

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
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February 1998

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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

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

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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 ID # OFFICIAL USE ONLY 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, 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	
CAS 0000064197 Chem. Name ACETIC ACID Check all that apply: EHS Name		Fire ☒ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic) ☐ Trade Secret ☐		Max. Daily Amount (code) ☐ 4 ☐ Avg. Daily Amount (code) ☐ 4 ☐ No. of Days On-Site (days) ☐ 3 ☐ 6 ☐ 5		C 4 1 9616-7 / West End Treatment Facility / Groundwater Treatment Facility G 4 1 UVSPF / Room 3 K 4 1 9623 / Central Pollution Control Facility M 4 1 9201-5 / 2nd Floor / Arc Melt; 9202 / 1st Floor / Room 178 M 4 1 9203 / 1st floor / Room 50; 9204-2E / 3rd Floor / Room 316 M 4 1 9204-3 / 1st Floor / Room 109; 9206 / 1st Floor	
CAS 0000064197 Chem. Name ACETIC ACID (cont'd) Check all that apply: EHS Name		Fire ☒ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic) ☐ Trade Secret ☐		Max. Daily Amount (code) ☐ 4 ☐ Avg. Daily Amount (code) ☐ 4 ☐ No. of Days On-Site (days) ☐ 3 ☐ 6 ☐ 5		M 4 1 9210 / 2nd floor / 221; 9212 / Room 1014; 9401-2 / Surface Coating M 4 1 9616-7 / Laboratory; 9624 / WETF Lab.; 9731 / 1st Floor; 9818; 9995 N 4 1 9417-8; 9739; 9769 R 4 1 9204-1 / 1st Floor / Room 112; 9720-2; 9720-8	
CAS 0001344281 Chem. Name ALUMINUM OXIDE Check all that apply: EHS Name		Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic) ☐ Trade Secret ☐		Max. Daily Amount (code) ☐ 4 ☐ Avg. Daily Amount (code) ☐ 4 ☐ No. of Days On-Site (days) ☐ 3 ☐ 6 ☐ 5		D 4 1 9201-5; 9998 E 4 1 9709; 9738 F 4 1 9202 / 3rd Floor; 9204-2; 9204-2E; 9624; 9995 I 4 1 9202 / 1st Floor / Room 178; 9727-4 J 4 1 9202; 9203; 9404-20; 9831 K 4 1 9201-5N; 9204-1; 9712; 9714; 9720-50; 9998	

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 2/17/98

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 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		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	
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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) Storage Locations		
CAS 001344281 Chem. Name ALUMINUM OXIDE (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	M 4 1 9202; 9204-3; 9737; 9995 N 4 1 9201-3; 9201-5; 9202; 9203; 9204-1; 9206; 9401-3; 9995 R 4 1 9201-1; 9201-2; 9201-3; 9204-3; 9204-4; 9208; 9212; 9404-20; 9712 R 4 1 9714; 9723-25		
CAS 0074440371 Chem. Name ARGON 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	A 7 2 9977-1 / Gas Storage L 4 2 9201-3; 9201-5 / 2nd Floor / Arc Melt; 9202; 9203 L 4 2 9204-1 / Maintenance Shop; 9204-2 / Maintenance; 9204-2E / 2nd Floor L 4 2 9204-3; 9206; 9206 / West Dock; 9212 / B-1 Wing / Maintenance Area L 4 2 9212 / West Side Cylinder Storage; 9215 / M Wing L 4 2 9215 / West side Cylinder Storage; 9401-1; 9401-5; 9420		
CAS 0074440371 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) 05 No. of Days On-Site (days) 365	L 4 2 9616-7 / West End Treatment Facility; 9624 / Maintenance Shop L 4 2 9709 / Weld Test Shop; 9720-13; 9720-58 / Waste oil/Solvent Storage L 4 2 9720-6 / Metal Fab Shops; 9723-25 / 1st Floor / Maintenance shop; 9731 L 4 2 9769; 9995; 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.		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
Name and official title of owner/operator OR owner/operator's authorized representative Todd R. Butz, Y-12 Plant Manager		Date signed 2/17/98
*This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.		

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		County Anderson		State TN		Zip 37831	
SIC Code 3499		Dun & Brad Number		Emergency Contact Name Plant Shift Superintendent		Title	
FOR OFFICIAL USE ONLY		ID #		Phone (423) 574-7172		24 Hr. Phone (423) 574-7172	
Date Received		Reporting Period		Name DOE Emergency Response Center		Title	
		From January 1 to December 31, 1997		Phone (423) 576-1005		24 Hr. Phone (423) 576-1005	
Important: Read all instructions before completing form				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)	
CAS 0007440417		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days)		Storage Locations	
Chem. Name BERYLLIUM & COMPOUNDS, AS BE		☐ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)		☐ 0 ☐ 4 ☐ 0 ☐ 4 ☐ 3 ☐ 6 ☐ 5		9201-5 / 1st Floor / Annex 9203A / 1st Floor 9202 / 2nd Floor / Room 216 9203A / 1st Floor 9203A / 1st Floor / Room 102A	
Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS							
EHS Name							
CAS 0001306190		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days)		9204-3 / 1st Floor; 9995 9204-3 / 2nd Floor; 9401-2 9995	
Chem. Name CADMIUM OXIDE		☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)		☐ 0 ☐ 2 ☐ 0 ☐ 2 ☐ 3 ☐ 6 ☐ 5			
Check all that apply: ☒ Pure ☒ Mix ☒ Solid ☐ Liquid ☐ Gas ☒ EHS							
EHS Name CADMIUM OXIDE							
CAS 0001317653		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days)		9404-5; 9831 9201-3; 9204-2; 9204-2E; 9206; 9401-3; 9420; 9623; 9624; 9720-15 9720-6; 9723-25; 9831; 9983-BK; 9995 9204-2E; 9401-3; 9404-20; 9720-50; 9720-8; 9723-25 9203 / 1st floor; 9995; UVSPF 9202; 9203; 9995	
Chem. Name CALCIUM CARBONATE		☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic)		☐ 0 ☐ 4 ☐ 0 ☐ 4 ☐ 3 ☐ 6 ☐ 5			
Check all that apply: ☒ Pure ☐ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS							
EHS Name							
Certification (Read and sign after completing all sections)				Optional Attachments			
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Todd R. Butz, Y-12 Plant Manager				Date signed 2/17/98			
Name and official title of owner/operator OR owner/operator's authorized representative				Signature			

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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		City Oak Ridge				Mail Address P.O. Box 2001, Oak Ridge, TN 37831	
County Anderson		State TN				Zip 37831	
SIC Code 3499		Dun & Brad Number				Emergency Contact	
FOR ID #		Name Plant Shift Superintendent				Title	
OFFICIAL USE ONLY		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	
CAS 0000076131 Chem. Name FREON 113 (cont'd)		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days)		9204-1 / 1st Floor / Red Shop 9103 / 1st Floor; 9203	
Check all that apply: Pure ☒ Mix ☒ Solid ☒ Liquid ☒ Gas ☒ EHS ☒		Trade Secret ☐					
EHS Name							
CAS 0000075718 Chem. Name FREON 12		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days)		9201-1; 9201-3; 9201-5N; 9204-1 / Dock 119; 9204-2E; 9204-4; 9712 9714 / TSD Garage; 9737; 9808 / Refrigeration Shop; 9959; 9981	
Check all that apply: Pure ☒ Mix ☒ Solid ☒ Liquid ☒ Gas ☒ EHS ☒		Trade Secret ☐					
EHS Name							
CAS 0000075456 Chem. Name FREON 22		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days)		9203; 9737 9201-3; 9208; 9420; 9720-8; 9737; 9808 / Refrigeration Shop; 9959	
Check all that apply: Pure ☒ Mix ☒ Solid ☒ Liquid ☒ Gas ☒ EHS ☒		Trade Secret ☐					
EHS Name							
Certification (Read and sign after completing all sections)		Optional Attachments					
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Todd R. Butz, Y-12 Plant Manager		Date signed 2/17/98					
Name and official title of owner/operator OR owner/operator's authorized representative		Signature					

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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 & Bradstreet Number		Emergency Contact	
FOR OFFICIAL USE ONLY		ID #		Name Plant Shift Superintendent	
Date Received		Reporting Period		Phone (423) 574-7172	
		From January 1 to December 31, 1997		24 Hr. Phone (423) 574-7172	
		Inventory		Title	
		Physical and Health Hazards (check all that apply)		24 Hr. Phone (423) 576-1005	
Chemical Description		Inventory		Check if information below is identical to the information submitted last year. ☐	
CAS 0007664393		Fire		Storage Codes and Locations (Non-Confidential)	
Chem. Name HYDROGEN FLUORIDE		Sudden Release of Pressure		Storage Locations	
Check all that apply:		Reactivity			
EHS Name HYDROGEN FLUORIDE		Immediate (acute)			
		Delayed (chronic)			
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		Delayed (chronic)			
		Fire			
		Sudden Release of Pressure			
		Reactivity			
		Immediate (acute)			
		Delayed (chronic)			
		Fire			
		Sudden Release of Pressure			
		Reactivity			
		Immediate (acute)			
		Delayed (chronic)			
		Fire			
		Sudden Release of Pressure			
		Reactivity			
		Immediate (acute)			
		Delayed (chronic)			
		Fire			
		Sudden Release of Pressure			
		Reactivity			
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		Sudden Release of Pressure			
		Reactivity			
		Immediate (acute)			
		Delayed (chronic)			
		Fire			
		Sudden Release of Pressure			
		Reactivity			
		Immediate (acute)			
		Delayed (chronic)			
		Fire			
		Sudden Release of Pressure			
</					

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 ID # OFFICIAL USE ONLY 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, 1997		Storage Codes and Locations (Non-Confidential) Storage Locations			
Chemical Description		Physical and Health Hazards (check all that apply)		Inventory			
CAS 007447418 Chem. Name LITHIUM CHLORIDE Check all that apply: EHS Name		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days)			
CAS 013587161 Chem. Name LITHIUM DEUTERIDE Check all that apply: EHS Name		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days)			
CAS 007580678 Chem. Name LITHIUM HYDRIDE Check all that apply: EHS Name		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days)			
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.		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.**

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

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		County Anderson	State TN	Zip 37831	Phone (423) 576-9850
SIC Code 3499		Dun & Brad Number		Title	
FOR OFFICIAL USE ONLY				Emergency Contact	
ID #				Name Plant Shift Superintendent	
Date Received				Phone (423) 574-7172	
Specific Information by Chemical				24 Hr. Phone (423) 574-7172	
Important: Read all instructions before completing form				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 (check all that apply)		Inventory	
CAS 007440020 Trade Secret		Fire		Max. Daily Amount (code)	
Chem. Name NICKEL AND NICKEL COMPOUND		Sudden Release of Pressure		Avg. Daily Amount (code)	
DS		Reactivity		No. of Days On-Site (days)	
Check all that apply:		Immediate (acute)		D 4 1	
EHS Name		Delayed (chronic)		F 4 1	
X Pure		X X		J 4 1	
X Mix		X		K 4 1	
X Solid		X		M 4 1	
X Liquid		X		N 4 1	
X Gas		X		9204-4 / 2nd Floor / Plating Shop: 9720-8	
X EHS		X		9201-1; 9201-3; 9203; 9208	
CAS 007440020 Trade Secret		Fire		9204-4 / 2nd Floor / Plating Shop: 9720-2; 9720-50; 9831	
Chem. Name NICKEL AND NICKEL COMPOUND		Sudden Release of Pressure		9212; 9401-3; 9624	
DS (cont'd)		Reactivity		9203; 9204-3; 9995; UVSPF	
Check all that apply:		Immediate (acute)		9203; 9204-3; 9204-4 / 2nd Floor / Plating Shop: 9624	
EHS Name		Delayed (chronic)		9201-5; 9204-3; 9212; 9720-2; 9720-8	
X Pure		X X		9202	
X Mix		X		9202	
X Solid		X		9202; 9401-3	
X Liquid		X		9831	
X Gas		X		9202; 9203; 9204-3; 9995; UVSPF	
X EHS		X		9202; 9203	
CAS 007440031 Trade Secret		Fire		9202	
Chem. Name NIOBIUM METAL		Sudden Release of Pressure		9202	
DS		Reactivity		9202; 9401-3	
Check all that apply:		Immediate (acute)		9831	
EHS Name		Delayed (chronic)		9202; 9203; 9204-3; 9995; UVSPF	
X Pure		X X		9202; 9203	
X Mix		X		9202; 9203	
X Solid		X		9202; 9203	
X Liquid		X		9202; 9203	
X Gas		X		9202; 9203	
X EHS		X		9202; 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 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.				☐ I have attached a site plan	
Todd R. Butz, Y-12 Plant Manager				☐ I have attached a list of site coordinate abbreviations	
Name and official title of owner/operator OR owner/operator's authorized representative				☐ I have attached a description of dikes and other safeguard measures	
Signature				Date signed 2/17/98	

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 County Anderson State TN Zip 37831				Phone (423) 576-9850	
SIC Code 3499 Dun & Brad Number				Emergency Contact	
FOR ID #				Name Plant Shift Superintendent	
OFFICIAL USE ONLY				Phone (423) 574-7172 Title	
Date Received				Name DOE Emergency Response Center	
				Phone (423) 576-1005 Title	
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	
CAS 007440031 Trade Secret		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		Storage Codes and Locations (Non-Confidential)	
Chem. Name NIOBIUM METAL (cont'd)		X Pure X Mix X Solid X Liquid X Gas X EHS		Storage Locations	
EHS Name		Check all that apply: X Pure X Mix X Solid X Liquid X Gas X EHS		C n t r y e p s	
CAS 007697372 Trade Secret		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		9201-1; 9202; 9401-3; 9703-15; 9720-6; 9723-25; 9737; 9831; 9995	
Chem. Name NITRIC ACID		X Pure X Mix X Solid X Liquid X Gas X EHS		A 4 1 9206; 9815	
EHS Name NITRIC ACID		Check all that apply: X Pure X Mix X Solid X Liquid X Gas X EHS		C 4 1 9206 / 2nd Floor / Room 100E; 9212 / B-1 Wing / Penthouse	
CAS 007697372 Trade Secret		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		D 4 1 9204-3 / 2nd Floor	
Chem. Name NITRIC ACID (cont'd)		X Pure X Mix X Solid X Liquid X Gas X EHS		M 4 1 9201-5 / 2nd Floor; 9201-5N / 1st Floor / Plating Shop; 9202; 9203	
EHS Name NITRIC ACID		Check all that apply: X Pure X Mix X Solid X Liquid X Gas X EHS		M 4 1 9204-2E / 3rd Floor / Room 316; 9204-3 / 1st Floor	
CAS 007697372 Trade Secret		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)		M 4 1 9204-4 / 2nd Floor / Plating Shop; 9207 / 1st Floor / Room 7-1006	
Chem. Name NITRIC ACID		X Pure X Mix X Solid X Liquid X Gas X EHS		M 4 1 9212 / E Wing / Room 1021; 9401-2 / Plating Shop / Annex; 9616-7; 9731	
EHS Name NITRIC ACID		Check all that apply: X Pure X Mix X Solid X Liquid X Gas X EHS		M 4 1 9769; 9995; 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.		Optional Attachments	
Name and official title of owner/operator OR owner/operator's authorized representative		Signature		I have attached a site plan	
Todd R. Butz, Y-12 Plant Manager		Date signed 2/17/98		I have attached a list of site coordinate abbreviations	
Name and official title of owner/operator OR owner/operator's authorized representative		Signature		I have attached a description of dikes and other safeguard measures	
Name and official title of owner/operator OR owner/operator's authorized representative		Signature		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.

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

1 to December 31, 1997	☐ Check if information below is identical to the information submitted last year.
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C n t r i b u t o r s	Storage Codes and Locations (Non-Confidential)	Storage Locations
F 4 1	9201-1; 9201-3; 9201-5; 9204-1; 9204-2; 9204-2E; 9204-4; 9207; 9208	
F 4 1	9212 / A Wing; 9212 / B Wing; 9212 / E Wing; 9404-16; 9404-20; 9616-9	
F 4 1	9712; 9714 / TSD Garage; 9723-21; 9723-25; 9737; 9998	
F 4 2	9401-1; 9404-1	
M 4 1	9201-1; 9201-3; 9206; 9737	
N 4 1	9201-3; 9201-5E; 9201-5N; 9204-2; 9212 / E Wing; 9215A; 9401-1; 9401-3	

N	4	1	9624; 9714 / TSD Garage; 9808	
R	4	1	9201-3; 9767-13; 9998	
R	4	2	9404-1	

E	4	1	9409-10; 9409-13; 9409-15; 9409-17; 9409-18; 9409-22; 9409-23; 9409-26
E	4	1	9409-29; 9409-32; 9720-2
G	4	1	9201-5N
M	4	1	9201-5
N	4	1	9201-5N; 9401-2

I have attached a description of
 dikes and other safeguard measures

Tier Two		Facility Identification	
Emergency and Hazardous Chemical Inventory	Name US DOE Lockheed Martin Energy Systems Y-12 Plant*		
	Street Bear Creek Road	County Anderson	State TN Zip 37831
	City Oak Ridge	Dun & Brad Number	
	SIC Code 3499		
FOR		ID #	
Specific Information by Chemical		OFFICIAL USE ONLY	
		Date Received	

Important: Read all instructions before completing form	Reporting Period	From January
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[illegible][illegible]

CAS	0	0	7	6	6	4	3	8	2	Trade Secret
Chem. Name PHOSPHORIC ACID										
Check all that apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS										
EHS Name										

☒ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	☐ 0 ☐ 0 ☐ 3 ☒ 4 ☐ 4 ☐ 6 ☒ 5	Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site ()
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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 on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true and correct.

Todd R. Butz, Y-12 Plant Manager

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

Signature

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		City Oak Ridge		County Anderson		State TN Zip 37831	
SIC Code 3499		Dun & Brad Number		Emergency Contact Name Plant Shift Superintendent		Title	
FOR OFFICIAL USE ONLY		ID #		Phone (423) 574-7172		24 Hr. Phone (423) 574-7172	
Date Received		Reporting Period		Name DOE Emergency Response Center		Title	
		From January 1 to December 31, 1997		Phone (423) 576-1005		24 Hr. Phone (423) 576-1005	
Important: Read all instructions before completing form		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 065997151	Chem. Name PORTLAND CEMENT	Fire	Sudden Release of Pressure	Max. Daily Amount (code)	Avg. Daily Amount (code)	No. of Days On-Site (days)	
		☐	☐	☐ 4	☐ 4	☐ 5	9420; 9831; 9995
		☒ X	☒ X	☐ 0	☐ 4	☐ 5	9401-3; 9404-20; 9420; 9720-50; 9723-25; 9831
		☒ X	☒ X	☐ 3	☐ 6	☐ 5	9720-50; UVSPF
		☒ X	☒ X	☐ 0	☐ 4	☐ 5	9201-3; 9201-4; 9201-5; 9204-1; 9204-4; 9215; 9404-20; 9404-8; 9624
		☒ X	☒ X	☐ 3	☐ 6	☐ 5	9720-50; 9731; 9737; 9831
		☒ X	☒ X	☐ 0	☐ 4	☐ 5	
CAS 0000151508	Chem. Name POTASSIUM CYANIDE	Fire	Sudden Release of Pressure	Max. Daily Amount (code)	Avg. Daily Amount (code)	No. of Days On-Site (days)	
		☐	☐	☐ 2	☐ 2	☐ 5	9201-5N
		☐	☐	☐ 0	☐ 2	☐ 5	9706-2 / 1st Floor
		☒ X	☒ X	☐ 3	☐ 6	☐ 5	9204-3 / 1st Floor; 9401-4
		☒ X	☒ X	☐ 0	☐ 4	☐ 5	9202
		☒ X	☒ X	☐ 3	☐ 6	☐ 5	9995 / 1st Floor
		☒ X	☒ X	☐ 0	☐ 4	☐ 5	
CAS 0000074986	Chem. Name PROPANE	Fire	Sudden Release of Pressure	Max. Daily Amount (code)	Avg. Daily Amount (code)	No. of Days On-Site (days)	
		☒ X	☐	☐ 4	☐ 4	☐ 5	9201-1; 9201-2; 9201-3; 9201-5; 9202; 9203; 9204-1; 9204-3; 9206; 9212
		☒ X	☐	☐ 0	☐ 4	☐ 5	9219; 9401-1; 9401-3; 9404-5; 9404-9; 9420; 9709; 9714 / TSD Garage
		☒ X	☐	☐ 3	☐ 6	☐ 5	9720-6; 9723-21; 9737; 9766; 9808; 9824-5; 9959; 9996; 9998
		☒ X	☐	☐ 0	☐ 4	☐ 5	
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		☒ X	☐	☐ 0	☐ 4	☐ 5	
		☒ X	☐	☐ 3	☐ 6	☐ 5	
		☒ X	☐	☐ 0	☐ 4	☐ 5	
		☒ X	☐	☐ 3	☐ 6	☐ 5	
		☒ X	☐	☐ 0	☐ 4	☐ 5	
		☒ X	☐	☐ 3	☐ 6	☐ 5	
		☒ X	☐	☐ 0	☐ 4	☐ 5	
		☒ X	☐	☐ 3	☐ 6	☐ 5	
		☒ X	☐	☐ 0	☐ 4	☐ 5	
		☒ X	☐	☐ 3	☐ 6	☐ 5	
		☒ X	☐	☐ 0	☐ 4	☐ 5	
		☒ X	☐	☐ 3	☐ 6	☐ 5	
		☒ X	☐	☐ 0	☐ 4	☐ 5	
		☒ X	☐				

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		City Oak Ridge				Mail Address P.O. Box 2001, Oak Ridge, TN 37831	
County Anderson		State TN				Zip 37831	
SIC Code 3499		Dun & Brad Number				Emergency Contact	
FOR OFFICIAL USE ONLY		ID #				Name Plant Shift Superintendent	
Date Received		Title				Phone (423) 574-7172	
		24 Hr. Phone (423) 574-7172				Title	
		DOE Emergency Response Center				24 Hr. Phone (423) 576-1005	
		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)	
CAS 000057556		Fire		Max. Daily Amount (code)		9201-5E; 9201-5N; 9206; 9212 / A Wing; 9212 / B-1 Wing; 9215 / M Wing	
Chem. Name PROPYLENE GLYCOL		Sudden Release of Pressure		Avg. Daily Amount (code)		9401-3; 9720-2; 9767-4; 9805; 9805-1; 9998	
Check all that apply:		Reactivity		No. of Days On-Site (days)		9202 / 3rd Floor; 9712	
☒ Pure		Immediate (acute)				9202 / 2nd Floor	
☐ Mix		Delayed (chronic)				9202 / 1st Floor	
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
CAS 014808198		Fire		Max. Daily Amount (code)		9404-5; 9720-15	
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)		9104-5; 9201-1; 9201-3; 9202; 9203; 9204-1; 9204-2E; 9204-3; 9204-4	
Check all that apply:		Reactivity		No. of Days On-Site (days)		9206; 9401-3; 9404-5; 9420; 9623; 9624; 9703-15; 9720-13; 9720-6; 9831	
☐ Pure		Immediate (acute)				9983	
☒ Mix		Delayed (chronic)				9401-3; 9404-20; 9420; 9623; 9720-50; 9720-6; 9720-8; 9723-25; 9831	
☐ Solid						9712; 9720-50; 9720-52	
☐ Liquid							
☐ Gas							
EHS Name							
CAS 014808198		Fire		Max. Daily Amount (code)		9204-3; 9995	
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)		9201-1; 9202; 9203; 9204-3; 9206; 9401-3; 9712; 9995	
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)					
☐ Solid							
☐ Liquid							
☐ Gas							
EHS Name							
Z (cont'd)							
CAS 014808198		Fire		Max. Daily Amount (code)			
Chem. Name SILICA, CRYSTALLINE-QUARTZ		Sudden Release of Pressure		Avg. Daily Amount (code)			
Check all that apply:		Reactivity		No. of Days On-Site (days)			
☐ Pure		Immediate (acute)					
☒ Mix		Delayed (chronic)</					

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 #					
Specific Information by Chemical		Date Received					
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				
CAS 0007631905 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) ☐ 0 ☒ 5 Avg. Daily Amount (code) ☐ 0 ☒ 5 No. of Days On-Site (days) ☐ 3 ☒ 6 ☐ 5	C n t y e p s A 4 1 9417-8; 9417-9 E 4 1 9767-8 M 4 1 9202 / 2nd Floor / Room 215				
CAS 0000497198 Chem. Name SODIUM CARBONATE MONOHYD RATE 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) ☐ 0 ☒ 4 Avg. Daily Amount (code) ☐ 0 ☒ 4 No. of Days On-Site (days) ☐ 3 ☒ 6 ☐ 5	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 0000497198 Chem. Name SODIUM CARBONATE MONOHYD RATE (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) ☐ 0 ☒ 4 Avg. Daily Amount (code) ☐ 0 ☒ 4 No. of Days On-Site (days) ☐ 3 ☒ 6 ☐ 5	R 4 1 9204-4; 9215; 9720-2; 9739; 9995; UVSPF				
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 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.			☐ 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			Signature Date signed 5/17/98				

Tier Two Emergency and Hazardous Chemical Inventory		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 Mail Address P.O. Box 2001, Oak Ridge, TN 37831 Emergency Contact Name Plant Shift Superintendent 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	
Specific Information by Chemical		Important: Read all instructions before completing form		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	Options																		
CAS 0007647145 Chem. Name SODIUM CHLORIDE Trade Secret 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	9401-3 9993 9769; 9995; Union Valley Facility	<table><tr><td>B</td><td>4</td><td>1</td></tr><tr><td>H</td><td>4</td><td>1</td></tr><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></table>	B	4	1	H	4	1	N	4	1									
B	4	1																				
H	4	1																				
N	4	1																				
CAS 0001310732 Chem. Name SODIUM HYDROXIDE Trade Secret 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	9204-2 9404-18; 9616-7 9201-2; 9201-5N; 9204-4; 9206; 9401-2; 9805 9206; 9401-2 West Tank Farm 9401-3; 9720-2	<table><tr><td>A</td><td>4</td><td>1</td></tr><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>J</td><td>4</td><td>1</td></tr></table>	A	4	1	C	4	1	D	4	1	E	4	1	F	4	1	J	4	1
A	4	1																				
C	4	1																				
D	4	1																				
E	4	1																				
F	4	1																				
J	4	1																				
CAS 0001310732 Chem. Name SODIUM HYDROXIDE (cont'd) Trade Secret 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	9720-13 9206; 9212; 9805 9104-3; 9109; 9115; 9116; 9119; 9201-1; 9201-2; 9201-3; 9201-5; 9204-2 9204-2E; 9204-3; 9207; 9401-3; 9616-7; 9769; 9818; 9995	<table><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></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>	K	4	1	M	4	1	N	4	1	N	4	1						
K	4	1																				
M	4	1																				
N	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.		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	
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	

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

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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 & Bradstreet 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, 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	
CAS 0007664939 Trade Secret Chem. Name SULFURIC ACID (cont'd) Check all that apply: EHS Name SULFURIC ACID Pure Mix Solid Liquid Gas EHS		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic) ☐ ☐ ☒ ☒ ☒ ☒		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days) 0 5 0 5 3 6 5		9212 / B-1 Wing; 9401-2 / Plating Shop / Annex 9623 / CPCF - Laboratory; 9735; 9737; 9769 / 2nd Floor 9769 / 3rd Floor; 9995 / 1st Floor; Union Valley Facility 9201-5; 9616-7 / Laboratory	
CAS 0007440611 Trade Secret Chem. Name URANIUM AND URANIUM COMPO UNDS Check all that apply: EHS Name Pure Mix Solid Liquid Gas EHS		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic) ☒ ☐ ☐ ☒ ☒ ☒		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days) 0 6 0 6 3 6 5		9119; 9201-2; 9201-4; 9201-5; 9201-5N; 9202; 9203; 9204-1; 9204-2 9204-2E; 9204-3; 9204-4; 9206; 9207; 9212; 9215; 9401-4; 9401-5 9710-2; 9711-1; 9720-1; 9720-12; 9720-18; 9720-3; 9720-5; 9735; 9769 9825A; 9980; 9983-17; 9995; 9998	
CAS 0000057136 Trade Secret Chem. Name UREA Check all that apply: EHS Name Pure Mix Solid Liquid Gas EHS		Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic) ☒ ☐ ☐ ☐ ☒ ☒		Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-Site (days) 0 5 0 4 3 6 5		9206 / West Dock; 9219; 9983-AL 9404-20; 9720-13 9720-13; 9720-2; 9769 West Tank Farm 9202 9204-3; 9616-7 / Laboratory; 9995; 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.							
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 ☐ 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.**