

Y-12

Y/TS-1643

OAK RIDGE Y-12 PLANT

MARTIN MARIETTA

EMERGENCY PLANNING AND COMMUNITY

RIGHT-TO-KNOW ACT

SECTION 312 TIER TWO REPORT FORMS

R. A. Evans
K. J. Martin

Environmental Compliance
Organization

February 1997

MASTER

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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

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MANAGED BY
MARTIN MARIETTA ENERGY SYSTEMS, INC.
FOR THE UNITED STATES
DEPARTMENT OF ENERGY
UCN-13672 (2 10-00)

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EMERGENCY PLANNING AND COMMUNITY
RIGHT-TO-KNOW ACT
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Tier Two EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY		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 #		Name Plant Shift Superintendent	
Date Received				Phone (423) 574 7172	
				Title	
				24 Hr Phone (423) 574 7172	
				Name DOE Emergency Response Center	
				Phone (423) 576 1005	
				Title	
				24 Hr Phone (423) 576 1005	

Important: Read all instructions before completing form		Reporting Period From January 1 to December 31, 19 96		☐ Check if information below is identical to the information submitted last year.	
Chemical Description		Physical and Health Hazards		Inventory	
CAS 0000064197 Trade Secret		☒ 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	
Chem. Name ACETIC ACID		☒ Pure ☐ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS		Container Type Temperature Pressure C 4 1 9616-7 / West End Treatment M 4 1 9201-5 / 2nd Floor / Arc Melt M 4 1 9202 / 1st Floor / Room 178 M 4 1 9203 / 1st floor / Room 50 M 4 1 9204-2E / 3rd Floor / Room 316 M 4 1 9204-3 / 1st Floor / Room 109	
CAS 0000064197 Trade Secret		☒ 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	
Chem. Name ACETIC ACID (cont'd)		☒ Pure ☐ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS		Container Type Temperature Pressure M 4 1 9206 / 1st Floor; 9212 / Room 1014 M 4 1 9401-2 / Surface Coating M 4 1 9616-7 / Laboratory M 4 1 9624 / WET Lab.; 9731 / 1st Floor M 4 1 9818 N 4 1 9417-8	
CAS 0007440371 Trade Secret		☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)		Max. Daily Amount (code) 05 Avg. Daily Amount (code) 04 No. of Days On-Site (days) 365	
Chem. Name ARGON		☒ Pure ☐ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS		Container Type Temperature Pressure A 7 2 9977-1 / Gas Storage L 4 2 9201-3 L 4 2 9201-5 / 2nd Floor / Arc Melt; 9202 L 4 2 9203; 9204-1 / Maintenance Shop L 4 2 9204-2 / Maintenance L 4 2 9204-2E / 2nd Floor; 9204-3; 9206	

Certification (Read and sign after completing all sections)		Optional Attachments	
I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 23, 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.		☐ 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	
Name and official title of owner/operator OR owner/operator's authorized representative Todd R. Butz, Y-12 Plant Manager		Date signed 2/25/97	

Revised June 1990

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 SIC Code 3499 Dun & Brad Number FOR OFFICIAL USE ONLY ID # Date Received		Owner/Operator Name Name U.S. Department of Energy Phone (423) 576 9850 Mail Address P.O. Box 2001, Oak Ridge, TN 37831 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		Check if information below is identical to the information submitted last year ☐	
Important: Read all instructions before completing form				Reporting Period From January 1 to December 31, 19 96			
Chemical Description		Physical and Health Hazards (check all that apply)		Inventory		Storage Codes and Locations (Non-Confidential) Storage Locations	
CAS 007440371 Trade Secret Chem. Name ARGON (cont'd) Check all that apply: Pure ☐ Mix ☐ Solid ☐ Liquid ☒ Gas ☒ EHS EHS Name		Fire ☐ Sudden Release of Pressure ☒ Reactivity Immediate (acute) ☐ Delayed (chronic) ☐		Max. Daily Amount (code) 05 Avg. Daily Amount (code) 04 No. of Days On-Site (days) 365		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	
CAS 007440371 Trade Secret Chem. Name ARGON (cont'd) Check all that apply: Pure ☐ Mix ☐ Solid ☐ Liquid ☒ Gas ☒ EHS EHS Name		Fire ☐ Sudden Release of Pressure ☒ Reactivity Immediate (acute) ☐ Delayed (chronic) ☐		Max. Daily Amount (code) 05 Avg. Daily Amount (code) 04 No. of Days On-Site (days) 365		9616-7 / West End Treatment 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	
CAS 007440371 Trade Secret Chem. Name ARGON (cont'd) Check all that apply: Pure ☐ Mix ☐ Solid ☐ Liquid ☒ Gas ☒ EHS EHS Name		Fire ☐ Sudden Release of Pressure ☒ Reactivity Immediate (acute) ☐ Delayed (chronic) ☐		Max. Daily Amount (code) 05 Avg. Daily Amount (code) 04 No. of Days On-Site (days) 365		9731 / 1st Floor / Prototype Powder 9769; 9995; Union Valley Facility	
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Name and official title of owner/operator OR owner/operator's authorized representative Todd R. Butz, Y-12 Plant Manager				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.

Revised June 1990

Facility Identification		Reporting Period		Inventory		Physical and Health Hazards		Chemical Description		Storage Codes and Locations (Non-Confidential)		Optional			
Tier Two EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY Specific Information by Chemical		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 & Bradstreet Number FOR OFFICIAL USE ONLY ID # Date Received		From January 1 to December 31, 96 Check if information below is identical to the information submitted last year		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days)		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		CAS 007440417 Trade Secret Chem. Name BERYLLIUM & COMPOUNDS, AS BE Check all that apply: Pure Mix Solid Liquid Gas EHS EHS Name		9201-5 / 1st Floor / Annex 9203A / 1st Floor 9202 / 2nd Floor / Room 216 9203A / 1st Floor 9203A / 1st Floor / Room 102A		Optional	
Owner/Operator Name Name U.S. Department of Energy Phone (423) 576 9850 Mail Address P.O. Box 2001, Oak Ridge, TN 37831 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		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 & Bradstreet Number FOR OFFICIAL USE ONLY ID # Date Received		From January 1 to December 31, 96 Check if information below is identical to the information submitted last year		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days)		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		CAS 010043524 Trade Secret Chem. Name CALCIUM CHLORIDE Check all that apply: Pure Mix Solid Liquid Gas EHS EHS Name		9201-1; 9201-4; 9201-5 9204-3 / 1st Floor / Room 101 9204-3 / 1st Floor / Room 109 9738 / Foundry 9404-20		Optional	
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 & Bradstreet Number FOR OFFICIAL USE ONLY ID # Date Received		From January 1 to December 31, 96 Check if information below is identical to the information submitted last year		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days)		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		CAS 010043524 Trade Secret Chem. Name CALCIUM CHLORIDE (cont'd) Check all that apply: Pure Mix Solid Liquid Gas EHS EHS Name		9219 / Grounds and Roads Work Area 9831 9202; 9769 / 3rd Floor / Room 308 9203 9219 / Grounds and Roads Work Area 9995; Union Valley Facility		Optional			
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 23, 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. Signature: Todd R. Butz, Y-12 Plant Manager Date signed: 2/25/97 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			

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CAS 0 1 0 0 4 3 5 2 4 Trade Secret Chem. Name CALCIUM CHLORIDE (cont'd) Check all that apply: Pure Mix Solid Liquid Gas EHS EHS Name		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic) X Max. Daily Amount (code) 0 4 Avg. Daily Amount (code) 0 4 No. of Days On-Site (days) 3 6 5	
CAS 0 0 1 3 0 5 6 2 0 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) X X Max. Daily Amount (code) 0 4 Avg. Daily Amount (code) 0 4 No. of Days On-Site (days) 3 6 5	
CAS 0 0 1 3 0 5 6 2 0 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) X X Max. Daily Amount (code) 0 4 Avg. Daily Amount (code) 0 4 No. of Days On-Site (days) 3 6 5	
Storage Codes and Locations (Non-Confidential) Storage Locations		Optional	
Container Type Temperature Pressure R 4 1 9720 50 D 4 1 9983-AL F 4 1 9201-2; 9720-50 H 4 1 9616-9; 9623 J 4 1 9616-7 / West End Treatment M 4 1 9204-2 / 2nd floor / ETA/DAP Area M 4 1 Union Valley facility		9202; 9624 / WETF Lab.; 9995	
Certification (Read and sign after completing all sections)		Optional Attachments	
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CAS <u>000744004400</u> Trade Secret ☐ Chem. Name <u>CARBON (GRAPHITE, SYNTHETIC)</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>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Container</th> <th>Temperature</th> <th>Pressure</th> <th>Storage Locations</th> </tr> <tr> <td>C</td> <td>4</td> <td>1</td> <td>9616-7 / Groundwater Treatment</td> </tr> <tr> <td>D</td> <td>4</td> <td>1</td> <td>9204-2; 9206; 9404-9; 9720-19A</td> </tr> <tr> <td>D</td> <td>4</td> <td>1</td> <td>9720-27; 9998 / H-1 Foundry</td> </tr> <tr> <td>E</td> <td>4</td> <td>1</td> <td>9201-5; 9201-5N; 9204-2E</td> </tr> <tr> <td>F</td> <td>4</td> <td>1</td> <td>9201-5; 9206; 9212; 9215; 9404-9</td> </tr> <tr> <td>F</td> <td>4</td> <td>1</td> <td>9720-5</td> </tr> </table>		Container	Temperature	Pressure	Storage Locations	C	4	1	9616-7 / Groundwater Treatment	D	4	1	9204-2; 9206; 9404-9; 9720-19A	D	4	1	9720-27; 9998 / H-1 Foundry	E	4	1	9201-5; 9201-5N; 9204-2E	F	4	1	9201-5; 9206; 9212; 9215; 9404-9	F	4	1	9720-5
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CAS <u>0000124389</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)		☐ Max. Daily Amount (code) <u>04</u> ☐ Avg. Daily Amount (code) <u>04</u> ☐ No. of Days On-Site (days) <u>365</u>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Container</th> <th>Temperature</th> <th>Pressure</th> <th>Storage Locations</th> </tr> <tr> <td>A</td> <td>4</td> <td>2</td> <td>9710-2 / Outside Tank</td> </tr> <tr> <td>L</td> <td>4</td> <td>2</td> <td>9204-2E / 2nd Floor; 9709; 9769</td> </tr> <tr> <td>L</td> <td>4</td> <td>2</td> <td>9995 / Basement Floor</td> </tr> <tr> <td>P</td> <td>4</td> <td>2</td> <td>9710-2 / Outside Tanker</td> </tr> </table>		Container	Temperature	Pressure	Storage Locations	A	4	2	9710-2 / Outside Tank	L	4	2	9204-2E / 2nd Floor; 9709; 9769	L	4	2	9995 / Basement Floor	P	4	2	9710-2 / Outside Tanker								
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Chemical Description CAS <u>061790532</u> Trade Secret ☐ Chem. Name <u>DIATOMACEOUS EARTH</u> Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name <u> </u>		Physical and Health Hazards (check all that apply) Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	
Inventory Max. Daily Amount (code) <u>04</u> Avg. Daily Amount (code) <u>03</u> No. of Days On-Site (days) <u>365</u>		Storage Codes and Locations (Non-Confidential) Container Type <u> </u> Temperature <u> </u> Pressure <u> </u> Storage Locations 9206 9201-5; 9204-2 9201-1 / Oil House; 9202 9212 / 8 1 Wing; 9212 / C-1 Wing 9212 / E Wing; 9212 / Reduction 9616-9; 9720-2	
CAS <u>061790532</u> Trade Secret ☐ Chem. Name <u>DIATOMACEOUS EARTH (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)	
CAS <u> </u> Trade Secret ☐ Chem. Name <u>DIESEL FUEL NO. 2</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)	
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Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Storage Codes and Locations (Non-Confidential) Storage Locations
CAS 0010028225 Trade Secret Chem. Name FERRIC SULFATE Check all that apply: Pure ☐ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name	Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic) ☐	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-Site (days)	9616-7 / West End Treatment 9623 / CFCF - Laboratory 9201-4 / 1st Floor 9202 9624; 9731 / 2nd Floor
CAS 0000076131 Trade Secret Chem. Name FREON 113 Check all that apply: Pure ☐ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name	Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic) ☐	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-Site (days)	9215 9201-2; 9201-5; 9206 / West Dock 9212 / E Wing; 9720-2 9201-1; 9202; 9204-3 / Basement 9709; 9712; 9720-2 9202; 9207 / 5th Floor
CAS 0000076131 Trade Secret Chem. Name FREON 113 (cont'd) Check all that apply: Pure ☐ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name	Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic) ☐	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-Site (days)	9207 / 4th Floor; 9769 / 3rd Floor 9995 / Basement Floor 9995 / 1st Floor 9204-1 / 1st Floor / Red Shop 9203
Certification (Read and sign after completing all sections)		Optional Attachments	
I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 23, 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.		☐ 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	
Todd R. Butz, Y-12 Plant Manager Name and official title of owner/operator OR owner/operator's authorized representative		Date signed 2/25/97	

Revised June 1990

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 _____		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 _____ 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>		Check if information below is identical to the information submitted last year. ☐	
Important: Read all instructions before completing form		Reporting Period From January 1 to December 31, 19 <u>96</u>	
Chemical Description		Physical and Health Hazards (check all that apply)	
CAS <u>000075718</u> Trade Secret ☐ Chem. Name <u>FREON 12</u> Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name _____		Fire ☐ Sudden Release of Pressure ☒ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic) ☒	
CAS <u>000075456</u> Trade Secret ☐ Chem. Name <u>FREON 22</u> Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name _____		Fire ☐ Sudden Release of Pressure ☒ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic) ☒	
CAS <u>000075694</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) ☒	
Inventory		Storage Codes and Locations (Non-Confidential) Storage Locations	
Max. Daily Amount (code) <u>04</u> Avg. Daily Amount (code) <u>04</u> No. of Days On-Site (days) <u>365</u>		9201-1; 9201-3; 9201-5N 9204-1 / Dock 119; 9204-2E; 9204-4 9712; 9714 / ISO Garage; 9737 9808 / Refrigeration Shop; 9959 9981	
Max. Daily Amount (code) <u>04</u> Avg. Daily Amount (code) <u>03</u> No. of Days On-Site (days) <u>365</u>		9203; 9737 9201-3; 9208; 9420; 9720-8; 9737 9808 / Refrigeration Shop; 9959	
Max. Daily Amount (code) <u>04</u> Avg. Daily Amount (code) <u>04</u> No. of Days On-Site (days) <u>365</u>		9201-5E 9720-2 / Bay 40 Oil storage 9203 / 1st floor / Room 45 - IEM	
Optional		Optional Attachments	
I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 23, 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.		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 ☐	
Certification (Read and sign after completing all sections)		Date signed <u>2/25/97</u>	
Name and official title of owner/operator OR owner/operator's authorized representative <u>Todd R. Butz, Y-12 Plant Manager</u>		Signature <u>[Signature]</u>	

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 FOR OFFICIAL USE ONLY ID # Date Received		Owner/Operator Name Name U.S. Department of Energy Phone (423) 576 9850 Mail Address P.O. Box 2001, Oak Ridge, TN 37831 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, 19 96 Check if information below is identical to the information submitted last year ☐										
Chemical Description CAS Chem. Name GASOLINE, UNLEADED Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name		Physical and Health Hazards (check all that apply) Fire ☒ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic)		Inventory <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>0</td><td>5</td><td>Max. Daily Amount (code)</td> </tr> <tr> <td>0</td><td>5</td><td>Avg. Daily Amount (code)</td> </tr> <tr> <td>3</td><td>6</td><td>No. of Days On-Site (days)</td> </tr> </table>		0	5	Max. Daily Amount (code)	0	5	Avg. Daily Amount (code)	3	6	No. of Days On-Site (days)
0	5	Max. Daily Amount (code)												
0	5	Avg. Daily Amount (code)												
3	6	No. of Days On-Site (days)												
CAS Chem. Name GASOLINE, UNLEADED (cont'd) Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name		Fire ☒ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic)		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>0</td><td>5</td><td>Max. Daily Amount (code)</td> </tr> <tr> <td>0</td><td>5</td><td>Avg. Daily Amount (code)</td> </tr> <tr> <td>3</td><td>6</td><td>No. of Days On-Site (days)</td> </tr> </table>		0	5	Max. Daily Amount (code)	0	5	Avg. Daily Amount (code)	3	6	No. of Days On-Site (days)
0	5	Max. Daily Amount (code)												
0	5	Avg. Daily Amount (code)												
3	6	No. of Days On-Site (days)												
CAS 007440597 Chem. Name HELIUM Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name		Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>0</td><td>4</td><td>Max. Daily Amount (code)</td> </tr> <tr> <td>0</td><td>3</td><td>Avg. Daily Amount (code)</td> </tr> <tr> <td>3</td><td>6</td><td>No. of Days On-Site (days)</td> </tr> </table>		0	4	Max. Daily Amount (code)	0	3	Avg. Daily Amount (code)	3	6	No. of Days On-Site (days)
0	4	Max. Daily Amount (code)												
0	3	Avg. Daily Amount (code)												
3	6	No. of Days On-Site (days)												
Storage Codes and Locations (Non-Confidential) Storage Locations 9204-3 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		Container Type A 4 1 B 4 1 B 4 1 D 4 1 F 4 1 F 4 1 F 4 1 F 4 1 P 4 1		Optional 9714; 9720-41; 9720-6; 9808; 9828-6 9983; Sanitary Landfill #6 West Tank Farm 9712										
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 23, 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		Date signed 2/25/97										

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		Title	
FOR OFFICIAL USE ONLY		ID #		24 Hr Phone (423) 576 7172	
Date Received		Emergency Contact		Name Plant Shift Superintendent	
		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, 19 96

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)	Optional
CAS 007440597 Trade Secret	Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)	Max. Daily Amount (code) 04 Avg. Daily Amount (code) 03 No. of Days On-Site (days) 365	Pressure Temperature Container	Storage Locations
Chem. Name HELIUM (cont'd)				
Check all that apply: Pure Mix Solid Liquid Gas EHS				
EHS Name				
CAS 007647010 Trade Secret	Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)	Max. Daily Amount (code) 05 Avg. Daily Amount (code) 04 No. of Days On-Site (days) 365		
Chem. Name HYDROCHLORIC ACID				
Check all that apply: Pure Mix Solid Liquid Gas EHS				
EHS Name				
CAS 007647010 Trade Secret	Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)	Max. Daily Amount (code) 05 Avg. Daily Amount (code) 04 No. of Days On-Site (days) 365		
Chem. Name HYDROCHLORIC ACID (cont'd)				
Check all that apply: Pure Mix Solid Liquid Gas EHS				
EHS Name				

Certification (Read and sign after completing all sections)		Optional Attachments	
I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 23, 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.		☐ 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	
Name and official title of owner/operator OR owner/operator's authorized representative Todd R. Butz, Y-12 Plant Manager		Date signed 2/25/97	

Facility Identification		Owner/Operator Name	
Tier Two EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY		Name U.S. Department of Energy Phone (423) 576 9850 Mail Address P.O. Box 2001, Oak Ridge, TN 37831	
Name US Doe Lockheed Martin Energy Systems Y-12 Plant* Street Bear Creek Road City Oak Ridge State TN Zip 37831 SIC Code 3499 Dun & Brad Number Anderson County		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	
Specific Information by Chemical FOR OFFICIAL USE ONLY ID # _____ Date Received _____		Important: Read all instructions before completing form Reporting Period From January 1 to December 31, 19 96 ☐ 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
CAS 00766439 Trade Secret Chem. Name HYDROGEN FLUORIDE Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☒ Liquid ☒ Gas EHS EHS Name HYDROGEN FLUORIDE	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	Container Type Temperature L 4 1 9720-40 H 4 1 9201-5N; 9204-3; 9204-4 M 4 1 9212 / E Wing / Room 1021; 9720-2 N 4 1 9202; 9204-2E / 3rd Floor; 9204-3 N 4 1 9995; Union Valley Facility
CAS 00006763 Trade Secret Chem. Name ISOPROPYL ALCOHOL Check all that apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas EHS EHS Name	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	Container Type Temperature F 4 1 9201-1; 9201-5; 9201-5N; 9204-2 F 4 1 9204-2E / 3rd Floor / Room 309 F 4 1 9208; 9720-8 M 4 1 9103; 9202; 9206 M 4 1 9616-7 / Laboratory; 9720-2; 9720-8 M 4 1 9737
CAS 00006763 Trade Secret Chem. Name ISOPROPYL ALCOHOL (cont'd) Check all that apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas EHS EHS Name	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	Container Type Temperature N 4 1 9204-2E / 3rd Floor / Room 311 N 4 1 9207; 9212 / 8-1 Wing N 4 1 9212 / E Wing; 9401-1; 9720-2 N 4 1 9723-25; 9737; 9738 N 4 1 Union Valley Facility
Certification (Read and sign after completing all sections)		Optional Attachments	
I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 23, 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.		☐ 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	
Name and official title of owner/operator OR owner/operator's authorized representative Todd R. Butz, Y-12 Plant Manager		Date signed 2/25/97	

Revised June 1990

Facility Identification		Owner/Operator Name	
Tier Two EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY 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 FOR OFFICIAL USE ONLY ID # Date Received		Name U.S. Department of Energy Phone (423) 576 9850 Mail Address P.O. Box 2001, Oak Ridge, TN 37831 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, 96 ☐ 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
CAS 007447418 Trade Secret Chem. Name LITHIUM CHLORIDE Check all that apply: Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name	Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	Max. Daily Amount (code) 04 Avg. Daily Amount (code) 03 No. of Days On-Site (days) 365	Container Type Pressure 1 9204-2 4 1 9202; 9204-2E; 9204-4; 9720-2 E 4 1 M 4 1
CAS 013587161 Trade Secret Chem. Name LITHIUM DEUTERIDE Check all that apply: Pure ☐ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name	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	Container Type Pressure 1 9201-5; 9204-2; 9720-46 4 1 F 4 1
CAS 007580678 Trade Secret Chem. Name LITHIUM HYDRIDE Check all that apply: Pure ☐ Mix ☐ Solid ☐ Liquid ☐ Gas ☒ EHS EHS Name	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	Container Type Pressure 1 9201-5; 9204-2; 9720-46 4 1 F 4 1 F 4 1 9731 / 1st Floor / Prototype Powder
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 23, 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 2/25/97			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

Revised June 1990

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

Important: Read all instructions before completing form		Reporting Period From January 1 to December 31, 19 96	
Chemical Description	Physical and Health Hazards (check all that apply)	Inventory	Storage Codes and Locations (Non-Confidential) Storage Locations
CAS 001310652 Trade Secret Chem. Name LITHIUM HYDROXIDE	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	Container Type A4 Pressure 1 9204-2; West Tank Farm 9204-2
CAS 001309484 Trade Secret Chem. Name MAGNESIUM OXIDE	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	Container Type D4 Pressure 1 9204-2; 9404-2 9204-2 9204-3 9202; 9203; 9204-3
CAS 007439976 Trade Secret Chem. Name MERCURY METAL	Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic) ☒	Max. Daily Amount (code) 06 Avg. Daily Amount (code) 06 No. of Days On-Site (days) 365	Container Type M4 Pressure 1 9202; 9203; 9710-2; 9720-26 9201-2; 9208; 9720-8 9737 / 2nd Floor 9212 / E Wing

Certification (Read and sign after completing all sections)		Optional Attachments
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Name and official title of owner/operator OR owner/operator's authorized representative		☐ I have attached a list of site coordinate abbreviations
Todd R. Butz, Y-12 Plant Manager		☐ I have attached a description of dikes and other safeguard measures
Date signed 2/25/97		

Tier Two EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY Specific Information by Chemical		Facility Identification Name US Doe Lockhead Martin Energy Systems Y-12 Plant* Street Bear Creek Road City Oak Ridge State TN Zip 37831 SIC Code 3499 Dun & Brad Number FOR OFFICIAL USE ONLY ID # Date Received		Owner/Operator Name Name U.S. Department of Energy Phone (423) 576 9850 Mail Address P.O. Box 2001, Oak Ridge, TN 37831 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		Check if information below is identical to the information submitted last year ☐	
Important: Read all instructions before completing form		Reporting Period From January 1 to December 31, 19 96					
Chemical Description		Physical and Health Hazards (check all that apply)		Inventory			
CAS 0000067561 Trade Secret Chem. Name METHANOL Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name		☒ 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			
CAS 0000067561 Trade Secret Chem. Name METHANOL (cont'd) Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name		☒ 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			
CAS 0007697372 Trade Secret Chem. Name NITRIC ACID Check all that apply: ☐ Pure ☒ Mix ☐ Solid ☐ Liquid ☐ Gas ☒ EHS EHS Name		☒ 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			
Storage Codes and Locations (Non-Confidential) Storage Locations		Container Type D 4 1 9720-2; 9767-13; 9767-4 F 4 1 9201-1; 9201-3; 9201-5; 9201-5E F 4 1 9204-2; 9204-2E; 9204-4; 9212; 9215 F 4 1 9404-16; 9723-25; 9738 F 4 2 9201-5N; 9212; 9215 M 4 1 9201-5; 9202; 9203; 9204-2; 9204-4		Pressure 9207; 9215; 9720-2; 9737; 9769 9995; Union Valley Facility 9201-5E; 9208; 9401-3; 9720-2 9723-25 9723-25 9720-2			
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							

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 23, 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.

Signature Todd R. Butz Date signed 2/25/97

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

* This report covers only the activities of Lockhead Martin Energy Research Corporation, not its subsidiaries.

Revised June 1990

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 SIC Code 3499		Owner/Operator Name Name U.S. Department of Energy Phone (423) 576 9850 Mail Address P.O. Box 2001, Oak Ridge, TN 37831	
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		Check if information below is identical to the information submitted last year ☐	

Important: Read all instructions before completing form		Reporting Period	From January 1 to December 31, 19 96
Chemical Description	Physical and Health Hazards	Inventory	Storage Codes and Locations (Non-Confidential)
CAS 007697372 Trade Secret Chem. Name NITRIC ACID (cont'd) Check all that apply: Pure ☐ Mix ☒ Solid ☐ Liquid ☐ Gas ☒ EHS EHS Name NITRIC ACID	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	Container Type Temperature Pressure M 4 1 9202; 9203 M 4 1 9204-2E / 3rd Floor / Room 316 M 4 1 9204-3 / 1st Floor M 4 1 9204-4 / 2nd Floor / Plating Shop M 4 1 9207 / 1st Floor / Room 7-1006 M 4 1 9212 / E Wing / Room 1021
CAS 007697372 Trade Secret Chem. Name NITRIC ACID (cont'd) Check all that apply: Pure ☐ Mix ☒ Solid ☐ Liquid ☐ Gas ☒ EHS EHS Name NITRIC ACID	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	Container Type Temperature Pressure M 4 1 9401-2 / Plating Shop / Annex M 4 1 9616-7; 9731; 9769; 9995 M 4 1 Union Valley Facility N 4 1 9769; 9995
CAS 00769727379 Trade Secret Chem. Name NITROGEN Check all that apply: Pure ☒ Mix ☐ Solid ☐ Liquid ☒ Gas ☐ EHS EHS Name	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	Container Type Temperature Pressure A 7 2 9977-1 L 4 2 9201-2 / Weld Shops; 9201-3 L 4 2 9204-2E; 9401-1; 9401-5; 9420; 9735 L 4 2 9737; 9738; 9769; 9808; 9995 L 7 2 9204-3; 9206; 9212

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 23, 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	Date signed 2/25/97
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 State: TN Zip: 37831 SIC Code: 3499 County: Anderson Dun & Brad Number: _____ FOR OFFICIAL USE ONLY ID #: _____ Date Received: _____		Owner/Operator Name Name: U.S. Department of Energy Phone: (423) 576 9850 Mail Address: P.O. Box 2001, Oak Ridge, TN 37831 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, 19 96 ☐ Check if information below is identical to the information submitted last year			
Chemical Description		Physical and Health Hazards (check all that apply)	
CAS: 007782447 Trade Secret ☐ Chem. Name: OXYGEN Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☒ Liquid ☒ Gas ☐ EHS EHS Name: _____		Fire: ☒ Sudden Release of Pressure: ☒ Reactivity: ☐ Immediate (acute): ☐ Delayed (chronic): ☐	
CAS: _____ Trade Secret ☐ Chem. Name: PETROLEUM OIL Check all that apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name: _____		Fire: ☐ Sudden Release of Pressure: ☐ Reactivity: ☒ Immediate (acute): ☒ Delayed (chronic): ☒	
CAS: _____ Trade Secret ☐ Chem. Name: PETROLEUM OIL (cont'd) Check all that apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name: _____		Fire: ☐ Sudden Release of Pressure: ☐ Reactivity: ☒ Immediate (acute): ☒ Delayed (chronic): ☒	
Inventory		Storage Codes and Locations (Non-Confidential) Storage Locations	
Max. Daily Amount (code): 04 Avg. Daily Amount (code): 04 No. of Days On-Site (days): 365		9223-25; 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	
Max. Daily Amount (code): 04 Avg. Daily Amount (code): 04 No. of Days On-Site (days): 365		9201-3; 9204-2 / PV Room 9201-1; 9201-5; 9201-5E; 9201-5N 9201-5H; 9204-2; 9204-2E; 9204-4 9206; 9208; 9211; 9212 / A Wing 9212 / E Wing; 9215 / Basement 9215 / M Wing; 9401-2; 9709; 9712	
Max. Daily Amount (code): 04 Avg. Daily Amount (code): 04 No. of Days On-Site (days): 365		9714 / TSD Garage; 9720-2; 9727-4 9767-1; 9767-11; 9767-13; 9767-3 9808; 9998 9714 / TSD Garage; 9720-2; 9977-1 9201-1; 9201-3; 9201-5; 9204-1 9204-2; 9204-2E; 9207; 9208	
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 23, 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. Signature: <u>Todd R. Butz</u> Date signed: <u>2/25/97</u> Name and official title of owner/operator OR owner/operator's authorized representative: <u>Todd R. Butz, Y-12 Plant Manager</u> Name and official title of owner/operator OR owner/operator's authorized representative: _____			

[illegible]

Revised June 1990

Facility Identification		Owner/Operator Name	
Tier Two EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY Specific Information by Chemical		Name U.S. Department of Energy Phone (423) 576 9850 Mail Address P.O. Box 2001, Oak Ridge, TN 37831	
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 & Bradstreet 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, 96 ☐ Check if information below is identical to the information submitted last year	
Chemical Description	Physical and Health Hazards (check all that apply) Fire ☒ Sudden Release of Pressure ☒ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)	Inventory	Storage Codes and Locations (Non-Confidential) Storage Locations
CAS 0000074986 Trade Secret Chem. Name PROPANE (cont'd) Check all that apply: ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name	☒ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-Site (days)	Container Type Temperature Pressure 1 4 2 9996; 9998
CAS 0000057556 Trade Secret Chem. Name PROPYLENE GLYCOL Check all that apply: ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)	04 Max. Daily Amount (code) 03 Avg. Daily Amount (code) 365 No. of Days On-Site (days)	D 4 1 9201-5E; 9201-5N; 9206 D 4 1 9212 / A Wing; 9212 / B-1 Wing D 4 1 9215 / M Wing; 9401-3; 9720-2 D 4 1 9767-4; 9805; 9805-1; 9998 F 4 1 9202 / 3rd Floor; 9712 M 4 1 9202 / 2nd Floor
CAS 0000057556 Trade Secret Chem. Name PROPYLENE GLYCOL (cont'd) Check all that apply: ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)	04 Max. Daily Amount (code) 03 Avg. Daily Amount (code) 365 No. of Days On-Site (days)	N 4 1 9202 / 1st Floor
Certification (Read and sign after completing all sections)		Optional Attachments	
I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 23, 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.		☐ 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	
Todd R. Butz, Y-12 Plant Manager Name and official title of owner/operator OR owner/operator's authorized representative		2/25/97 Date signed	

Facility Identification		Owner/Operator Name	
Tier Two EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY Specific Information by Chemical		Name U.S. Department of Energy Phone (423) 576 9850 Mail Address P.O. Box 2001, Oak Ridge, TN 37831	
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 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, 19 96 ☐ 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
CAS 007631905 Trade Secret Chem. Name SODIUM BISULFITE Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name	Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	Max. Daily Amount (code) 04 Avg. Daily Amount (code) 03 No. of Days On-Site (days) 365	Container Type Temperature Pressure A 4 1 9417-8; 9417-9 E 4 1 9767-8 M 4 1 9202 / 2nd Floor / Room 215
CAS 007644714 Trade Secret Chem. Name SODIUM CHLORIDE Check all that apply: ☒ Pure ☐ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name	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	Container Type Temperature Pressure B 4 1 9401-3 H 4 1 9993 N 4 1 9769; 9995; Union Valley Facility
CAS 001310732 Trade Secret Chem. Name SODIUM HYDROXIDE Check all that apply: ☒ Pure ☐ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name	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	Container Type Temperature Pressure A 4 1 9204-2 C 4 1 9404-18; 9616-7 D 4 1 9201-2; 9201-5N; 9204-4; 9206 D 4 1 9401-2; 9805 E 4 1 9206; 9401-2 F 4 1 West Tank Farm
Certification (read and sign after completing all sections)		Optional Attachments	
I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 23, 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.		☐ 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	
Todd R. Buttz, Y-12 Plant Manager Name and official title of owner/operator OR owner/operator's authorized representative		2/25/97 Date signed	

Revised June 1990

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 _____		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 _____ 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>																						
Tier Two EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY Specific Information by Chemical FOR OFFICIAL USE ONLY ID # _____ Date Received _____		Important: Read all instructions before completing form Reporting Period From January 1 to December 31, 19 <u>96</u> ☐ 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																					
CAS <u>0</u> <u>0</u> <u>1</u> <u>3</u> <u>1</u> <u>0</u> <u>7</u> <u>3</u> <u>2</u> Trade Secret ☐ Chem. Name <u>SODIUM HYDROXIDE (cont'd)</u> Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name _____	Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	Max. Daily Amount (code) <u>0</u> <u>5</u> Avg. Daily Amount (code) <u>0</u> <u>5</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>Container Type</td> <td>Pressure</td> <td>Code</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> <tr> <td>N</td> <td>4</td> <td>1</td> </tr> <tr> <td>N</td> <td>4</td> <td>1</td> </tr> </table>	Container Type	Pressure	Code	J	4	1	K	4	1	M	4	1	N	4	1	N	4	1	N	4	1
Container Type	Pressure	Code																						
J	4	1																						
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CAS <u>0</u> <u>0</u> <u>1</u> <u>3</u> <u>1</u> <u>0</u> <u>7</u> <u>3</u> <u>2</u> Trade Secret ☐ Chem. Name <u>SODIUM HYDROXIDE (cont'd)</u> Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name _____	Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	Max. Daily Amount (code) <u>0</u> <u>5</u> Avg. Daily Amount (code) <u>0</u> <u>5</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>Container Type</td> <td>Pressure</td> <td>Code</td> </tr> <tr> <td>N</td> <td>4</td> <td>1</td> </tr> </table>	Container Type	Pressure	Code	N	4	1															
Container Type	Pressure	Code																						
N	4	1																						
CAS <u>0</u> <u>0</u> <u>7</u> <u>6</u> <u>8</u> <u>1</u> <u>5</u> <u>2</u> <u>9</u> Trade Secret ☐ Chem. Name <u>SODIUM HYPOCHLORITE</u> Check all that apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS EHS Name _____	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>Container Type</td> <td>Pressure</td> <td>Code</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>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> </table>	Container Type	Pressure	Code	E	4	1	E	4	1	E	4	1	E	4	1	E	4	1	N	4	1
Container Type	Pressure	Code																						
E	4	1																						
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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>23</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		Date signed <u>2/25/97</u> Signature <u>[Signature]</u>																						
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 FOR OFFICIAL USE ONLY ID # Date Received		Owner/Operator Name Name U.S. Department of Energy Phone (423) 576 9850 Mail Address P.O. Box 2001, Oak Ridge, TN 37831 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, 19 96			
Chemical Description CAS 007681529 Trade Secret Chem. Name SODIUM HYPOCHLORITE (cont'd) Check all that apply: ☐ Pure ☒ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name		Physical and Health Hazards (check all that apply) Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic)	
Inventory Max. Daily Amount (code) 04 Avg. Daily Amount (code) 04 No. of Days On-Site (days) 365		Storage Codes and Locations (Non-Confidential) Container Type Pressure N 4 1 Union Valley Facility R 4 1 9201-5N; 9204-4	
CAS 007664939 Trade Secret Chem. Name SULFURIC ACID Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name		9201-5 / Outside Tank 9401-3 / Main Utilities Area 9401-3; 9404-18 9616-7 / West End Treatment 9616-9 9401-2 / Plating Shop / Annex	
CAS 007664939 Trade Secret Chem. Name SULFURIC ACID (cont'd) Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name		9409-10; 9409-13; 9409-15; 9409-18 9409-2; 9409-20; 9409-22; 9409-22E 9409-23; 9409-24; 9409-26; 9409-28 9409-29; 9409-30; 9409-32; 9409-34 9409-4; 9720-2 9201-2	
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 23, 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 Date signed 2/25/97	

Revised June 1990

Tier Two EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY		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 #		Emergency Contact	
Date Received		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

Chemical Description	Physical and Health Hazards	Inventory	Storage Codes and Locations (Non-Confidential)	Optional
CAS 0007664939 Chem. Name SULFURIC ACID (conf'd) Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☐ Liquid ☐ Gas ☒ EHS EHS Name SULFURIC ACID	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	Container Type Temperature Pressure M 4 1 9201-5N / 1st Floor / Room 133 M 4 1 9204-2; 9204-2E / 3rd Floor M 4 1 9204-4 / 2nd Floor M 4 1 9206 / 2nd Floor / Room 100E; 9207 M 4 1 9212 / B 1 Wing M 4 1 9401-2 / Plating Shop / Annex	☐
CAS 0007664939 Chem. Name SULFURIC ACID (conf'd) Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☐ Liquid ☐ Gas ☒ EHS EHS Name SULFURIC ACID	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	Container Type Temperature Pressure M 4 1 9623 / GPCF - Laboratory; 9735 M 4 1 9737; 9769 / 2nd Floor M 4 1 9769 / 3rd Floor; 9995 / 1st Floor M 4 1 Union Valley Facility M 4 1 9201-5; 9616-7 / Laboratory	☐
CAS 0007664939 Chem. Name URANIUM AND URANIUM COMPOUNDS Check all that apply: ☒ Pure ☒ Mix ☐ Solid ☐ Liquid ☐ Gas ☐ EHS EHS Name	Fire ☒ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic) ☒	Max. Daily Amount (code) 06 Avg. Daily Amount (code) 06 No. of Days On-Site (days) 365	Container Type Temperature Pressure R 4 1 9119; 9201-2; 9201-4; 9201-5 R 4 1 9201-5N; 9202; 9203; 9204-1; 9204-2 R 4 1 9204-2E; 9204-3; 9204-4; 9206; 9207 R 4 1 9212; 9215; 9401-4; 9401-5; 9710-2 R 4 1 9711-1; 9720-1; 9720-12; 9720-18 R 4 1 9720-3; 9720-5; 9735; 9769; 9825A	☐

Certification (Read and sign after completing all sections)		Optional Attachments	
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Name and official title of owner/operator OR owner/operator's authorized representative Todd R. Butz, Y-12 Plant Manager		Date signed 2/25/97	

* This form covers only the activities of Lockheed Martin Energy Research Corporation and its subsidiaries.

Revised June 1990

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 _____ ID # _____ Date Received _____ FOR OFFICIAL USE ONLY		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>	
Tier Two EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY Specific Information by Chemical		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>	
Important: Read all instructions before completing form Reporting Period From January 1 to December 31, 19 <u>96</u> Check if information below is identical to the information submitted last year: ☐			
Chemical Description		Physical and Health Hazards (check all that apply)	Inventory
CAS <u>0</u> <u>0</u> <u>7</u> <u>4</u> <u>4</u> <u>0</u> <u>6</u> <u>1</u> <u>1</u> Trade Secret ☐ Chem. Name <u>URANIUM AND URANIUM COMPOUNDS (cont'd)</u> Check all that apply: ☐ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS _____ EHS Name _____		☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	Container Type _____ Temperature _____ Pressure _____ R 4 1 9980; 9983-17; 9995; 9998
CAS <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>5</u> <u>7</u> <u>1</u> <u>3</u> <u>6</u> Trade Secret ☐ Chem. Name <u>UREA</u> Check all that apply: ☐ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS _____ EHS Name _____		☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic)	E 4 1 9206 / West Dock; 9219; 9983-AL F 4 1 9404-20; 9720-13 J 4 1 9720-13; 9720-2; 9769 K 4 1 West Tank Farm M 4 1 9202 N 4 1 9204-3; 9616-7 / Laboratory; 9995
CAS <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>5</u> <u>7</u> <u>1</u> <u>3</u> <u>6</u> Trade Secret ☐ Chem. Name <u>UREA (cont'd)</u> Check all that apply: ☐ Pure ☒ Mix ☒ Solid ☒ Liquid ☐ Gas ☐ EHS _____ EHS Name _____		☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic)	N 4 1 Union Valley Facility R 4 1 9720-50
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		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>23</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. Buitz, Y-12 Plant Manager Signature <u>Todd R. Buitz</u> Date signed <u>2/25/97</u> Name and official title of owner/operator OR owner/operator's authorized representative Signature _____ Date signed _____	

CODE KEY

INVENTORY

Range Value	Weight Range in Pounds	
	From	To
01	0	99
02	100	999
03	1,000	9,999
04	10,000	99,999
05	100,000	999,999
06	1,000,000	9,999,999
07	10,000,000	49,999,999
08	50,000,000	99,999,999
09	100,000,000	499,999,999
10	500,000,000	999,999,999
11	1 Billion	higher than 1 billion

TEMPERATURE AND PRESSURE

<u>Codes</u>	<u>Storage Conditions</u>
	(PRESSURE)
1	Ambient pressure
2	Greater than ambient pressure
3	Less than ambient pressure
	(TEMPERATURE)
4	Ambient temperature
5	Greater than ambient temperature
6	Less than ambient temperature but not cryogenic
7	Cryogenic conditions

STORAGE TYPES

<u>Codes</u>	<u>Types of Storage</u>
A	Aboveground tank
B	Below-ground tank
C	Tank inside building
D	Steel drum
E	Plastic or nonmetallic drum
F	Can
G	Carboy
H	Silo
I	Fiber drum
J	Bag
K	Box
L	Cylinder
M	Glass bottles or jugs
N	Plastic bottle
O	Tote bin
P	Tank wagon
Q	Rail car
R	Other