04</u> Avg. Daily Amount (code) <u>04</u> No. of Days On-Site (days) <u>365</u>	<div style="display: flex;"> <div style="width: 10%; text-align: center;"> M M N R </div> <div style="width: 90%;"> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>M</td><td>4</td><td>1</td></tr> <tr><td>M</td><td>4</td><td>1</td></tr> <tr><td>N</td><td>4</td><td>1</td></tr> <tr><td>R</td><td>4</td><td>1</td></tr> </table> </div> </div> 9210 / 2nd floor / 221; 9212 / Room 1014; 9401-2 / Surface Coating 9616-7 / Laboratory; 9624 / WETF Lab.; 9731 / 1st Floor; 9818; 9995 9417-8; 9739; 9769 9204-1 / 1st Floor / Room 112; 9720-2; 9720-8	M	4	1	M	4	1	N	4	1	R	4	1						
M	4	1																			
M	4	1																			
N	4	1																			
R	4	1																			
CAS <u>001344</u> <u>281</u> Trade Secret ☐ Chem. Name <u>ALUMINUM OXIDE</u> Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	Max. Daily Amount (code) <u>04</u> Avg. Daily Amount (code) <u>04</u> No. of Days On-Site (days) <u>365</u>	<div style="display: flex;"> <div style="width: 10%; text-align: center;"> D E F I J K </div> <div style="width: 90%;"> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>D</td><td>4</td><td>1</td></tr> <tr><td>E</td><td>4</td><td>1</td></tr> <tr><td>F</td><td>4</td><td>1</td></tr> <tr><td>I</td><td>4</td><td>1</td></tr> <tr><td>J</td><td>4</td><td>1</td></tr> <tr><td>K</td><td>4</td><td>1</td></tr> </table> </div> </div> 9201-5; 9998 9709; 9738 9202 / 3rd Floor; 9204-2; 9204-2E; 9624; 9995 9202 / 1st Floor / Room 178; 9727-4 9202; 9203; 9404-20; 9831 9201-5N; 9204-1; 9712; 9714; 9720-50; 9998	D	4	1	E	4	1	F	4	1	I	4	1	J	4	1	K	4	1
D	4	1																			
E	4	1																			
F	4	1																			
I	4	1																			
J	4	1																			
K	4	1																			

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 25, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Todd R. Butz, Y-12 Plant Manager

Name and official title of owner/operator OR owner/operator's authorized representative

Signature

2/17/98
 Date signed

Optional Attachments

- ☐ I have attached a site plan
- ☐ I have attached a list of site coordinate abbreviations
- ☐ I have attached a description of dikes and other safeguard measures

Tier Two <small>Emergency and Hazardous Chemical Inventory</small>	Facility Identification			Owner/Operator Name		
	Name <u>US DOE Lockheed Martin Energy Systems Y-12 Plant*</u>			Name <u>U.S. Department of Energy</u> Phone <u>(423) 576-9850</u>		
	Street <u>Bear Creek Road</u>			Mail Address <u>P.O. Box 2001, Oak Ridge, TN 37831</u>		
<small>Specific Information by Chemical</small>	City <u>Oak Ridge</u> County <u>Anderson</u> State <u>TN</u> Zip <u>37831</u>			Emergency Contact		
	SIC Code <u>3499</u> Dun & Brad Number <u> </u> - <u> </u> - <u> </u>			Name <u>Plant Shift Superintendent</u> Title <u> </u>		
	FOR OFFICIAL USE ONLY ID # <u> </u>			Phone <u>(423) 574-7172</u> 24 Hr. Phone <u>(423) 574-7172</u>		
			Name <u>DOE Emergency Response Center</u> Title <u> </u>			
			Phone <u>(423) 576-1005</u> 24 Hr. Phone <u>(423) 576-1005</u>			

Important: Read all instructions before completing form

Reporting Period From January 1 to December 31, 1997☐ Check if information below is identical to the information submitted last year.

Chemical Description	Physical and Health Hazards <small>(check all that apply)</small>	Inventory	Storage Codes and Locations <small>(Non-Confidential)</small>																		
CAS <u>001344</u> <u>28</u> <u>1</u> Trade Secret ☐ Chem. Name <u>ALUMINUM OXIDE (cont'd)</u> Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	<u>0</u> <u>4</u> Max. Daily Amount (code) <u>0</u> <u>4</u> Avg. Daily Amount (code) <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>C</td><td>P</td></tr> <tr><td>n</td><td>r</td></tr> <tr><td>T</td><td>e</td></tr> <tr><td>y</td><td>s</td></tr> <tr><td>p</td><td>s</td></tr> <tr><td>e</td><td>s</td></tr> </table> <u>M</u> <u>4</u> <u>1</u> 9202; 9204-3; 9737; 9995 <u>N</u> <u>4</u> <u>1</u> 9201-3; 9201-5; 9202; 9203; 9204-1; 9206; 9401-3; 9995 <u>R</u> <u>4</u> <u>1</u> 9201-1; 9201-2; 9201-3; 9204-3; 9204-4; 9208; 9212; 9404-20; 9712 <u>R</u> <u>4</u> <u>1</u> 9714; 9723-25	C	P	n	r	T	e	y	s	p	s	e	s						
C	P																				
n	r																				
T	e																				
y	s																				
p	s																				
e	s																				
CAS <u>007440</u> <u>37</u> <u>1</u> Trade Secret ☐ Chem. Name <u>ARGON</u> Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☒ Gas ☐ EHS EHS Name <u> </u>	☒ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	<u>0</u> <u>5</u> Max. Daily Amount (code) <u>0</u> <u>5</u> Avg. Daily Amount (code) <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>A</td><td>7</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> </table> 9977-1 / Gas Storage 9201-3; 9201-5 / 2nd Floor / Arc Melt; 9202; 9203 9204-1 / Maintenance Shop; 9204-2 / Maintenance; 9204-2E / 2nd Floor 9204-3; 9206; 9206 / West Dock; 9212 / B-1 Wing / Maintenance Area 9212 / West Side Cylinder Storage; 9215 / M Wing 9215 / West side Cylinder Storage; 9401-1; 9401-5; 9420	A	7	2	L	4	2	L	4	2	L	4	2	L	4	2	L	4	2
A	7	2																			
L	4	2																			
L	4	2																			
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L	4	2																			
L	4	2																			
CAS <u>007440</u> <u>37</u> <u>1</u> Trade Secret ☐ Chem. Name <u>ARGON (cont'd)</u> Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☒ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	<u>0</u> <u>5</u> Max. Daily Amount (code) <u>0</u> <u>5</u> Avg. Daily Amount (code) <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> </table> 9616-7 / West End Treatment Facility; 9624 / Maintenance Shop 9709 / Weld Test Shop; 9720-13; 9720-58 / Waste oil/Solvent Storage 9720-6 / Metal Fab Shops; 9723-25 / 1st Floor / Maintenance shop; 9731 9769; 9995; Union Valley Facility	L	4	2	L	4	2	L	4	2	L	4	2						
L	4	2																			
L	4	2																			
L	4	2																			
L	4	2																			

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 25, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Todd R. Butz, Y-12 Plant Manager

Name and official title of owner/operator OR owner/operator's authorized representative

Signature

Date signed

Optional Attachments

- ☐ I have attached a site plan
- ☐ I have attached a list of site coordinate abbreviations
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Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical	Facility Identification Name <u>US DOE Lockheed Martin Energy Systems Y-12 Plant*</u> Street <u>Bear Creek Road</u> City <u>Oak Ridge</u> County <u>Anderson</u> State <u>TN</u> Zip <u>37831</u> SIC Code <u>3499</u> Dun & Brad Number <u> </u> - <u> </u> - <u> </u> <div style="display: flex; justify-content: space-between;"> <div> FOR OFFICIAL USE ONLY ID # <u> </u> Date Received <u> </u> </div> </div>		Owner/Operator Name Name <u>U.S. Department of Energy</u> Phone <u>(423) 576-9850</u> Mail Address <u>P.O. Box 2001, Oak Ridge, TN 37831</u> Emergency Contact Name <u>Plant Shift Superintendent</u> Title <u> </u> Phone <u>(423) 574-7172</u> 24 Hr. Phone <u>(423) 574-7172</u> Name <u>DOE Emergency Response Center</u> Title <u> </u> Phone <u>(423) 576-1005</u> 24 Hr. Phone <u>(423) 576-1005</u>	
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Reporting Period From January 1 to December 31, 1997

☐ Check if information below is identical to the information submitted last year.

Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Storage Codes and Locations (Non-Confidential) <i>Storage Locations</i>																								
CAS <u>007440417</u> Trade Secret ☐ Chem. Name <u>BERYLLIUM & COMPOUNDS, AS BE</u> Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	☐ Max. Daily Amount (code) ☐ Avg. Daily Amount (code) ☐ No. of Days On-Site (days) <u>04</u> <u>04</u> <u>365</u>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>D</td><td>4</td><td>1</td><td>9201-5 / 1st Floor / Annex</td></tr> <tr><td>J</td><td>4</td><td>1</td><td>9203A / 1st Floor</td></tr> <tr><td>K</td><td>4</td><td>1</td><td>9202 / 2nd Floor / Room 216</td></tr> <tr><td>N</td><td>4</td><td>1</td><td>9203A / 1st Floor</td></tr> <tr><td>R</td><td>4</td><td>1</td><td>9203A / 1st Floor / Room 102A</td></tr> </table>	D	4	1	9201-5 / 1st Floor / Annex	J	4	1	9203A / 1st Floor	K	4	1	9202 / 2nd Floor / Room 216	N	4	1	9203A / 1st Floor	R	4	1	9203A / 1st Floor / Room 102A				
D	4	1	9201-5 / 1st Floor / Annex																								
J	4	1	9203A / 1st Floor																								
K	4	1	9202 / 2nd Floor / Room 216																								
N	4	1	9203A / 1st Floor																								
R	4	1	9203A / 1st Floor / Room 102A																								
CAS <u>001306190</u> Trade Secret ☐ Chem. Name <u>CADMIUM OXIDE</u> Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☐ Liquid ☐ Gas ☒ EHS EHS Name <u>CADMIUM OXIDE</u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	☐ Max. Daily Amount (code) ☐ Avg. Daily Amount (code) ☐ No. of Days On-Site (days) <u>02</u> <u>02</u> <u>365</u>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>M</td><td>4</td><td>1</td><td>9204-3 / 1st Floor; 9995</td></tr> <tr><td>N</td><td>4</td><td>1</td><td>9204-3 / 2nd Floor; 9401-2</td></tr> <tr><td>R</td><td>4</td><td>1</td><td>9995</td></tr> </table>	M	4	1	9204-3 / 1st Floor; 9995	N	4	1	9204-3 / 2nd Floor; 9401-2	R	4	1	9995												
M	4	1	9204-3 / 1st Floor; 9995																								
N	4	1	9204-3 / 2nd Floor; 9401-2																								
R	4	1	9995																								
CAS <u>001317653</u> Trade Secret ☐ Chem. Name <u>CALCIUM CARBONATE</u> Check all that apply: ☒ Pure ☐ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic)	☐ Max. Daily Amount (code) ☐ Avg. Daily Amount (code) ☐ No. of Days On-Site (days) <u>04</u> <u>04</u> <u>365</u>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>E</td><td>4</td><td>1</td><td>9404-5; 9831</td></tr> <tr><td>F</td><td>4</td><td>1</td><td>9201-3; 9204-2; 9204-2E; 9206; 9401-3; 9420; 9623; 9624; 9720-15</td></tr> <tr><td>F</td><td>4</td><td>1</td><td>9720-6; 9723-25; 9831; 9983-BK; 9995</td></tr> <tr><td>J</td><td>4</td><td>1</td><td>9204-2E; 9401-3; 9404-20; 9720-50; 9720-8; 9723-25</td></tr> <tr><td>M</td><td>4</td><td>1</td><td>9203 / 1st floor; 9995; UVSPF</td></tr> <tr><td>N</td><td>4</td><td>1</td><td>9202; 9203; 9995</td></tr> </table>	E	4	1	9404-5; 9831	F	4	1	9201-3; 9204-2; 9204-2E; 9206; 9401-3; 9420; 9623; 9624; 9720-15	F	4	1	9720-6; 9723-25; 9831; 9983-BK; 9995	J	4	1	9204-2E; 9401-3; 9404-20; 9720-50; 9720-8; 9723-25	M	4	1	9203 / 1st floor; 9995; UVSPF	N	4	1	9202; 9203; 9995
E	4	1	9404-5; 9831																								
F	4	1	9201-3; 9204-2; 9204-2E; 9206; 9401-3; 9420; 9623; 9624; 9720-15																								
F	4	1	9720-6; 9723-25; 9831; 9983-BK; 9995																								
J	4	1	9204-2E; 9401-3; 9404-20; 9720-50; 9720-8; 9723-25																								
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Todd R. Butz, Y-12 Plant Manager

Name and official title of owner/operator OR owner/operator's authorized representative

Signature

Date signed

Optional Attachments

- ☐ I have attached a site plan
- ☐ I have attached a list of site coordinate abbreviations
- ☐ I have attached a description of dikes and other safeguard measures

Facility Identification Name US DOE Lockheed Martin Energy Systems Y-12 Plant* Street Bear Creek Road City Oak Ridge County Anderson State TN Zip 37831 SIC Code 3499 Dun & Brad Number - - - - -		Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical	
Owner/Operator Name Name U.S. Department of Energy Mail Address P.O. Box 2001, Oak Ridge, TN 37831 Emergency Contact Name Plant Shift Superintendent Phone (423) 574-7172 Name DOE Emergency Response Center Phone (423) 576-1005 Title 24 Hr. Phone (423) 574-7172 Title 24 Hr. Phone (423) 576-1005		Reporting Period From January 1 to December 31, 1997 Check if information below is identical to the information submitted last year. ☐	

Chemical Description	Physical and Health Hazards	Inventory	Storage Codes and Locations (Non-Confidential)
CAS 0010043524 Chem. Name CALCIUM CARBONATE (cont'd) EHS Name Check all that apply: Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS ☐	Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic) ☒	Max. Daily Amount (code) 04 Avg. Daily Amount (code) 04 No. of Days On-Site (days) 365	9616-11; 9714; 9720-13 R 4 1 C n t r o l l e d s t o r a g e l o c a t i o n s
CAS 0010043524 Chem. Name CALCIUM CHLORIDE EHS Name Check all that apply: Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS ☐	Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic) ☐	Max. Daily Amount (code) 05 Avg. Daily Amount (code) 05 No. of Days On-Site (days) 365	9712 D 4 1 9201-1; 9201-4; 9201-5; 9204-3 / 1st Floor / Room 101 E 4 1 9204-3 / 1st Floor / Room 109; 9738 / Foundry E 4 1 9404-20 F 4 1 9219 / Grounds and Roads Work Area; 9831 J 4 1 9202; 9769 / 3rd Floor / Room 308 M 4 1
CAS 0010043524 Chem. Name CALCIUM CHLORIDE (cont'd) EHS Name Check all that apply: Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS ☐	Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic) ☐	Max. Daily Amount (code) 05 Avg. Daily Amount (code) 05 No. of Days On-Site (days) 365	9203; 9219 / Grounds and Roads Work Area; 9995; Union Valley Facility N 4 1 R 4 1 9720-50

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Name and official title of owner/operator OR owner/operator's authorized representative
 Todd R. Butz, Y-12 Plant Manager
 Signature *[Signature]*
 Date signed 2/17/98

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Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical	Facility Identification		Owner/Operator Name	
	Name US DOE Lockheed Martin Energy Systems Y-12 Plant*		Name U.S. Department of Energy Phone (423) 576-9850	
	Street Bear Creek Road		Mail Address P.O. Box 2001, Oak Ridge, TN 37831	
City Oak Ridge County Anderson State TN Zip 37831		Emergency Contact		
SIC Code 3499 Dun & Brad Number		Name Plant Shift Superintendent Title		
FOR OFFICIAL USE ONLY ID #		Phone (423) 574-7172 24 Hr. Phone (423) 574-7172		
Date Received		Name DOE Emergency Response Center Title		
		Phone (423) 576-1005 24 Hr. Phone (423) 576-1005		

Important: Read all instructions before completing form

Reporting Period From January 1 to December 31, 1997

☐ Check if information below is identical to the information submitted last year.

Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Storage Codes and Locations (Non-Confidential) Storage Locations	Opt																		
CAS 001305 620 Trade Secret Chem. Name CALCIUM HYDROXIDE Check all that apply: ☒ Pure ☐ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	☐ 5 Max. Daily Amount (code) ☐ 5 Avg. Daily Amount (code) ☐ 5 No. of Days ☐ 5 On-Site (days)	<table border="1"><tr><td>A</td><td>4</td><td>1</td></tr><tr><td>D</td><td>4</td><td>1</td></tr><tr><td>F</td><td>4</td><td>1</td></tr><tr><td>H</td><td>4</td><td>1</td></tr><tr><td>J</td><td>4</td><td>1</td></tr><tr><td>M</td><td>4</td><td>1</td></tr></table> 9616-7 / West End Treatment Facility 9983-AL 9201-2; 9720-50 9616-9; 9623 9616-7 / West End Treatment Facility 9204-2 / 2nd Floor / ETA/DAP Area; Union Valley Facility	A	4	1	D	4	1	F	4	1	H	4	1	J	4	1	M	4	1	☐
A	4	1																				
D	4	1																				
F	4	1																				
H	4	1																				
J	4	1																				
M	4	1																				
CAS 001305 620 Trade Secret Chem. Name CALCIUM HYDROXIDE (cont'd) Check all that apply: ☒ Pure ☐ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	☐ 5 Max. Daily Amount (code) ☐ 5 Avg. Daily Amount (code) ☐ 5 No. of Days ☐ 5 On-Site (days)	<table border="1"><tr><td>N</td><td>4</td><td>1</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table> 9202; 9624 / WETF Lab.; 9995	N	4	1																☐
N	4	1																				
CAS 007440 440 Trade Secret Chem. Name CARBON (GRAPHITE, SYNTHETIC) Check all that apply: ☒ Pure ☐ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	☐ 4 Max. Daily Amount (code) ☐ 4 Avg. Daily Amount (code) ☐ 5 No. of Days ☐ 5 On-Site (days)	<table border="1"><tr><td>C</td><td>4</td><td>1</td></tr><tr><td>D</td><td>4</td><td>1</td></tr><tr><td>E</td><td>4</td><td>1</td></tr><tr><td>F</td><td>4</td><td>1</td></tr><tr><td>I</td><td>4</td><td>1</td></tr><tr><td>J</td><td>4</td><td>1</td></tr></table> 9616-7 / Groundwater Treatment Facility 9204-2; 9206; 9404-9; 9720-19A; 9720-27; 9998 / H-1 Foundry 9201-5; 9201-5N; 9204-2E 9201-5; 9206; 9212; 9215; 9404-9; 9720-5 9422 9616-7 / West Tank Farm	C	4	1	D	4	1	E	4	1	F	4	1	I	4	1	J	4	1	☐
C	4	1																				
D	4	1																				
E	4	1																				
F	4	1																				
I	4	1																				
J	4	1																				

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 25, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Todd R. Butz, Y-12 Plant Manager

Name and official title of owner/operator OR owner/operator's authorized representative

Signature

Date signed

Optional Attachments

- ☐ I have attached a site plan
- ☐ I have attached a list of site coordinate abbreviations
- ☐ I have attached a description of dikes and other safeguard measures

Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical	Facility Identification		Owner/Operator Name	
	Name <u>US DOE Lockheed Martin Energy Systems Y-12 Plant*</u>		Name <u>U.S. Department of Energy</u> Phone <u>(423) 576-9850</u>	
	Street <u>Bear Creek Road</u>		Mail Address <u>P.O. Box 2001, Oak Ridge, TN 37831</u>	
	City <u>Oak Ridge</u> County <u>Anderson</u> State <u>TN</u> Zip <u>37831</u>			
	SIC Code <u>3499</u> Dun & Brad Number <u> </u> - <u> </u> - <u> </u>			
	FOR OFFICIAL USE ONLY ID # <u> </u> Date Received <u> </u>		Emergency Contact	
			Name <u>Plant Shift Superintendent</u> Title <u> </u>	
			Phone <u>(423) 574-7172</u> 24 Hr. Phone <u>(423) 574-7172</u>	
			Name <u>DOE Emergency Response Center</u> Title <u> </u>	
			Phone <u>(423) 576-1005</u> 24 Hr. Phone <u>(423) 576-1005</u>	

Important: Read all instructions before completing form

Reporting Period From January 1 to December 31, 1997

☐ Check if information below is identical to the information submitted last year.

Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Storage Codes and Locations (Non-Confidential) Storage Locations	Opt																		
CAS <u>007440</u> <u>44</u> <u>0</u> Trade Secret ☐ Chem. Name <u>CARBON (GRAPHITE, SYNTHETIC)</u> IC) (cont'd) Check all that apply: ☒ Pure ☐ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	<u>0</u> <u>4</u> Max. Daily Amount (code) <u>0</u> <u>4</u> Avg. Daily Amount (code) <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<table border="1"><tr><td>C</td><td>n</td><td>P</td></tr><tr><td>y</td><td>T</td><td>r</td></tr><tr><td>p</td><td>e</td><td>s</td></tr><tr><td>e</td><td>p</td><td>s</td></tr></table> <u>K</u> <u>4</u> <u>1</u> 9201-1; 9422 <u>R</u> <u>4</u> <u>1</u> 9720-1; 9720-8	C	n	P	y	T	r	p	e	s	e	p	s	☐						
C	n	P																				
y	T	r																				
p	e	s																				
e	p	s																				
CAS <u>000124</u> <u>38</u> <u>9</u> Trade Secret ☐ Chem. Name <u>CARBON DIOXIDE</u> Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☒ Liquid ☒ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	<u>0</u> <u>5</u> Max. Daily Amount (code) <u>0</u> <u>5</u> Avg. Daily Amount (code) <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<table border="1"><tr><td>A</td><td>4</td><td>2</td></tr><tr><td>L</td><td>4</td><td>2</td></tr><tr><td>P</td><td>4</td><td>2</td></tr></table> <u>9710-2 / Outside Tank</u> <u>9204-2E / 2nd Floor; 9709; 9769; 9995 / Basement Floor</u> <u>9710-2 / Outside Tanker</u>	A	4	2	L	4	2	P	4	2	☐									
A	4	2																				
L	4	2																				
P	4	2																				
CAS <u>061790</u> <u>53</u> <u>2</u> Trade Secret ☐ Chem. Name <u>DIATOMACEOUS EARTH</u> Check all that apply: ☒ Pure ☐ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	<u>0</u> <u>4</u> Max. Daily Amount (code) <u>0</u> <u>4</u> Avg. Daily Amount (code) <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<table border="1"><tr><td>E</td><td>4</td><td>1</td></tr><tr><td>F</td><td>4</td><td>1</td></tr><tr><td>J</td><td>4</td><td>1</td></tr><tr><td>J</td><td>4</td><td>1</td></tr><tr><td>M</td><td>4</td><td>1</td></tr><tr><td>N</td><td>4</td><td>1</td></tr></table> <u>9206</u> <u>9201-5; 9204-2</u> <u>9201-1 / Oil House; 9202; 9212 / B-1 Wing; 9212 / C-1 Wing</u> <u>9212 / E Wing; 9212 / Reduction; 9616-9; 9720-2</u> <u>9207</u> <u>9201-1 / 1st Floor / Oil Room</u>	E	4	1	F	4	1	J	4	1	J	4	1	M	4	1	N	4	1	☐
E	4	1																				
F	4	1																				
J	4	1																				
J	4	1																				
M	4	1																				
N	4	1																				

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 25, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate and complete.

Todd R. Butz, Y-12 Plant Manager

Name and official title of owner/operator OR owner/operator's authorized representative

Signature

Date signed

Optional Attachments

- ☐ I have attached a site plan
- ☐ I have attached a list of site coordinate abbreviations
- ☐ I have attached a description of dikes and other safeguard measures

Important: Read all instructions before completing form	Reporting Period	From January 1 to December 31, 1997	☐ Check if information below is identical to the information submitted last year.
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Certification (Read and sign after completing all sections) I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through <u>25</u> , and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. Todd R. Butz, Y-12 Plant Manager _____ Name and official title of owner/operator OR owner/operator's authorized representative		Optional Attachments ☐ I have attached a site plan ☐ I have attached a list of site coordinate abbreviations ☐ I have attached a description of dikes and other safeguard measures
Signature <u>JRB</u>		Date signed <u>2/17/98</u>

**This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.*

Tier Two <small>Emergency and Hazardous Chemical Inventory</small> <small>Specific Information by Chemical</small>	Facility Identification Name <u>US DOE Lockheed Martin Energy Systems Y-12 Plant*</u> Street <u>Bear Creek Road</u> City <u>Oak Ridge</u> County <u>Anderson</u> State <u>TN</u> Zip <u>37831</u> SIC Code <u>3499</u> Dun & Brad Number <u> </u> - <u> </u> - <u> </u> FOR OFFICIAL USE ONLY ID # <u> </u> Date Received <u> </u>			Owner/Operator Name Name <u>U.S. Department of Energy</u> Phone <u>(423) 576-9850</u> Mail Address <u>P.O. Box 2001, Oak Ridge, TN 37831</u> Emergency Contact Name <u>Plant Shift Superintendent</u> Title <u> </u> Phone <u>(423) 574-7172</u> 24 Hr. Phone <u>(423) 574-7172</u> Name <u>DOE Emergency Response Center</u> Title <u> </u> Phone <u>(423) 576-1005</u> 24 Hr. Phone <u>(423) 576-1005</u>			
	Important: Read all instructions before completing form			Reporting Period From January 1 to December 31, <u>1997</u>		☐ Check if information below is identical to the information submitted last year.	
	Chemical Description	Physical and Health Hazards <small>(check all that apply)</small>	Inventory	<div style="display: flex; flex-direction: column; align-items: center; font-size: 0.8em;">C n T y p e P T e e m s e p s</div>	Storage Codes and Locations (Non-Confidential) <small>Storage Locations</small>		O P t
CAS <u>000076</u> <u>131</u> Trade Secret ☐ Chem. Name <u>FREON 113 (cont'd)</u> <small>Check all that apply:</small> ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	<u>04</u> Max. Daily Amount (code) <u>04</u> Avg. Daily Amount (code) <u>365</u> No. of Days On-Site (days)	<div style="display: flex; flex-direction: column; align-items: center;"><div style="display: flex; flex-direction: column; align-items: center;"><div style="border: 1px solid black; padding: 2px;">M</div><div style="border: 1px solid black; padding: 2px;">N</div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div></div><div style="display: flex; flex-direction: column; align-items: center;"><div style="border: 1px solid black; padding: 2px;">4</div><div style="border: 1px solid black; padding: 2px;">4</div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div></div><div style="display: flex; flex-direction: column; align-items: center;"><div style="border: 1px solid black; padding: 2px;">2</div><div style="border: 1px solid black; padding: 2px;">1</div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div></div></div>	<u>9204-1 / 1st Floor / Red Shop</u> <u>9103 / 1st Floor; 9203</u> 		☐	
CAS <u>000075</u> <u>718</u> Trade Secret ☐ Chem. Name <u>FREON 12</u> <small>Check all that apply:</small> ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☒ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	<u>04</u> Max. Daily Amount (code) <u>04</u> Avg. Daily Amount (code) <u>365</u> No. of Days On-Site (days)	<div style="display: flex; flex-direction: column; align-items: center;"><div style="display: flex; flex-direction: column; align-items: center;"><div style="border: 1px solid black; padding: 2px;">L</div><div style="border: 1px solid black; padding: 2px;">L</div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div></div><div style="display: flex; flex-direction: column; align-items: center;"><div style="border: 1px solid black; padding: 2px;">4</div><div style="border: 1px solid black; padding: 2px;">4</div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div></div><div style="display: flex; flex-direction: column; align-items: center;"><div style="border: 1px solid black; padding: 2px;">2</div><div style="border: 1px solid black; padding: 2px;">2</div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div></div></div>	<u>9201-1; 9201-3; 9201-5N; 9204-1 / Dock 119; 9204-2E; 9204-4; 9712</u> <u>9714 / TSD Garage; 9737; 9808 / Refrigeration Shop; 9959; 9981</u> 		☐	
CAS <u>000075</u> <u>456</u> Trade Secret ☐ Chem. Name <u>FREON 22</u> <small>Check all that apply:</small> ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☒ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	<u>04</u> Max. Daily Amount (code) <u>04</u> Avg. Daily Amount (code) <u>365</u> No. of Days On-Site (days)	<div style="display: flex; flex-direction: column; align-items: center;"><div style="display: flex; flex-direction: column; align-items: center;"><div style="border: 1px solid black; padding: 2px;">F</div><div style="border: 1px solid black; padding: 2px;">L</div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div></div><div style="display: flex; flex-direction: column; align-items: center;"><div style="border: 1px solid black; padding: 2px;">4</div><div style="border: 1px solid black; padding: 2px;">4</div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div></div><div style="display: flex; flex-direction: column; align-items: center;"><div style="border: 1px solid black; padding: 2px;">2</div><div style="border: 1px solid black; padding: 2px;">2</div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div><div style="border: 1px solid black; padding: 2px;"> </div></div></div>	<u>9203; 9737</u> <u>9201-3; 9208; 9420; 9720-8; 9737; 9808 / Refrigeration Shop; 9959</u> 		☐	

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Todd R. Butz, Y-12 Plant Manager
Name and official title of owner/operator OR owner/operator's authorized representative

Signature

2/17/98
Date signed

Optional Attachments
☐ I have attached a site plan
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Tier Two <small>Emergency and Hazardous Chemical Inventory</small> <small>Specific Information by Chemical</small>	Facility Identification		Owner/Operator Name	
	Name <u>US DOE Lockheed Martin Energy Systems Y-12 Plant*</u>		Name <u>U.S. Department of Energy</u> Phone <u>(423) 576-9850</u>	
	Street <u>Bear Creek Road</u>		Mail Address <u>P.O. Box 2001, Oak Ridge, TN 37831</u>	
City <u>Oak Ridge</u> County <u>Anderson</u> State <u>TN</u> Zip <u>37831</u>		Emergency Contact Name <u>Plant Shift Superintendent</u> Title _____ Phone <u>(423) 574-7172</u> 24 Hr. Phone <u>(423) 574-7172</u> Name <u>DOE Emergency Response Center</u> Title _____ Phone <u>(423) 576-1005</u> 24 Hr. Phone <u>(423) 576-1005</u>		
SIC Code <u>3499</u> Dun & Brad Number <u> </u> - <u> </u> - <u> </u>				
FOR OFFICIAL USE ONLY ID # _____ Date Received _____				

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Reporting Period From January 1 to December 31, 1997

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Chemical Description	Physical and Health Hazards <small>(check all that apply)</small>	Inventory	<div style="display: flex; justify-content: space-between;"> <div style="font-size: 0.8em;"> C n T y p e </div> <div> Storage Codes and Locations (Non-Confidential) Storage Locations </div> <div style="font-size: 0.8em;"> P r e s s </div> </div>																		
CAS <u>000075</u> <u>69</u> <u>4</u> Trade Secret ☐ Chem. Name <u>FREON(R) 11</u> Check all that apply: ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name _____	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	☐ <u>0</u> <u>4</u> Max. Daily Amount (code) ☐ <u>0</u> <u>4</u> Avg. Daily Amount (code) ☐ <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<div style="display: flex;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>D</td><td>4</td><td>1</td></tr> <tr><td>F</td><td>4</td><td>1</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> <div style="margin-left: 5px;"> 9201-5E; 9720-2 / Bay 40 Oil storage 9203 / 1st floor / Room 45 - TEM Lab </div> </div>	D	4	1	F	4	1												
D	4	1																			
F	4	1																			
CAS <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> Trade Secret ☐ Chem. Name <u>GASOLINE, UNLEADED</u> Check all that apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name _____	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	☐ <u>0</u> <u>5</u> Max. Daily Amount (code) ☐ <u>0</u> <u>5</u> Avg. Daily Amount (code) ☐ <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<div style="display: flex;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>A</td><td>4</td><td>1</td></tr> <tr><td>B</td><td>4</td><td>1</td></tr> <tr><td>D</td><td>4</td><td>1</td></tr> <tr><td>F</td><td>4</td><td>1</td></tr> <tr><td>F</td><td>4</td><td>1</td></tr> <tr><td>F</td><td>4</td><td>1</td></tr> </table> <div style="margin-left: 5px;"> 9201-5; 9204-4; 9712 9714 / Underground Tank; 9754-3 / Underground Tank 9401-1; 9720-13 9201-1; 9201-2 / Storage Shed; 9204-1; 9206; 9219; 9404-20; 9404-5 9714; 9720-41; 9720-6; 9808; 9828-6; 9983; Sanitary Landfill #6 West Tank Farm </div> </div>	A	4	1	B	4	1	D	4	1	F	4	1	F	4	1	F	4	1
A	4	1																			
B	4	1																			
D	4	1																			
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F	4	1																			
CAS <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> Trade Secret ☐ Chem. Name <u>GASOLINE, UNLEADED (cont'</u> <u>d)</u> Check all that apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name _____	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	☐ <u>0</u> <u>5</u> Max. Daily Amount (code) ☐ <u>0</u> <u>5</u> Avg. Daily Amount (code) ☐ <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<div style="display: flex;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>P</td><td>4</td><td>1</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> <div style="margin-left: 5px;"> 9712 </div> </div>	P	4	1															
P	4	1																			

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 25, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Todd R. Butz, Y-12 Plant Manager

Name and official title of owner/operator OR owner/operator's authorized representative

Signature

Date signed

Optional Attachments

- ☐ I have attached a site plan
- ☐ I have attached a list of site coordinate abbreviations
- ☐ I have attached a description of dikes and other safeguard measures

Tier Two Emergency and Hazardous Chemical Inventory	Facility Identification		Owner/Operator Name	
	Name <u>US DOE Lockheed Martin Energy Systems Y-12 Plant*</u>		Name <u>U.S. Department of Energy</u> Phone <u>(423) 576-9850</u>	
	Street <u>Bear Creek Road</u>		Mail Address <u>P.O. Box 2001, Oak Ridge, TN 37831</u>	
Specific Information by Chemical	City <u>Oak Ridge</u> County <u>Anderson</u> State <u>TN</u> Zip <u>37831</u>		Emergency Contact	
	SIC Code <u>3499</u> Dun & Brad Number <u> </u> - <u> </u> - <u> </u>		Name <u>Plant Shift Superintendent</u> Title <u> </u>	
	FOR OFFICIAL USE ONLY ID # <u> </u> Date Received <u> </u>		Phone <u>(423) 574-7172</u> 24 Hr. Phone <u>(423) 574-7172</u> Name <u>DOE Emergency Response Center</u> Title <u> </u> Phone <u>(423) 576-1005</u> 24 Hr. Phone <u>(423) 576-1005</u>	

Important: Read all instructions before completing form

Reporting Period From January 1 to December 31, 1997

☐ Check if information below is identical to the information submitted last year.

Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Storage Codes and Locations (Non-Confidential) <i>Storage Locations</i>	Opt																		
CAS <u>007440</u> <u>597</u> Trade Secret ☐ Chem. Name <u>HELIUM</u> Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☐ Liquid ☒ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)	<u>04</u> Max. Daily Amount (code) <u>04</u> Avg. Daily Amount (code) <u>365</u> No. of Days On-Site (days)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td>Q</td><td>4</td><td>2</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> <u>9201-1; 9201-2; 9201-3; 9201-5N; 9202; 9203; 9204-1 / Dock 119</u> <u>9204-2 / Maintenance; 9204-2E; 9206; 9404-1; 9616-7; 9709; 9720-13</u> <u>9720-6; 9723-25; 9769; 9959; 9995; 9998</u> <u>9977-1 / Gas Storage</u>	L	4	2	L	4	2	L	4	2	Q	4	2							□
L	4	2																				
L	4	2																				
L	4	2																				
Q	4	2																				
CAS <u>007647</u> <u>010</u> Trade Secret ☐ Chem. Name <u>HYDROCHLORIC ACID</u> Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☒ EHS EHS Name <u>HYDROCHLORIC ACID</u>	☐ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	<u>05</u> Max. Daily Amount (code) <u>05</u> Avg. Daily Amount (code) <u>365</u> No. of Days On-Site (days)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>A</td><td>4</td><td>1</td></tr> <tr><td>D</td><td>4</td><td>1</td></tr> <tr><td>E</td><td>4</td><td>1</td></tr> <tr><td>F</td><td>4</td><td>1</td></tr> <tr><td>M</td><td>4</td><td>1</td></tr> <tr><td>M</td><td>4</td><td>1</td></tr> </table> <u>9204-2 / Tank</u> <u>9201-5</u> <u>9201-4</u> <u>9404-5</u> <u>9201-5; 9202; 9203; 9204-2E / 3rd Floor; 9204-3</u> <u>9206 / 2nd Floor / Room 100E; 9207; 9212 / E Wing / Room 1021</u>	A	4	1	D	4	1	E	4	1	F	4	1	M	4	1	M	4	1	□
A	4	1																				
D	4	1																				
E	4	1																				
F	4	1																				
M	4	1																				
M	4	1																				
CAS <u>007647</u> <u>010</u> Trade Secret ☐ Chem. Name <u>HYDROCHLORIC ACID (cont'd)</u> Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☒ EHS EHS Name <u>HYDROCHLORIC ACID</u>	☐ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	<u>05</u> Max. Daily Amount (code) <u>05</u> Avg. Daily Amount (code) <u>365</u> No. of Days On-Site (days)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>M</td><td>4</td><td>1</td></tr> <tr><td>M</td><td>4</td><td>1</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> <u>9401-3 / 1st Floor; 9616-7 / Laboratory; 9720-2; 9731</u> <u>9737 / 1st Floor / Room 9; 9769; 9995; Union Valley Facility</u>	M	4	1	M	4	1													□
M	4	1																				
M	4	1																				

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 25, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Todd R. Butz, Y-12 Plant Manager

Name and official title of owner/operator OR owner/operator's authorized representative

Signature

2/17/98

Date signed

Optional Attachments

- ☐ I have attached a site plan
- ☐ I have attached a list of site coordinate abbreviations
- ☐ I have attached a description of dikes and other safeguard measures

Tier Two Information by Chemical Inventory Hazardous and Emergency City Oak Ridge Street Bear Creek Road Name US DOE Lockheed Martin Energy Systems Y-12 Plant* County Anderson State TN Zip 37831 SIC Code 3499 Dun & Bradstreet Number - - - - - ID # Date Received		Owner/Operator Name U.S. Department of Energy Mail Address P.O. Box 2001, Oak Ridge, TN 37831 Emergency Contact Name Plant Shift Superintendent Phone (423) 574-7172 Name DOE Emergency Response Center Phone (423) 576-1005 Title 24 Hr. Phone (423) 574-7172 Title 24 Hr. Phone (423) 576-1005	
Important: Read all instructions before completing form Reporting Period From January 1 to December 31, 1997 ☐ Check if information below is identical to the information submitted last year.			

Chemical Description	Physical and Health Hazards	Inventory	Storage Codes and Locations (Non-Confidential) Storage Locations
CAS 0007664393 Chem. Name HYDROGEN FLUORIDE EHS Name HYDROGEN FLUORIDE Check all that apply: Pure ☒ Mix ☐ Solid ☐ Liquid ☒ Gas ☒ EHS ☒	Fire ☐ Sudden Release of Pressure ☒ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic) ☒	Max. Daily Amount (code) 02 Avg. Daily Amount (code) 02 No. of Days On-Site (days) 365	9720-40 9201-5N; 9204-3; 9204-4; 9212 / E Wing / Room 1021; 9720-2 9202; 9204-2E / 3rd Floor; 9995; Union Valley Facility
CAS 0007722841 Chem. Name HYDROGEN PEROXIDE EHS Name HYDROGEN PEROXIDE Check all that apply: Pure ☒ Mix ☐ Solid ☐ Liquid ☒ Gas ☐ EHS ☒	Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic) ☐	Max. Daily Amount (code) 03 Avg. Daily Amount (code) 03 No. of Days On-Site (days) 365	9616-7 / West End Treatment Facility / Groundwater Treatment Facility 9811-1 / OIL DIKE 7 (OD7) / WTS-D-WSA 9811-1 / OIL DIKE 8 (OD8) / WTS-D-WSA 9995 9202; 9203; 9204-3; 9206; 9624; 9995; UVSPF 9119; 9706-2; 9720-8; 9995
CAS 0000667630 Chem. Name ISOPROPYL ALCOHOL EHS Name Check all that apply: Pure ☐ Mix ☒ Solid ☐ Liquid ☒ Gas ☐ EHS ☐	Fire ☒ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic) ☐	Max. Daily Amount (code) 04 Avg. Daily Amount (code) 04 No. of Days On-Site (days) 365	9201-1; 9201-5; 9201-5N; 9204-2; 9204-2E / 3rd Floor / Room 309; 9208 9720-8 9103; 9202; 9206; 9616-7 / Laboratory; 9720-2; 9720-8; 9737 9204-2E / 3rd Floor / Room 311; 9207; 9212 / B-1 Wing; 9212 / E Wing 9401-1; 9720-2; 9723-25; 9737; 9738; Union Valley Facility

Certification (Read and sign after completing all sections) I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 25, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.		Name and official title of owner/operator OR owner/operator's authorized representative Todd R. Butz, Y-12 Plant Manager Signature Date signed 3/17/98	☐ I have attached a site plan ☐ I have attached a list of site coordinate abbreviations ☐ I have attached a description of dikes and other safeguard measures
Optional Attachments			

**This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.*

**This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.*

Tier Two <small>Emergency and Hazardous Chemical Inventory</small>	Facility Identification		Owner/Operator Name	
	Name <u>US DOE Lockheed Martin Energy Systems Y-12 Plant*</u>		Name <u>U.S. Department of Energy</u> Phone <u>(423) 576-9850</u>	
	Street <u>Bear Creek Road</u>		Mail Address <u>P.O. Box 2001, Oak Ridge, TN 37831</u>	
<small>Specific Information by Chemical</small>	City <u>Oak Ridge</u> County <u>Anderson</u> State <u>TN</u> Zip <u>37831</u>		Emergency Contact	
	SIC Code <u>3499</u> Dun & Brad Number <u> </u> - <u> </u> - <u> </u>			
	<div style="display: flex; justify-content: space-between;"> <div>FOR OFFICIAL USE ONLY</div> <div>ID # <u> </u></div> </div> <div style="display: flex; justify-content: space-between;"> <div></div> <div>Date Received <u> </u></div> </div>			
Name <u>DOE Emergency Response Center</u> Title <u> </u>		Phone <u>(423) 576-1005</u> 24 Hr. Phone <u>(423) 576-1005</u>		

Important: Read all instructions before completing form

Reporting Period

From January 1 to December 31, 1997

☐ Check if information below is identical to the information submitted last year.

Chemical Description	Physical and Health Hazards <small>(check all that apply)</small>	Inventory	Storage Codes and Locations <small>(Non-Confidential)</small>	O P T																		
CAS <u>007439</u> <u>97</u> <u>6</u> Trade Secret ☐ Chem. Name <u>MERCURY METAL</u> Check all that apply: ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	<u>0</u> <u>6</u> Max. Daily Amount (code) <u>0</u> <u>6</u> Avg. Daily Amount (code) <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<div style="display: flex;"> <div style="margin-right: 5px;"> C n T y p e P r e s e n t a t i o n a l S e c r e t </div> <div> <table border="1" style="border-collapse: collapse;"> <tr><td>M</td><td>4</td><td>1</td></tr> <tr><td>N</td><td>4</td><td>1</td></tr> <tr><td>R</td><td>4</td><td>1</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> </div> </div> <u>9202; 9203; 9710-2; 9720-26</u> <u>9201-2; 9208; 9720-8; 9737 / 2nd Floor</u> <u>9212 / E Wing</u>	M	4	1	N	4	1	R	4	1										☐
M	4	1																				
N	4	1																				
R	4	1																				
CAS <u>0000067</u> <u>56</u> <u>1</u> Trade Secret ☐ Chem. Name <u>METHANOL</u> Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	<u>0</u> <u>4</u> Max. Daily Amount (code) <u>0</u> <u>4</u> Avg. Daily Amount (code) <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<div style="display: flex;"> <div style="margin-right: 5px;"> C n T y p e P r e s e n t a t i o n a l S e c r e t </div> <div> <table border="1" style="border-collapse: collapse;"> <tr><td>D</td><td>4</td><td>1</td></tr> <tr><td>F</td><td>4</td><td>1</td></tr> <tr><td>F</td><td>4</td><td>1</td></tr> <tr><td>F</td><td>4</td><td>2</td></tr> <tr><td>M</td><td>4</td><td>1</td></tr> <tr><td>M</td><td>4</td><td>1</td></tr> </table> </div> </div> <u>9720-2; 9767-13; 9767-4</u> <u>9201-1; 9201-3; 9201-5; 9201-5E; 9204-2; 9204-2E; 9204-4; 9212; 9215</u> <u>9404-16; 9723-25; 9738</u> <u>9201-5N; 9212; 9215</u> <u>9201-5; 9202; 9203; 9204-2; 9204-4; 9207; 9215; 9720-2; 9737; 9769</u> <u>9995; Union Valley Facility</u>	D	4	1	F	4	1	F	4	1	F	4	2	M	4	1	M	4	1	☐
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M	4	1																				
CAS <u>0000067</u> <u>56</u> <u>1</u> Trade Secret ☐ Chem. Name <u>METHANOL (cont'd)</u> Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	<u>0</u> <u>4</u> Max. Daily Amount (code) <u>0</u> <u>4</u> Avg. Daily Amount (code) <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<div style="display: flex;"> <div style="margin-right: 5px;"> C n T y p e P r e s e n t a t i o n a l S e c r e t </div> <div> <table border="1" style="border-collapse: collapse;"> <tr><td>N</td><td>4</td><td>1</td></tr> <tr><td>N</td><td>4</td><td>2</td></tr> <tr><td>R</td><td>4</td><td>1</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> </div> </div> <u>9201-5E; 9208; 9401-3; 9720-2; 9723-25</u> <u>9723-25</u> <u>9720-2</u>	N	4	1	N	4	2	R	4	1										☐
N	4	1																				
N	4	2																				
R	4	1																				

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Todd R. Butz, Y-12 Plant Manager

Name and official title of owner/operator OR owner/operator's authorized representative

Signature

Date signed

5/17/98

Optional Attachments

- ☐ I have attached a site plan
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Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical	Facility Identification		Owner/Operator Name	
	Name US DOE Lockheed Martin Energy Systems Y-12 Plant*		Name U.S. Department of Energy Phone (423) 576-9850	
	Street Bear Creek Road		Mail Address P.O. Box 2001, Oak Ridge, TN 37831	
	City Oak Ridge	County Anderson	State TN	Zip 37831
	SIC Code 3499	Dun & Brad Number		
	FOR OFFICIAL USE ONLY		ID #	
			Date Received	
		Emergency Contact		
		Name Plant Shift Superintendent		Title
		Phone (423) 574-7172		24 Hr. Phone (423) 574-7172
		Name DOE Emergency Response Center		Title
		Phone (423) 576-1005		24 Hr. Phone (423) 576-1005

Important: Read all instructions before completing form

Reporting Period From January 1 to December 31, 1997

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Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Storage Codes and Locations (Non-Confidential) Storage Locations	Opt																		
CAS 007440 02 0 Trade Secret ☐ Chem. Name NICKEL AND NICKEL COMPOUN DS Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	0 4 Max. Daily Amount (code) 0 4 Avg. Daily Amount (code) 3 6 5 No. of Days On-Site (days)	<table border="1"><tr><td>D</td><td>4</td><td>1</td></tr><tr><td>F</td><td>4</td><td>1</td></tr><tr><td>J</td><td>4</td><td>1</td></tr><tr><td>K</td><td>4</td><td>1</td></tr><tr><td>M</td><td>4</td><td>1</td></tr><tr><td>N</td><td>4</td><td>1</td></tr></table> 9204-4 / 2nd Floor / Plating Shop; 9720-8 9201-1; 9201-3; 9203; 9208 9204-4 / 2nd Floor / Plating Shop; 9720-2; 9720-50; 9831 9212; 9401-3; 9624 9203; 9204-3; 9995; UVSPF 9203; 9204-3; 9204-4 / 2nd Floor / Plating Shop; 9624	D	4	1	F	4	1	J	4	1	K	4	1	M	4	1	N	4	1	☐
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K	4	1																				
M	4	1																				
N	4	1																				
CAS 007440 02 0 Trade Secret ☐ Chem. Name NICKEL AND NICKEL COMPOUN DS (cont'd) Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	0 4 Max. Daily Amount (code) 0 4 Avg. Daily Amount (code) 3 6 5 No. of Days On-Site (days)	<table border="1"><tr><td>R</td><td>4</td><td>1</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table> 9201-5; 9204-3; 9212; 9720-2; 9720-8	R	4	1																☐
R	4	1																				
CAS 007440 03 1 Trade Secret ☐ Chem. Name NIOBIUM METAL Check all that apply: ☒ Pure ☐ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	0 4 Max. Daily Amount (code) 0 4 Avg. Daily Amount (code) 3 6 5 No. of Days On-Site (days)	<table border="1"><tr><td>D</td><td>4</td><td>1</td></tr><tr><td>F</td><td>4</td><td>1</td></tr><tr><td>K</td><td>4</td><td>1</td></tr><tr><td>L</td><td>4</td><td>1</td></tr><tr><td>M</td><td>4</td><td>1</td></tr><tr><td>N</td><td>4</td><td>1</td></tr></table> 9202 9202 9202; 9401-3 9831 9202; 9203; 9204-3; 9995; UVSPF 9202; 9203	D	4	1	F	4	1	K	4	1	L	4	1	M	4	1	N	4	1	☐
D	4	1																				
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Todd R. Butz, Y-12 Plant Manager

Name and official title of owner/operator OR owner/operator's authorized representative

Signature

Date signed

Optional Attachments

- ☐ I have attached a site plan
- ☐ I have attached a list of site coordinate abbreviations
- ☐ I have attached a description of dikes and other safeguard measures

Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical	Facility Identification Name <u>US DOE Lockheed Martin Energy Systems Y-12 Plant*</u> Street <u>Bear Creek Road</u> City <u>Oak Ridge</u> County <u>Anderson</u> State <u>TN</u> Zip <u>37831</u> SIC Code <u>3499</u> Dun & Brad Number <u> </u> - <u> </u> - <u> </u> FOR OFFICIAL USE ONLY ID # <u> </u> Date Received <u> </u>		Owner/Operator Name Name <u>U.S. Department of Energy</u> Phone <u>(423) 576-9850</u> Mail Address <u>P.O. Box 2001, Oak Ridge, TN 37831</u> Emergency Contact Name <u>Plant Shift Superintendent</u> Title <u> </u> Phone <u>(423) 574-7172</u> 24 Hr. Phone <u>(423) 574-7172</u> Name <u>DOE Emergency Response Center</u> Title <u> </u> Phone <u>(423) 576-1005</u> 24 Hr. Phone <u>(423) 576-1005</u>	
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Reporting Period

From January 1 to December 31, 1997

☐ Check if information below is identical to the information submitted last year.

Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Storage Codes and Locations (Non-Confidential) Storage Locations	Opt
CAS <u>007440</u> <u>031</u> Trade Secret ☐ Chem. Name <u>NIOBIUM METAL (cont'd)</u> Check all that apply: ☒ Pure ☐ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	<u>04</u> Max. Daily Amount (code) <u>04</u> Avg. Daily Amount (code) <u>365</u> No. of Days On-Site (days)	C n P T r y e e p m s e p s <u>R41</u> 9201-1; 9202; 9401-3; 9703-15; 9720-6; 9723-25; 9737; 9831; 9995	O P T
CAS <u>007697</u> <u>372</u> Trade Secret ☐ Chem. Name <u>NITRIC ACID</u> Check all that apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☒ EHS EHS Name <u>NITRIC ACID</u>	☐ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	<u>04</u> Max. Daily Amount (code) <u>04</u> Avg. Daily Amount (code) <u>365</u> No. of Days On-Site (days)	A 4 1 9206; 9815 C 4 1 9206 / 2nd Floor / Room 100E; 9212 / B-1 Wing / Penthouse D 4 1 9204-3 / 2nd Floor M 4 1 9201-5 / 2nd Floor; 9201-5N / 1st Floor / Plating Shop; 9202; 9203 M 4 1 9204-2E / 3rd Floor / Room 316; 9204-3 / 1st Floor M 4 1 9204-4 / 2nd Floor / Plating Shop; 9207 / 1st Floor / Room 7-1006	O P T
CAS <u>007697</u> <u>372</u> Trade Secret ☐ Chem. Name <u>NITRIC ACID (cont'd)</u> Check all that apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☒ EHS EHS Name <u>NITRIC ACID</u>	☐ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	<u>04</u> Max. Daily Amount (code) <u>04</u> Avg. Daily Amount (code) <u>365</u> No. of Days On-Site (days)	M 4 1 9212 / E Wing / Room 1021; 9401-2 / Plating Shop / Annex; 9616-7; 9731 M 4 1 9769; 9995; Union Valley Facility N 4 1 9769; 9995	O P T

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 25, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Todd R. Butz, Y-12 Plant Manager

Name and official title of owner/operator OR owner/operator's authorized representative

Signature

Date signed

Optional Attachments

- ☐ I have attached a site plan
- ☐ I have attached a list of site coordinate abbreviations
- ☐ I have attached a description of dikes and other safeguard measures

Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical	Facility Identification Name <u>US DOE Lockheed Martin Energy Systems Y-12 Plant*</u> Street <u>Bear Creek Road</u> City <u>Oak Ridge</u> County <u>Anderson</u> State <u>TN</u> Zip <u>37831</u> SIC Code <u>3</u> <u>4</u> <u>9</u> <u>9</u> Dun & Brad Number <u> </u> - <u> </u> - <u> </u> <u> </u>				Owner/Operator Name Name <u>U.S. Department of Energy</u> Phone <u>(423) 576-9850</u> Mail Address <u>P.O. Box 2001, Oak Ridge, TN 37831</u>	
	Emergency Contact Name <u>Plant Shift Superintendent</u> Title <u> </u> Phone <u>(423) 574-7172</u> 24 Hr. Phone <u>(423) 574-7172</u> Name <u>DOE Emergency Response Center</u> Title <u> </u> Phone <u>(423) 576-1005</u> 24 Hr. Phone <u>(423) 576-1005</u>					
	FOR OFFICIAL USE ONLY ID # <u> </u> Date Received <u> </u>					

Important: Read all instructions before completing form

Reporting Period From January 1 to December 31, 1997

☐ Check if information below is identical to the information submitted last year.

Chemical Description	Physical and Health Hazards <small>(check all that apply)</small>	Inventory	C n t e n t s P r e s e n c e S t o r e a g e s S t o r e l o c a t i o n s	Storage Codes and Locations (Non-Confidential) Storage Locations	O p t i o n a l																		
CAS <u>0</u> <u>0</u> <u>7</u> <u>7</u> <u>2</u> <u>7</u> <u>3</u> <u>7</u> <u>9</u> Trade Secret ☐ Chem. Name <u>NITROGEN</u> Check all that apply: ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☒ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)	☐ <u>0</u> <u>5</u> Max. Daily Amount (code) ☐ <u>0</u> <u>5</u> Avg. Daily Amount (code) ☐ <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>A</td><td>7</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td>L</td><td>7</td><td>2</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	A	7	2	L	4	2	L	4	2	L	7	2							9977-1 9201-2 / Weld Shops; 9201-3; 9204-2E; 9401-1; 9401-5; 9420; 9735; 9737 9738; 9769; 9808; 9995 9204-3; 9206; 9212	☐
A	7	2																					
L	4	2																					
L	4	2																					
L	7	2																					
CAS <u>0</u> <u>0</u> <u>7</u> <u>7</u> <u>8</u> <u>2</u> <u>4</u> <u>4</u> <u>7</u> Trade Secret ☐ Chem. Name <u>OXYGEN</u> Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☒ Gas ☐ EHS EHS Name <u> </u>	☒ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)	☐ <u>0</u> <u>5</u> Max. Daily Amount (code) ☐ <u>0</u> <u>5</u> Avg. Daily Amount (code) ☐ <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>A</td><td>7</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td>L</td><td>4</td><td>2</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	A	7	2	L	4	2	L	4	2	L	4	2							9723-25; 9738 / Foundry; 9977-1 9201-2; 9204-2 / Maintenance; 9204-2E / 2nd Floor; 9215 / M Wing; 9420 9709 / Weld Test Shop; 9720-6; 9738 / Foundry; 9769; 9808 9995 / Basement Floor	☐
A	7	2																					
L	4	2																					
L	4	2																					
L	4	2																					
CAS <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> Trade Secret ☐ Chem. Name <u>PETROLEUM OIL</u> Check all that apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	☐ <u>0</u> <u>5</u> Max. Daily Amount (code) ☐ <u>0</u> <u>4</u> Avg. Daily Amount (code) ☐ <u>3</u> <u>6</u> <u>5</u> No. of Days On-Site (days)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>A</td><td>4</td><td>1</td></tr> <tr><td>D</td><td>4</td><td>1</td></tr> <tr><td>D</td><td>4</td><td>1</td></tr> <tr><td>D</td><td>4</td><td>1</td></tr> <tr><td>D</td><td>4</td><td>1</td></tr> <tr><td>E</td><td>4</td><td>1</td></tr> </table>	A	4	1	D	4	1	D	4	1	D	4	1	D	4	1	E	4	1	9201-3; 9204-2 / PV Room 9201-1; 9201-5; 9201-5E; 9201-5N; 9201-5W; 9204-2; 9204-2E; 9204-4 9206; 9208; 9211; 9212 / A Wing; 9212 / E Wing; 9215 / Basement 9215 / M Wing; 9401-2; 9709; 9712; 9714 / TSD Garage; 9720-2; 9727-4 9767-1; 9767-11; 9767-13; 9767-3; 9808; 9998 9714 / TSD Garage; 9720-2; 9977-1	☐
A	4	1																					
D	4	1																					
D	4	1																					
D	4	1																					
D	4	1																					
E	4	1																					

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Todd R. Butz, Y-12 Plant Manager

Name and official title of owner/operator OR owner/operator's authorized representative

Signature

Date signed

Optional Attachments

- ☐ I have attached a site plan
- ☐ I have attached a list of site coordinate abbreviations
- ☐ I have attached a description of dikes and other safeguard measures

**This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.*

Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical	Facility Identification		Owner/Operator Name	
	Name <u>US DOE Lockheed Martin Energy Systems Y-12 Plant*</u>		Name <u>U.S. Department of Energy</u> Phone <u>(423) 576-9850</u>	
	Street <u>Bear Creek Road</u>		Mail Address <u>P.O. Box 2001, Oak Ridge, TN 37831</u>	
	City <u>Oak Ridge</u> County <u>Anderson</u> State <u>TN</u> Zip <u>37831</u>		Emergency Contact	
	SIC Code <u>3499</u> Dun & Brad Number <u> </u> - <u> </u> - <u> </u>		Name <u>Plant Shift Superintendent</u> Title <u> </u>	
	FOR OFFICIAL USE ONLY ID # <u> </u>		Phone <u>(423) 574-7172</u> 24 Hr. Phone <u>(423) 574-7172</u>	
	Date Received <u> </u>		Name <u>DOE Emergency Response Center</u> Title <u> </u>	
			Phone <u>(423) 576-1005</u> 24 Hr. Phone <u>(423) 576-1005</u>	

Important: Read all instructions before completing form

Reporting Period

From January 1 to December 31, 1997
☐ Check if information below is identical to the information submitted last year.

Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Storage Codes and Locations (Non-Confidential) <i>Storage Locations</i>	O P T																				
CAS <u>065997</u> <u>15</u> <u>1</u> Trade Secret ☐ Chem. Name <u>PORTLAND CEMENT</u> Check all that apply: ☐ Pure ☒ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	☐ Max. Daily Amount (code) ☐ Avg. Daily Amount (code) ☐ No. of Days On-Site (days) <u>0</u> <u>4</u> <u>0</u> <u>4</u> <u>3</u> <u>6</u> <u>5</u>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>F</td><td>4</td><td>1</td><td>9420; 9831; 9995</td></tr> <tr><td>J</td><td>4</td><td>1</td><td>9401-3; 9404-20; 9420; 9720-50; 9723-25; 9831</td></tr> <tr><td>K</td><td>4</td><td>1</td><td>9720-50; UVSPF</td></tr> <tr><td>R</td><td>4</td><td>1</td><td>9201-3; 9201-4; 9201-5; 9204-1; 9204-4; 9215; 9404-20; 9404-8; 9624</td></tr> <tr><td>R</td><td>4</td><td>1</td><td>9720-50; 9731; 9737; 9831</td></tr> </table>	F	4	1	9420; 9831; 9995	J	4	1	9401-3; 9404-20; 9420; 9720-50; 9723-25; 9831	K	4	1	9720-50; UVSPF	R	4	1	9201-3; 9201-4; 9201-5; 9204-1; 9204-4; 9215; 9404-20; 9404-8; 9624	R	4	1	9720-50; 9731; 9737; 9831	□
F	4	1	9420; 9831; 9995																					
J	4	1	9401-3; 9404-20; 9420; 9720-50; 9723-25; 9831																					
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R	4	1	9201-3; 9201-4; 9201-5; 9204-1; 9204-4; 9215; 9404-20; 9404-8; 9624																					
R	4	1	9720-50; 9731; 9737; 9831																					
CAS <u>000151</u> <u>50</u> <u>8</u> Trade Secret ☐ Chem. Name <u>POTASSIUM CYANIDE</u> Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☒ EHS EHS Name <u>POTASSIUM CYANIDE</u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	☐ Max. Daily Amount (code) ☐ Avg. Daily Amount (code) ☐ No. of Days On-Site (days) <u>0</u> <u>2</u> <u>0</u> <u>2</u> <u>3</u> <u>6</u> <u>5</u>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>D</td><td>4</td><td>1</td><td>9201-5N</td></tr> <tr><td>J</td><td>4</td><td>1</td><td>9706-2 / 1st Floor</td></tr> <tr><td>M</td><td>4</td><td>1</td><td>9204-3 / 1st Floor; 9401-4</td></tr> <tr><td>N</td><td>4</td><td>1</td><td>9202</td></tr> <tr><td>R</td><td>4</td><td>1</td><td>9995 / 1st Floor</td></tr> </table>	D	4	1	9201-5N	J	4	1	9706-2 / 1st Floor	M	4	1	9204-3 / 1st Floor; 9401-4	N	4	1	9202	R	4	1	9995 / 1st Floor	□
D	4	1	9201-5N																					
J	4	1	9706-2 / 1st Floor																					
M	4	1	9204-3 / 1st Floor; 9401-4																					
N	4	1	9202																					
R	4	1	9995 / 1st Floor																					
CAS <u>000074</u> <u>98</u> <u>6</u> Trade Secret ☐ Chem. Name <u>PROPANE</u> Check all that apply: ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☒ Gas ☐ EHS EHS Name <u> </u>	☒ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)	☐ Max. Daily Amount (code) ☐ Avg. Daily Amount (code) ☐ No. of Days On-Site (days) <u>0</u> <u>4</u> <u>0</u> <u>4</u> <u>3</u> <u>6</u> <u>5</u>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>L</td><td>4</td><td>2</td><td>9201-1; 9201-2; 9201-3; 9201-5; 9202; 9203; 9204-1; 9204-3; 9206; 9212</td></tr> <tr><td>L</td><td>4</td><td>2</td><td>9219; 9401-1; 9401-3; 9404-5; 9404-9; 9420; 9709; 9714 / TSD Garage</td></tr> <tr><td>L</td><td>4</td><td>2</td><td>9720-6; 9723-21; 9737; 9766; 9808; 9824-5; 9959; 9996; 9998</td></tr> </table>	L	4	2	9201-1; 9201-2; 9201-3; 9201-5; 9202; 9203; 9204-1; 9204-3; 9206; 9212	L	4	2	9219; 9401-1; 9401-3; 9404-5; 9404-9; 9420; 9709; 9714 / TSD Garage	L	4	2	9720-6; 9723-21; 9737; 9766; 9808; 9824-5; 9959; 9996; 9998	□								
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Name and official title of owner/operator OR owner/operator's authorized representative

Signature

Date signed

5/17/98**Optional Attachments**

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Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical	Facility Identification Name <u>US DOE Lockheed Martin Energy Systems Y-12 Plant*</u> Street <u>Bear Creek Road</u> City <u>Oak Ridge</u> County <u>Anderson</u> State <u>TN</u> Zip <u>37831</u> SIC Code <u>3499</u> Dun & Brad Number <u> </u> - <u> </u> - <u> </u>			Owner/Operator Name Name <u>U.S. Department of Energy</u> Phone <u>(423) 576-9850</u> Mail Address <u>P.O. Box 2001, Oak Ridge, TN 37831</u>		
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CAS <u>000057</u> <u>55</u> <u>6</u> Trade Secret ☐ Chem. Name <u>PROPYLENE GLYCOL</u> Check all that apply: ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)	Max. Daily Amount (code) <u>0</u> <u>4</u> Avg. Daily Amount (code) <u>0</u> <u>4</u> No. of Days On-Site (days) <u>3</u> <u>6</u> <u>5</u>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>C</td><td>4</td><td>1</td></tr> <tr><td>n</td><td>4</td><td>1</td></tr> <tr><td>T</td><td>4</td><td>1</td></tr> <tr><td>y</td><td>4</td><td>1</td></tr> <tr><td>e</td><td>4</td><td>1</td></tr> <tr><td>p</td><td>4</td><td>1</td></tr> <tr><td>m</td><td>4</td><td>1</td></tr> <tr><td>s</td><td>4</td><td>1</td></tr> <tr><td>e</td><td>4</td><td>1</td></tr> </table> 9201-5E; 9201-5N; 9206; 9212 / A Wing; 9212 / B-1 Wing; 9215 / M Wing 9401-3; 9720-2; 9767-4; 9805; 9805-1; 9998 9202 / 3rd Floor; 9712 9202 / 2nd Floor 9202 / 1st Floor	C	4	1	n	4	1	T	4	1	y	4	1	e	4	1	p	4	1	m	4	1	s	4	1	e	4	1	☐
C	4	1																													
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e	4	1																													
CAS <u>014808</u> <u>19</u> <u>8</u> Trade Secret ☐ Chem. Name <u>SILICA, CRYSTALLINE-QUARTZ</u> Z Check all that apply: ☐ Pure ☒ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	Max. Daily Amount (code) <u>0</u> <u>4</u> Avg. Daily Amount (code) <u>0</u> <u>4</u> No. of Days On-Site (days) <u>3</u> <u>6</u> <u>5</u>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>E</td><td>4</td><td>1</td></tr> <tr><td>F</td><td>4</td><td>1</td></tr> <tr><td>F</td><td>4</td><td>1</td></tr> <tr><td>F</td><td>4</td><td>1</td></tr> <tr><td>J</td><td>4</td><td>1</td></tr> <tr><td>K</td><td>4</td><td>1</td></tr> </table> 9404-5; 9720-15 9104-5; 9201-1; 9201-3; 9202; 9203; 9204-1; 9204-2E; 9204-3; 9204-4 9206; 9401-3; 9404-5; 9420; 9623; 9624; 9703-15; 9720-13; 9720-6; 9831 9983 9401-3; 9404-20; 9420; 9623; 9720-50; 9720-6; 9720-8; 9723-25; 9831 9712; 9720-50; 9720-52	E	4	1	F	4	1	F	4	1	F	4	1	J	4	1	K	4	1	☐									
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CAS <u>014808</u> <u>19</u> <u>8</u> Trade Secret ☐ Chem. Name <u>SILICA, CRYSTALLINE-QUARTZ</u> Z (cont'd) Check all that apply: ☐ Pure ☒ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	Max. Daily Amount (code) <u>0</u> <u>4</u> Avg. Daily Amount (code) <u>0</u> <u>4</u> No. of Days On-Site (days) <u>3</u> <u>6</u> <u>5</u>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>M</td><td>4</td><td>1</td></tr> <tr><td>N</td><td>4</td><td>1</td></tr> </table> 9204-3; 9995 9201-1; 9202; 9203; 9204-3; 9206; 9401-3; 9712; 9995	M	4	1	N	4	1	☐																					
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Signature

Date signed

2/17/98

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Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical	Facility Identification Name <u>US DOE Lockheed Martin Energy Systems Y-12 Plant*</u> Street <u>Bear Creek Road</u> City <u>Oak Ridge</u> County <u>Anderson</u> State <u>TN</u> Zip <u>37831</u> SIC Code <u>3499</u> Dun & Brad Number <u> </u> - <u> </u> - <u> </u> FOR OFFICIAL USE ONLY ID # <u> </u> Date Received <u> </u>		Owner/Operator Name Name <u>U.S. Department of Energy</u> Phone <u>(423) 576-9850</u> Mail Address <u>P.O. Box 2001, Oak Ridge, TN 37831</u> Emergency Contact Name <u>Plant Shift Superintendent</u> Title <u> </u> Phone <u>(423) 574-7172</u> 24 Hr. Phone <u>(423) 574-7172</u> Name <u>DOE Emergency Response Center</u> Title <u> </u> Phone <u>(423) 576-1005</u> 24 Hr. Phone <u>(423) 576-1005</u>	
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Important: Read all instructions before completing form

Reporting Period From January 1 to December 31, 1997

☐ Check if information below is identical to the information submitted last year.

Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Storage Codes and Locations (Non-Confidential) <i>Storage Locations</i>	Opt
CAS <u>007631905</u> Trade Secret ☐ Chem. Name <u>SODIUM BISULFITE</u> Check all that apply: ☐ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	☐ ☐ 5 Max. Daily Amount (code) ☐ ☐ 5 Avg. Daily Amount (code) ☐ ☐ 5 No. of Days On-Site (days)	C n T P y e e p m s e p s A 4 1 9417-8; 9417-9 E 4 1 9767-8 M 4 1 9202 / 2nd Floor / Room 215	☐
CAS <u>000497198</u> Trade Secret ☐ Chem. Name <u>SODIUM CARBONATE MONOHD</u> RATE Check all that apply: ☐ Pure ☒ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	☐ ☐ 4 Max. Daily Amount (code) ☐ ☐ 4 Avg. Daily Amount (code) ☐ ☐ 5 No. of Days On-Site (days)	D 4 1 9818 E 4 1 9206; 9215; 9818 F 4 1 9104-5; 9202; 9420; 9815 J 4 1 9206 M 4 1 9202; 9204-3; 9211; 9623; 9769; 9995; UVSPF N 4 1 9202; 9203; 9204-3; 9210; 9211; 9624; 9737; 9995; UVSPF	☐
CAS <u>000497198</u> Trade Secret ☐ Chem. Name <u>SODIUM CARBONATE MONOHD</u> RATE (cont'd) Check all that apply: ☐ Pure ☒ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	☐ ☐ 4 Max. Daily Amount (code) ☐ ☐ 4 Avg. Daily Amount (code) ☐ ☐ 5 No. of Days On-Site (days)	R 4 1 9204-4; 9215; 9720-2; 9739; 9995; UVSPF	☐

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 25, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Todd R. Butz, Y-12 Plant Manager

Name and official title of owner/operator OR owner/operator's authorized representative

Signature

 2/17/98
 Date signed
Optional Attachments

- ☐ I have attached a site plan
- ☐ I have attached a list of site coordinate abbreviations
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Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical	Facility Identification Name <u>US DOE Lockheed Martin Energy Systems Y-12 Plant*</u> Street <u>Bear Creek Road</u> City <u>Oak Ridge</u> County <u>Anderson</u> State <u>TN</u> Zip <u>37831</u> SIC Code <u>3499</u> Dun & Brad Number <u> </u> - <u> </u> - <u> </u> FOR OFFICIAL USE ONLY ID # <u> </u> Date Received <u> </u>		Owner/Operator Name Name <u>U.S. Department of Energy</u> Phone <u>(423) 576-9850</u> Mail Address <u>P.O. Box 2001, Oak Ridge, TN 37831</u> Emergency Contact Name <u>Plant Shift Superintendent</u> Title <u> </u> Phone <u>(423) 574-7172</u> 24 Hr. Phone <u>(423) 574-7172</u> Name <u>DOE Emergency Response Center</u> Title <u> </u> Phone <u>(423) 576-1005</u> 24 Hr. Phone <u>(423) 576-1005</u>	
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Reporting Period From January 1 to December 31, 1997

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Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Storage Codes and Locations (Non-Confidential) <i>Storage Locations</i>	O P T
CAS <u>007647145</u> Trade Secret ☐ Chem. Name <u>SODIUM CHLORIDE</u> Check all that apply: ☒ Pure ☐ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	☐ Max. Daily Amount (code) ☐ Avg. Daily Amount (code) ☒ No. of Days On-Site (days) <u>365</u>	C n t y e p P r e s B 4 1 9401-3 H 4 1 9993 N 4 1 9769; 9995; Union Valley Facility	☐
CAS <u>001310732</u> Trade Secret ☐ Chem. Name <u>SODIUM HYDROXIDE</u> Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	☐ Max. Daily Amount (code) ☐ Avg. Daily Amount (code) ☒ No. of Days On-Site (days) <u>365</u>	A 4 1 9204-2 C 4 1 9404-18; 9616-7 D 4 1 9201-2; 9201-5N; 9204-4; 9206; 9401-2; 9805 E 4 1 9206; 9401-2 F 4 1 West Tank Farm J 4 1 9401-3; 9720-2	☐
CAS <u>001310732</u> Trade Secret ☐ Chem. Name <u>SODIUM HYDROXIDE (cont'd)</u> Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>	☐ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	☐ Max. Daily Amount (code) ☐ Avg. Daily Amount (code) ☒ No. of Days On-Site (days) <u>365</u>	K 4 1 9720-13 M 4 1 9206; 9212; 9805 N 4 1 9104-3; 9109; 9115; 9116; 9119; 9201-1; 9201-2; 9201-3; 9201-5; 9204-2 N 4 1 9204-2E; 9204-3; 9207; 9401-3; 9616-7; 9769; 9818; 9995	☐

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Todd R. Butz, Y-12 Plant Manager

Name and official title of owner/operator OR owner/operator's authorized representative

Signature

Date signed

2/17/98

Optional Attachments

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Reporting Period From January 1 to December 31, 1997

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Chemical Description	Physical and Health Hazards <small>(check all that apply)</small>	Inventory	Storage Codes and Locations (Non-Confidential) <small>Storage Locations</small>	O P T																		
CAS <u>007681</u> <u>529</u> Trade Secret ☐ Chem. Name <u>SODIUM HYPOCHLORITE</u> <div style="display: flex; justify-content: space-between;"> <div>Check all that apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS</div> <div>EHS Name <u> </u></div> </div>	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	☐ ☐ 4 Max. Daily Amount (code) ☐ ☐ 4 Avg. Daily Amount (code) ☐ ☐ 3 ☐ 6 ☐ 5 No. of Days On-Site (days)	<div style="display: flex;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-family: monospace; font-size: 0.8em;">C n T y p e s</div> <div style="margin-left: 10px;"> <table border="1" style="border-collapse: collapse;"> <tr><td>E</td><td>4</td><td>1</td></tr> <tr><td>E</td><td>4</td><td>1</td></tr> <tr><td>E</td><td>4</td><td>1</td></tr> <tr><td>N</td><td>4</td><td>1</td></tr> <tr><td>R</td><td>4</td><td>1</td></tr> </table> </div> <div style="margin-left: 10px;"> 9409-10; 9409-12; 9409-13; 9409-15; 9409-17; 9409-18; 9409-19; 9409-2 9409-20; 9409-22; 9409-22E; 9409-23; 9409-24; 9409-26; 9409-29 9409-32; 9409-34; 9720-2 9202; 9731; 9769; 9995; 9998; Union Valley Facility 9201-5N; 9204-4 </div> </div>	E	4	1	E	4	1	E	4	1	N	4	1	R	4	1	☐			
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E	4	1																				
E	4	1																				
N	4	1																				
R	4	1																				
CAS <u>006834</u> <u>920</u> Trade Secret ☐ Chem. Name <u>SODIUM METASILICATE, ANH</u> <u>YDROUS</u> <div style="display: flex; justify-content: space-between;"> <div>Check all that apply: ☐ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS</div> <div>EHS Name <u> </u></div> </div>	☐ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	☐ ☐ 4 Max. Daily Amount (code) ☐ ☐ 4 Avg. Daily Amount (code) ☐ ☐ 3 ☐ 6 ☐ 5 No. of Days On-Site (days)	<div style="display: flex;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-family: monospace; font-size: 0.8em;">C n T y p e s</div> <div style="margin-left: 10px;"> <table border="1" style="border-collapse: collapse;"> <tr><td>C</td><td>4</td><td>1</td></tr> <tr><td>F</td><td>4</td><td>1</td></tr> <tr><td>I</td><td>4</td><td>1</td></tr> <tr><td>N</td><td>4</td><td>1</td></tr> <tr><td>R</td><td>4</td><td>1</td></tr> </table> </div> <div style="margin-left: 10px;"> 9401-2 / Plating Shop 9204-4; 9714; 9720-13 9401-2 / Plating Shop; 9623; 9720-2 9219; 9401-1; 9995; UVSPF 9201-1; 9201-4; 9210; 9215; 9404-20; 9709; 9995 </div> </div>	C	4	1	F	4	1	I	4	1	N	4	1	R	4	1	☐			
C	4	1																				
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N	4	1																				
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CAS <u>007664</u> <u>939</u> Trade Secret ☐ Chem. Name <u>SULFURIC ACID</u> <div style="display: flex; justify-content: space-between;"> <div>Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☒ EHS</div> <div>EHS Name <u>SULFURIC ACID</u></div> </div>	☐ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	☐ ☐ 5 Max. Daily Amount (code) ☐ ☐ 5 Avg. Daily Amount (code) ☐ ☐ 3 ☐ 6 ☐ 5 No. of Days On-Site (days)	<div style="display: flex;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-family: monospace; font-size: 0.8em;">A C E E M M</div> <div style="margin-left: 10px;"> <table border="1" style="border-collapse: collapse;"> <tr><td>A</td><td>4</td><td>1</td></tr> <tr><td>C</td><td>4</td><td>1</td></tr> <tr><td>E</td><td>4</td><td>1</td></tr> <tr><td>E</td><td>4</td><td>1</td></tr> <tr><td>M</td><td>4</td><td>1</td></tr> <tr><td>M</td><td>4</td><td>1</td></tr> </table> </div> <div style="margin-left: 10px;"> 9201-5 / Outside Tank; 9401-3 / Main Utilities Area (Boilers etc.) 9401-3; 9404-18; 9616-7 / West End Treatment Facility; 9616-9 9401-2 / Plating Shop / Annex; 9409-10; 9409-13; 9409-15; 9409-18 9409-2; 9409-22; 9409-23; 9409-26; 9409-29; 9409-32; 9409-4; 9720-2 9201-2; 9201-5N / 1st Floor / Room 133; 9204-2; 9204-2E / 3rd Floor 9204-4 / 2nd Floor; 9206 / 2nd Floor / Room 100E; 9207 </div> </div>	A	4	1	C	4	1	E	4	1	E	4	1	M	4	1	M	4	1	☐
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Date signed

2/17/98

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*This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.

Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical		Facility Identification Name US DOE Lockheed Martin Energy Systems Y-12 Plant* Street Bear Creek Road City Oak Ridge County Anderson State TN Zip 37831 Dun & Bradstreet Number SIC Code 3499 ID # Date Received		Emergency Contact Name Plant Shift Superintendent Title Phone (423) 574-7172 Name DOE Emergency Response Center Title Phone (423) 576-1005 24 Hr. Phone (423) 574-7172 24 Hr. Phone (423) 576-1005	
Owner/Operator Name Name U.S. Department of Energy P.O. Box 2001, Oak Ridge, TN 37831 Mail Address		Reporting Period From January 1 to December 31, 1997		Important: Read all instructions before completing form	

Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Storage Codes and Locations (Non-Confidential) Storage Locations C u n d e r t a i l e d p l a c e s
CAS 0000057136 Chem. Name UREA (cont'd) EHS Name that apply: Pure ☐ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS ☐	Fire ☒ Sudden Release ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic) ☒	Max. Daily 0 Amount (code) 5 Avg. Daily 0 Amount (code) 4 No. of Days 6 On-Site (days) 5	R 4 4 1 9720-50
CAS ☐ Chem. Name ☐ EHS Name that apply: Pure ☐ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS ☐	Fire ☐ Sudden Release ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic) ☐	Max. Daily ☐ Amount (code) ☐ Avg. Daily ☐ Amount (code) ☐ No. of Days ☐ On-Site (days) ☐	☐
CAS ☐ Chem. Name ☐ EHS Name that apply: Pure ☐ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS ☐	Fire ☐ Sudden Release ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic) ☐	Max. Daily ☐ Amount (code) ☐ Avg. Daily ☐ Amount (code) ☐ No. of Days ☐ On-Site (days) ☐	☐

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