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

R. A. Evans
Environmental Compliance Department
Environment, Safety, Health and Quality Organization

February 2000

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 DE-AC05-84OR21400

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

UCN-13672 (2-11-97)
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EMERGENCY PLANNING AND COMMUNITY

RIGHT-TO-KNOW ACT

SECTION 312 TIER TWO REPORT FORMS

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Oak Ridge Y-12 Plant
Oak Ridge, Tennessee 37831
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Lockheed Martin Energy Systems, Inc.
for the U.S. Department of Energy
under Contract DE-AC05-84OR21400
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: (865) 576-9850  
Mail Address: P.O. Box 2001, Oak Ridge, TN 37831

Emergency Contact  
Name: Plant Shift Superintendent  
Phone: (865) 574-7172  
24 Hr. Phone: (865) 576-1005

Facility identification  
Owner/Operator Name  
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

<table>
<thead>
<tr>
<th>Chemical Description</th>
<th>Physical and Health Hazards</th>
<th>Inventory</th>
<th>Storage Codes and Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 001344281</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chem. Name: ALUMINUM OXIDE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EHS Name</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| CAS: 001344281       |                             |           |                            |
| Chem. Name: ALUMINUM OXIDE (cont’d) |          |           |                            |
| EHS Name              |                             |           |                            |

|CAS: 001344281       |                             |           |                            |
| Chem. Name: ALUMINUM OXIDE (cont’d) |          |           |                            |
| EHS Name              |                             |           |                            |

Certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 40, 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.

Odd R. Butz, Director Environment, Safety, Health and Quality
Name and official title of owner/operator or owner/operator's authorized representative
Signature
Date signed

Optional Attachments
- I have attached a site plan
- I have attached a list of site coordinates abbreviations
- I have attached a description of dikes and other safeguards measures

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

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
Title
Phone: (865) 574-7172

Name: DOE Emergency Response Center
Title
Phone: (865) 576-1005

Import: Read all instructions before completing form

Reporting Period: From January 1 to December 31, 1990

Physical and Health Hazards
Chemical Description

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>Inventory</th>
<th>Storage Codes and Locations (Non-Confidential)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0077430</td>
<td>ARGON</td>
<td></td>
<td></td>
</tr>
<tr>
<td>007440</td>
<td>ARGON (cond)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>007449</td>
<td>PERYLUM &amp; COMPOUNDS, AS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Physical and Health Hazards
(check all that apply)

<table>
<thead>
<tr>
<th>Fire</th>
<th>Sudden Release of Pressure</th>
<th>Reactivity</th>
<th>Immediate (acute)</th>
<th>Delayed (chronic)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Inventory

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>Inventory</th>
<th>Storage Codes and Locations (Non-Confidential)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0077430</td>
<td>ARGON</td>
<td></td>
<td></td>
</tr>
<tr>
<td>007440</td>
<td>ARGON (cond)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>007449</td>
<td>PERYLUM &amp; COMPOUNDS, AS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 this report through 1990, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is correct, accurate, and complete.

Todd R. Butz, Director Environment, Safety, Health and Quality

Form Approved OMB No. 2050-0072
Facility Identification

<table>
<thead>
<tr>
<th>Street</th>
<th>Bond Creek Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>City</td>
<td>Oak Ridge</td>
</tr>
<tr>
<td>County</td>
<td>Anderson</td>
</tr>
<tr>
<td>State</td>
<td>TN</td>
</tr>
<tr>
<td>Zip</td>
<td>37831</td>
</tr>
</tbody>
</table>

SIC Code: 3119

FOR OFFICIAL USE

ID # __________________

Date Received

Important: Read all instructions before completing form

Reporting Period: From January 1 to December 31, 1999

Physical and Health Hazards (check all that apply)

<table>
<thead>
<tr>
<th>Chemical Description</th>
<th>Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire</td>
<td>0 6</td>
</tr>
<tr>
<td>Sudden Release of Pressure</td>
<td>0 6</td>
</tr>
<tr>
<td>Reactivity</td>
<td>3 6 5</td>
</tr>
<tr>
<td>Immediate (acute)</td>
<td></td>
</tr>
<tr>
<td>Delayed (chronic)</td>
<td></td>
</tr>
</tbody>
</table>

Storage Codes and Locations (Non-Confidential)

<table>
<thead>
<tr>
<th>Storage Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>9202</td>
</tr>
<tr>
<td>9401-3</td>
</tr>
</tbody>
</table>

Chemical Description

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chem. Name</th>
<th>Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 0 1 3 0 0</td>
<td>BURNTUMINOUS COAL</td>
<td>0 6</td>
</tr>
<tr>
<td>0 0 1 3 1 7</td>
<td>CALCIUM CARBONATE</td>
<td>0 4</td>
</tr>
<tr>
<td>0 0 1 3 1 7</td>
<td>CALCIUM CARBONATE</td>
<td>0 4</td>
</tr>
</tbody>
</table>

Inventory

<table>
<thead>
<tr>
<th>0 6</th>
<th>Max. Daily Amount (code)</th>
<th>Avg. Daily Amount (code)</th>
<th>No. of Days On-Site (days)</th>
</tr>
</thead>
</table>

Optimal Attachments

- I have attached a site plan
- I have attached a list of site coordinate abbreviations
- I have attached a description of identification (read and sign after completing all sections)
## Tier Two

**Emergency and Hazardous Chemical Inventory**

<table>
<thead>
<tr>
<th>Chemical Description</th>
<th>Physical and Health Hazards</th>
<th>Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS 0 0 1 3 1 7 6 5 3</strong></td>
<td>Fire</td>
<td>Max. Daily Amount (code)</td>
</tr>
<tr>
<td><strong>Chem. Name</strong></td>
<td><strong>CALCULUM CARBONATE</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sudden Release of Pressure</td>
<td>Avg. Daily Amount (code)</td>
</tr>
<tr>
<td></td>
<td>Reactivity</td>
<td>No. of Days On-Site (days)</td>
</tr>
<tr>
<td></td>
<td>Immediate (acute)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Delayed (chronic)</td>
<td></td>
</tr>
<tr>
<td><strong>CAS 0 0 0 1 0 4 3 5 2 4</strong></td>
<td>Fire</td>
<td>Max. Daily Amount (code)</td>
</tr>
<tr>
<td><strong>Chem. Name</strong></td>
<td><strong>CALCULUM CHLORIDE</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sudden Release of Pressure</td>
<td>Avg. Daily Amount (code)</td>
</tr>
<tr>
<td></td>
<td>Reactivity</td>
<td>No. of Days On-Site (days)</td>
</tr>
<tr>
<td></td>
<td>Immediate (acute)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Delayed (chronic)</td>
<td></td>
</tr>
<tr>
<td><strong>CAS 0 0 1 0 0 4 3 5 2 4</strong></td>
<td>Fire</td>
<td>Max. Daily Amount (code)</td>
</tr>
<tr>
<td><strong>Chem. Name</strong></td>
<td><strong>CALCULUM CHLORIDE</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sudden Release of Pressure</td>
<td>Avg. Daily Amount (code)</td>
</tr>
<tr>
<td></td>
<td>Reactivity</td>
<td>No. of Days On-Site (days)</td>
</tr>
<tr>
<td></td>
<td>Immediate (acute)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Delayed (chronic)</td>
<td></td>
</tr>
</tbody>
</table>

**Storage Codes and Locations**

<table>
<thead>
<tr>
<th>Storage Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>N 4 1</td>
</tr>
<tr>
<td>R 4 1</td>
</tr>
<tr>
<td>E 4 1</td>
</tr>
<tr>
<td>F 4 1</td>
</tr>
<tr>
<td>J 4 1</td>
</tr>
<tr>
<td>M 4 1</td>
</tr>
</tbody>
</table>

**Certification**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 40, 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, Director Environment, Safety, Health and Quality

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

Signature

Date signed

Optional Attachments

- [ ] I have attached a site plan
- [ ] I have attached a list of site coordination abbreviations
- [ ] I have attached a description of specific items and other safeguards in place
### 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

### Owner/Operator Name

- **Name**: U.S. Department of Energy
- **Phone**: (865) 576-9850
- **Mail Address**: P.O. Box 2001, Oak Ridge, TN 37831

### Emergency Contact

- **Name**: Plant Shift Superintendent
- **Title**: Title
- **Phone**: (865) 574-7172
- **24 Hr. Phone**: (865) 574-7172

### Reporting Period

From January 1 to December 31, 1999

### Physical and Health Hazards (check all that apply)

- **Immediate (acute)**
- **Delayed (chronic)**

### Inventory

<table>
<thead>
<tr>
<th>Chemical Description</th>
<th>Inventory Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 0013095620</td>
<td>Max. Daily Amount (code)</td>
</tr>
<tr>
<td>CAS: 007140702</td>
<td>Avg. Daily Amount (code)</td>
</tr>
<tr>
<td>CAS: 001333884</td>
<td>No. of Days On-Site (days)</td>
</tr>
</tbody>
</table>

### Storage Codes and Locations (Non-Confidential)

- **Storage Locations**

#### Chemical Description: CA LCIUM HYDROXIDE
- **CAS**: 0013095620
- **EHS Name**:  

#### Chemical Description: CA LCIUM METAL
- **CAS**: 007140702
- **EHS Name**:  

#### Chemical Description: CARBON BLACK
- **CAS**: 001333884
- **EHS Name**:  

### 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)

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R. Burtz, Director Environment, Safety, Health and Quality

Signature: [Signature]
Date signed: [Date]
**Facility Identification**

Name: US DOE Lockheed Martin Energy Systems Y-12 Plant

Street: Bear Creek Road


**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: (865) 574-7172

Title: 24-Hr. Phone: (865) 574-7172

Name: DOE Emergency Response Center

Phone: (865) 576-1005

Title: 24-Hr. Phone: (865) 576-1005

---

### Physical and Health Hazards (check all that apply)

<table>
<thead>
<tr>
<th>Chemical Description</th>
<th>Inventory</th>
<th>Storage Codes and Locations (Non-Confidential)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS 001133834</strong></td>
<td>0 4</td>
<td></td>
</tr>
<tr>
<td>Chem. Name: Carbon Black (cont'd)</td>
<td>Max. Daily Amount (code) 9202; 9203; 9204-2; 9204-3; 9204-4; 9731; 9995</td>
<td></td>
</tr>
<tr>
<td>EHS Name:</td>
<td>Avg. Daily Amount (code) 9201-1; 9201-2; 9201-5; 9201-6; 9204-2; 9204-3; 9204-4; 9206; 9212; 9215; 9420</td>
<td></td>
</tr>
<tr>
<td></td>
<td>No. of Days On-Site (days) R 4 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>On-Site (days) R 4 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R 4 1</td>
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<tr>
<td></td>
<td>9995; UVSPF</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R 4 1</td>
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</tr>
<tr>
<td></td>
<td>9703-15; 9709; 9710-2; 9720-1; 9720-6; 9720-8; 9725; 9737; 9738; 9831</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R 4 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9204-2E / 2nd Floor; 9709; 9711-5; 9769; 9995 / BASEMENT</td>
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</tr>
<tr>
<td></td>
<td>R 4 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>L 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9998</td>
<td></td>
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<tr>
<td></td>
<td>L 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9401-1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>L 6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9401-1</td>
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</tr>
<tr>
<td></td>
<td>P 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9201-3; 9710-2 / Outside Tanker</td>
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<td></td>
<td>P 7</td>
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<tr>
<td></td>
<td>9710-2</td>
<td></td>
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<tr>
<td></td>
<td>R 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9201-1; 9204-4; 9737; 9995</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R 6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9710-2</td>
<td></td>
</tr>
</tbody>
</table>

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Todd R. Butz, Director Environment, Safety, Health and Quality

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

Signature

Date signed

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

Physical and Health Hazards

<table>
<thead>
<tr>
<th>Chemical Description</th>
<th>Inventory</th>
<th>Storage Codes and Locations (Non-Confidential)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARBON DIOXIDE</td>
<td>P 4 1</td>
<td>R 4 1</td>
</tr>
<tr>
<td>CONTINUUM AT220</td>
<td>P 4 1</td>
<td>R 4 1</td>
</tr>
<tr>
<td>DIANOCIC DN300</td>
<td>P 4 1</td>
<td>R 4 1</td>
</tr>
</tbody>
</table>

Certification (Futud and sign after completing all sections)

I hereby declare, under penalty of law, that I have personally examined and am familiar with the information submitted in pages one through 40 , and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, complete, and complete.

M R. Butz, Director Environment, Safety, Health and Quality

Signature: [Signature]
Date signed: [Date]
**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

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Name: U.S. Department of Energy

Phone: (865) 576-9850

Mail Address: P.O. Box 2001, Oak Ridge, TN 37831

**Emergency Contact**

Name: Plant Shift Superintendent

Phone: (865) 574-7172

Title: 24 Hr. Phone: (865) 574-7172

Name: DOE Emergency Response Center

Phone: (865) 576-1005

Title: 24 Hr. Phone: (865) 576-1005

**Physical and Health Hazards**

(check all that apply)

- Fire
- Sudden Release of Pressure
- Reactivity
- Immediate (acute)
- Delayed (chronic)

**Inventory**

<table>
<thead>
<tr>
<th>Chemical Description</th>
<th>Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Diatomaceous Earth</strong></td>
<td>0 4 Max. Daily Amount (code)</td>
</tr>
<tr>
<td><strong>Diesel Fuel No. 2</strong></td>
<td>0 5 Max. Daily Amount (code)</td>
</tr>
</tbody>
</table>

**Storage Codes and Locations**

(Non-Confidential)

**Certification**

(Read and sign after completing all sections)

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Todd R. Butz, Director Environment, Safety, Health and Quality

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 emergency measures

This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.
## 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:** 34439

**ID Number:**

### Owner/Operator Name

**Name:** U.S. Department of Energy

**Phone:** (865) 576-9550

**Mail Address:** P.O. Box 2001, Oak Ridge, TN 37831

### Emergency Contact

**Name:** Plant Shift Superintendent

**Title:**

**Phone:** (865) 574-7172

**24 Hr. Phone:** (865) 574-7172

**Name:** DOE Emergency Response Center

**Title:**

**Phone:** (865) 576-1005

**24 Hr. Phone:** (865) 576-1005

---

## Chemical Description

### Physical and Health Hazards

- **CAS No.**
- **Chem. Name:** Diesel Fuel No. 2 (cont'd)
- **Chem. Name:** Ethylene Glycol
- **Chem. Name:** Ethylene Glycol (cont'd)

### Inventory

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Chem. Name</th>
<th>Inventory Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Diesel Fuel No. 2</td>
<td>Max. Daily Amount (code)</td>
</tr>
<tr>
<td></td>
<td>Ethylene Glycol</td>
<td>Max. Daily Amount (code)</td>
</tr>
<tr>
<td></td>
<td>Ethylene Glycol (cont'd)</td>
<td>Max. Daily Amount (code)</td>
</tr>
</tbody>
</table>

### Storage Codes and Locations

**Non-Confidential:**

- **Storage Locations:**

**Confidential:**

- **Storage Codes and Locations:**

---

## Reporting Period

**From January 1 to December 31, 1999**

---

## Important

- Read all instructions before completing form.

---

## Signatures

- **M.R. Butz,** Director Environment, Safety, Health and Quality

---

## 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 safety related features
## Facility Identification

- **Name**: US DOE Lockheed Martin Energy Systems Y-12 Plant
- **Street**: Bear Creek Rd
- **City**: Oak Ridge
- **County**: Anderson
- **State**: TN
- **Zip**: 37831

## Owner/Operator Name

- **Name**: U.S. Department of Energy
- **Phone**: (865) 574-5850

## SIC Code

- **Code**: 3499
- **Dun & Brad Number**: [ ] [ ] [ ] [ ] [ ]

## FOR OFFICIAL USE ONLY

- **ID #**: [ ]
- **Date Received**: [ ]

## Reporting Period

- **From January 1 to December 31, 1999**

## Chemical Description

<table>
<thead>
<tr>
<th>CAS 0 0 0 7 5 1 3 1</th>
<th>Trade Name: FREON 113</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check all that apply:</td>
<td>Pure, Min. Solid, Liquid Gas, EHS</td>
</tr>
<tr>
<td>EHS Name:</td>
<td>[ ]</td>
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<thead>
<tr>
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<th>Trade Name: FREON 113 (cont'd)</th>
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</thead>
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<tr>
<td>Check all that apply:</td>
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</tr>
<tr>
<td>EHS Name:</td>
<td>[ ]</td>
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<table>
<thead>
<tr>
<th>CAS 0 0 0 7 6 1 3 1</th>
<th>Trade Name: FREON 113 (cont'd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check all that apply:</td>
<td>Pure, Min. Solid, Liquid Gas, EHS</td>
</tr>
<tr>
<td>EHS Name:</td>
<td>[ ]</td>
</tr>
</tbody>
</table>

## Physical and Health Hazards

- **Fire**: Sudden Release of Pressure
- **Reactivity**: Immediate (acute) Delayed (chronic)

## Inventory

- **Max. Daily Amount**: 0.4 tons
- **Avg. Daily Amount**: 0.4 tons
- **No. of Days On-Site**: [3 6 5]

## Storage Codes and Locations

### Storage Locations

- **9215
- **9201-2, 9201-3, 9202, 9206, 9212, 9215, 9270-2
- **9201-1, 9201-3, 9202, 9203, 9204-1, 9204-3, 9208, 9212, 9709, 9720-2
- **9720-20, 9995
- **9201-3, 9202, 9204-1, 9204-2, 9204-2E, 9204-3, 9204-4, 9206
- **9212, 9215, 9219, 9401-3, 9404-1, 9404-20, 9710-3, 9712, 9720-16

## Certification

- **I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 40, 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, Director Environment, Safety, Health and Quality**

- **Signature**: [Signature]

- **Date signed**: [ ]

---

*This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.*
### 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: (865) 576-9950
Mail Address: P.O. Box 2001, Oak Ridge, TN 37831

### Emergency Contact

Name: Plant Shift Superintendent
Title:
Phone: (865) 574-7172
24 Hr. Phone: (865) 574-7172
Name: DOE Emergency Response Center
Title: Plant Manager
Phone: (865) 576-1005
24 Hr. Phone: (865) 576-1005

### Tier Two

**Chemical Description**

- **Chem. Name:** Freon 12
- **CAS No.:** 000075718

### Inventory

<table>
<thead>
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<tr>
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<td>9215</td>
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### Storage Codes and Locations

- **Storage Locations:**
  - 9201-1; 9201-3; 9202; 9714; 9720-20; 9731; 9737
  - 9201-3; 9202; 9712; 9720-20; 9720-20; 9731; 9737
  - 9201-3; 9202; 9712; 9720-20; 9731; 9737

### Reporting Period

From January 1 to December 31, 1999

---

**Report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.**
### Chemical Description

<table>
<thead>
<tr>
<th>Chemical Description</th>
<th>Inventory</th>
<th>Storage Codes and Locations (Non-Confidential)</th>
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<tbody>
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<tr>
<td>Fire</td>
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<td></td>
</tr>
<tr>
<td>Sudden Release of Pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reactivity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immediate (acute)</td>
<td>0 4 Max. Daily Amount (code)</td>
<td>F 4 1 9202; 9204-1</td>
</tr>
<tr>
<td></td>
<td>Avg. Daily Amount (code)</td>
<td>F 4 2 9201-2; 9201-3; 9201-5; 9202; 9203; 9204-1; 9204-3; 9212; 9401-3</td>
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<tr>
<td></td>
<td>No. of Days On-Site (days)</td>
<td>L 4 1 9215; 9808; 9959</td>
</tr>
<tr>
<td></td>
<td></td>
<td>L 4 2 9201-3; 9206; 9208; 9420; 9720-8; 9737; 9808 / Refrigeration Shop</td>
</tr>
<tr>
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<td></td>
<td>L 4 2 9959; 9995</td>
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<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>Fire</td>
<td>0 4 Max. Daily Amount (code)</td>
<td>R 4 1 9201-1; 9201-3; 9204-3; 9767-10; 9767-11; 9767-12; 9767-13; 9767-13</td>
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<tr>
<td>Sudden Release of Pressure</td>
<td></td>
<td>9767-3</td>
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<tr>
<td>Reactivity</td>
<td>0 4 Avg. Daily Amount (code)</td>
<td>R 4 1 9767-4; 9767-8</td>
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<td>3 6 5 No. of Days On-Site (days)</td>
<td>R 4 2 9202</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire</td>
<td>0 4 Max. Daily Amount (code)</td>
<td>D 4 1 9201-5E; 9720-2 / Bay 40 Oil storage</td>
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<tr>
<td>Sudden Release of Pressure</td>
<td></td>
<td>F 4 1 9201-3; 9202; 9203; 9204-2E; 9995</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0 4 Avg. Daily Amount (code)</td>
<td>F 4 2 9201-3; 9204-2; 9212; 9714; 9720-20; 9720-6; 9995; 9998</td>
</tr>
<tr>
<td>Immediate (acute)</td>
<td>3 6 5 No. of Days On-Site (days)</td>
<td>L 4 1 9202</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M 4 1 9995</td>
</tr>
<tr>
<td></td>
<td></td>
<td>R 4 1 9201-3; 9202; 9212; 9720-2; 9737; 9995; UVSPF</td>
</tr>
</tbody>
</table>

### Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 40, 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, Director Environment, Safety, Health and Quality

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 safeguards
## Facility Identification

- **Name**: U.S. DOE Lockheed Martin Energy Systems Y-12 Plant
- **Street**: Bear Creek Road
- **City**: Oak Ridge
- **County**: Anderson
- **State**: TN
- **Zip**: 37831

### Tier Two

**Emergency and Hazardous Chemical Inventory**

<table>
<thead>
<tr>
<th>SIC Code</th>
<th>Code</th>
<th>Storage Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>4</td>
<td>9</td>
</tr>
</tbody>
</table>

### FOR OFFICIAL USE

- **ID #**
- **ID # Date Received**

---

## Physical and Health Hazards

### Inventory

- **Chemical Description**: GASOLINE, UNLEADED
- **CAS**: 71-36-3
- **EHS Name**:

#### Physical and Health Hazards

- **Fire**:
  - Immediate (acute)
  - Delayed (chronic)

- **Sudden Release of Pressure**:
  - Immediate (acute)
  - Delayed (chronic)

- **Reactivity**:
  - Immediate (acute)
  - Delayed (chronic)

### Storage Locations

- **Storage Codes and Locations**
  - **A 4 1**: 9201-5; 9204-3; 9204-4; 9709; 9712; 9770-1; 9984; 9995
  - **A 4 1**: EAST PINE RIDGE
  - **B 4 1**: 9714; Underground Tank; 9754-3; Underground Tank
  - **C 4 1**: 9202
  - **D 4 1**: 9401-1; 9720-13; 9986
  - **F 4 1**: 9201-1; 9201-2; Storage Shed; 9202; 9204-1; 9206; 9219; 9404-20

---

## Reporting Period

From January 1 to December 31, 1999

---

## Certification

I, [Owner/Operator Name], hereby under penalty of law, certify that I have personally examined and am familiar with the information submitted in pages one through 40, 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**: [Signature]

**Date signed**: [Date]

---

Optional Attachments

- [ ] I have attached a site plan
- [ ] I have attached a list of site coordinate abbreviations
- [ ] I have attached a description of risks and other safeguards

---

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

## Owner/Operator Name

- **Name:** U.S. Department of Energy

## Emergency Contact

- **Name:** Plant Shift Superintendent
- **Title:**
- **Phone:** (865) 574-7172

- **Name:** DOE Emergency Response Center
- **Title:**
- **Phone:** (865) 576-1005

## Reporting Period

- **From:** January 1 to December 31, 1999

## Chemical Description

### Physical and Health Hazards

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>Physical and Health Hazards</th>
<th>Inventory</th>
<th>Storage Codes and Locations</th>
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<tbody>
<tr>
<td>0  7 7 5 2 4 2 5</td>
<td>GRAPHITE-NATURAL/SYNTHETIC</td>
<td>Fire, Sudden Release of Pressure, Reactivity</td>
<td>X</td>
<td>F 4 1 9720-16; 9720-20; 9720-41</td>
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<tr>
<td>C</td>
<td></td>
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<td>Max. Daily Amount (code)</td>
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<tr>
<td></td>
<td></td>
<td>Delayed (chronic)</td>
<td>3  6</td>
<td>No. of Days On-Site (days)</td>
</tr>
<tr>
<td>0  7 7 8 2 4 2 5</td>
<td>GRAPHITE-NATURAL/SYNTHETIC</td>
<td>Fire, Sudden Release of Pressure, Reactivity</td>
<td>X</td>
<td>R 4 1 9215A; 9401-3; 9703-15; 9709; 9712; 9720-1; 9720-20; 9720-21</td>
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<tr>
<td>C</td>
<td></td>
<td>Immediate (acute)</td>
<td>0  5</td>
<td>Max. Daily Amount (code)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Delayed (chronic)</td>
<td>3  6</td>
<td>No. of Days On-Site (days)</td>
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<td>HELIUM</td>
<td>Fire, Sudden Release of Pressure, Reactivity</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td>Delayed (chronic)</td>
<td>3  6</td>
<td>No. of Days On-Site (days)</td>
</tr>
</tbody>
</table>

## Storage Codes and Locations

- **Storage Locations:**
  - F 4 1 9720-16; 9720-20; 9720-41
  - J 4 1 9202
  - K 4 1 9201-1; 9202; 9401-3; 9712
  - M 4 1 9202; 9203; 9995
  - N 4 1 9201-3; 9202; 9203; 9204-3; 9208; 9703-15; 9995
  - R 4 1 9201-1; 9201-3; 9201-5; 9203; 9204-1; 9204-2E; 9204-3; 9212; 9215
  - R 4 1 9215A; 9401-3; 9703-15; 9709; 9712; 9714; 9720-1; 9720-20; 9720-21
  - R 4 1 9720-6; 9737; 9831; 9995
  - R 4 2 9202
  - L 4 1 9201-3; 9203; 9204-2E; 9206; 9709; UVSPF
  - L 4 2 9201-1; 9201-2; 9201-3; 9201-5N; 9202; 9203; 9204-1 /Dock 119; 9204-2
  - L 4 2 9204-2/Maintenance; 9204-2E; 9204-3; 9206; 9208; 9404-1; 9404-8
  - L 4 2 9709; 9720-13; 9720-6; 9723-25; 9769; 9959; 9998; 9999; 9995; 9996
  - M 4 1 9999
  - Q 4 2 9977-1 / Gas Storage

## Certification

I, [Signature], certify that I have personally examined and am familiar with the information submitted in this form and that I believe that the submitted information is true, accurate, and complete.

By: [Signature]

Date: [Date]

This report covers only the activities of Lockheed Martin Energy Systems, Inc. at the subject facility.
**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:** 3449

**Owner/Operator Name**
- **Name:** U.S. Department of Energy
- **Phone:** (865) 576-9450

**Mail Address:** P.O. Box 2001, Oak Ridge, TN 37831

**Emergency Contact**
- **Name:** Plant Shift Superintendent
- **Title:**
- **Phone:**
  - (865) 574-7172
  - 24 Hr. Phone (865) 574-7172
- **Name:** DOE Emergency Response Center
- **Title:**
- **Phone:**
  - (865) 576-1005
  - 24 Hr. Phone (865) 576-1005

**Important:** Read all instructions before completing form.

**Reporting Period:** From January 1 to December 31, 1999

### Chemical Description

<table>
<thead>
<tr>
<th>CAS</th>
<th>Name</th>
<th>CAS</th>
<th>Name</th>
<th>CAS</th>
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<td>0071409597</td>
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<td>HYDROGEN (cont'd)</td>
<td>00133740</td>
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</tr>
</tbody>
</table>

**Physical and Health Hazards**
- Fire
- Sudden Release of Pressure
- Reactivity
- Immediate (acute)
- Delayed (chronic)

**Inventory**
- **Max. Daily Amount (code):**
  - 0 4
  - 0 4
  - 0 4
  - 0 4
  - 0 4
- **Avg. Daily Amount (code):**
  - 0 4
  - 0 4
  - 0 4
  - 0 4
  - 0 4
- **No. of Days On-Site (days):**
  - 3 6 5
  - 3 6 5
  - 3 6 5
  - 3 6 5
  - 3 6 5

**Storage Codes and Locations**
- **Storage Locations**
  - R 4 1
  - R 4 2
  - R 4 3
  - L 4 1
  - L 4 2
  - L 4 3
  - M 4 1
  - M 4 2
  - N 4 1
  - N 4 2
  - R 4 1
  - R 4 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 safety measures

**Certification:** Read and sign after completing all sections.

I hereby certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 40, and that based on my inquiries of those individuals responsible for obtaining the information, I believe that the submitted information is true, complete, and correct.

M.R. Dutz, Director Environment, Safety, Health and Quality

Signature: [Signature]

Date signed: [Date signed]

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

<table>
<thead>
<tr>
<th>Name</th>
<th>US DOE Lockheed Martin Energy Systems Y-12 Plant</th>
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<tbody>
<tr>
<td>Street</td>
<td>Bear Creek Road</td>
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<tr>
<td>City</td>
<td>Oak Ridge</td>
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<tr>
<td>County</td>
<td>Anderson</td>
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<tr>
<td>State</td>
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<td>Zip</td>
<td>37831</td>
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### Owner/Operator Name

<table>
<thead>
<tr>
<th>Name</th>
<th>U.S. Department of Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mail Address</td>
<td>P.O. Box 2001, Oak Ridge, TN 37831</td>
</tr>
<tr>
<td>Phone</td>
<td>(865) 576-5950</td>
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### Emergency Contact

<table>
<thead>
<tr>
<th>Name</th>
<th>Plant Shift Superintendent</th>
</tr>
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<tbody>
<tr>
<td>Phone</td>
<td>(865) 574-7172</td>
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<table>
<thead>
<tr>
<th>Name</th>
<th>DOE Emergency Response Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>(865) 576-1005</td>
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### Reporting Period

- From January 1 to December 31, 1999

### Chemical Description

#### Physical and Health Hazards

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<th>Hazard</th>
<th>CAS Number</th>
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<td>Fire</td>
<td>0076470100</td>
<td>HYDROGEN CHLORIDE</td>
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<td>Sudden Release of Pressure</td>
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<td>X</td>
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<tr>
<td>Reactivity</td>
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<td>X</td>
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<tr>
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<td>X</td>
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<tr>
<td>Delayed (chronic)</td>
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<td>X</td>
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#### Inventory

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<th>Type</th>
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<th>EHS Name</th>
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<tr>
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<td>9204-2</td>
<td>HYDROGEN CHLORIDE</td>
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<tr>
<td>D 4 1</td>
<td>9201-5</td>
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<td>E 4 1</td>
<td>9202; 9204-2E</td>
<td>HYDROGEN CHLORIDE</td>
</tr>
<tr>
<td>F 4 1</td>
<td>9202; 9204-1; 9404-5</td>
<td>HYDROGEN CHLORIDE</td>
</tr>
<tr>
<td>G 4 1</td>
<td>9995; UVSPF</td>
<td>HYDROGEN CHLORIDE</td>
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<td>L 4 1</td>
<td>9709</td>
<td>HYDROGEN CHLORIDE</td>
</tr>
</tbody>
</table>

### Storage Codes and Locations

#### Storage Locations

- A 041: 9204-2
- D 041: 9201-5
- E 041: 9202; 9204-2E
- F 041: 9202; 9204-1; 9404-5
- G 041: 9995; UVSPF
- L 041: 9709

### Certification

- I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 40, 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: [Signature]

- Date signed: [Date signed]

Additional notes:

- This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.
**Facility Identification**
- **Name**: US DOE Lockheed Martin Energy Systems Y-12 Plant
- **Street**: Bear Creek Road
- **City**: Oak Ridge
- **State**: TN
- **Zip**: 37831

**Chemical Description**
- **CAS**: 0786433
- **Chem Name**: HYDROGEN FLUORIDE
- **EHS Name**: HYDROGEN FLUORIDE
- **CAS**: 0786433 (cont'd)
- **Chem Name**: HYDROGEN FLUORIDE
- **EHS Name**: HYDROGEN FLUORIDE
- **CAS**: 0686730
- **Chem Name**: ISOPROPYL ALCOHOL
- **EHS Name**: ISOPROPYL ALCOHOL

**Physical and Health Hazards**
- Fire, Sudden Release of Pressure, Reactivity, Immediate (acute), Delayed (chronic)

**Inventory**
- Max. Daily Amount (code)
- Avg. Daily Amount (code)
- No. of Days On-Site (days)

**Storage Codes and Locations**
- **Storage Locations**
  - E 41: 9212
  - L 41: 9720-40
  - L 42: 9204-3
  - M 41: 9201-5N; 9202; 9204-3; 9204-4; 9212; 9212 / E Wing / Room 1021; 9720-2
  - M 41: 9769; 9995
  - N 41: 9202; 9204-2E / 3rd Floor; 9204-3; 9211; 9401-3; 9204-2; 9731; 9995
  - N 41: 9720-8; 9995
  - R 41: 9720-8; 9995

**Storage Locations**
- **UVSPF**: 9720-8; 9995
- **F 41**: 9201-1; 9201-5; 9201-5N; 9204-2; 9208; 9720-8
- **M 41**: 9103; 9202; 9206; 9204-2; 9720-8; 9737
- **N 41**: 9203; 9204-2E; 9207; 9212; 9401-1; 9714; 9720-2; 9723-25; 9737; 9738
- **N 41**: 9995; Firing Range; UVSPF

**Certification**

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

Signature: [Signature]

Date signed: [Date]

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

Optional Attachments
- I have attached a site plan
- I have attached a list of site coordinate abbreviations
- I have attached a description of drags and other safeguard measures
### Tier Two
**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

**Owner/Operator Name**
- Name: U.S. Department of Energy
- Phone: (865) 576-9650

**FOR OFFICIAL USE ONLY**
- Date Received

**Physical and Health Hazards**
- **Checking all that apply**
  - [ ] Fire
  - [ ] Sudden Release of Pressure
  - [ ] Reactivity
  - [ ] Immediate (acute)
  - [ ] Delayed (chronic)

**Inventory**
- **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**
- **Storage Locations**
  - Case 1
  - Case 2
  - Case 3

**Storage Codes**
- **C 4 1 9204-4; 9215**

**Storage Locations**
- **Case 1**
  - 9204-4; 9215

**Certification**
- I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 40, 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**

---

**Important: Read all instructions before completing form.**

**Reporting Period**
- From January 1 to December 31, 1999

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

**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

**Owner/Operator Name**
- Name: U.S. Department of Energy
- Phone: (865) 576-9650

**FOR OFFICIAL USE ONLY**
- Date Received

**Physical and Health Hazards**
- **Checking all that apply**
  - [ ] Fire
  - [ ] Sudden Release of Pressure
  - [ ] Reactivity
  - [ ] Immediate (acute)
  - [ ] Delayed (chronic)

**Inventory**
- **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**
- **Storage Locations**
  - Case 1
  - Case 2
  - Case 3

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  - 9204-4; 9215

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**Date signed**

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- From January 1 to December 31, 1999

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- Name: US DOE Lockheed Martin Energy Systems Y-12 Plant
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- County: Anderson
- State: TN
- Zip: 37831

**Owner/Operator Name**
- Name: U.S. Department of Energy
- Phone: (865) 576-9650

**FOR OFFICIAL USE ONLY**
- Date Received

**Physical and Health Hazards**
- **Checking all that apply**
  - [ ] Fire
  - [ ] Sudden Release of Pressure
  - [ ] Reactivity
  - [ ] Immediate (acute)
  - [ ] Delayed (chronic)

**Inventory**
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**Storage Codes and Locations**
- **Storage Locations**
  - Case 1
  - Case 2
  - Case 3

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**Storage Locations**
- **Case 1**
  - 9204-4; 9215

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**Signature**

**Date signed**

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**Important: Read all instructions before completing form.**

**Reporting Period**
- From January 1 to December 31, 1999

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- Name: US DOE Lockheed Martin Energy Systems Y-12 Plant
- Street: Bear Creek Road
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- County: Anderson
- State: TN
- Zip: 37831

**Owner/Operator Name**
- Name: U.S. Department of Energy
- Phone: (865) 576-9650

**FOR OFFICIAL USE ONLY**
- Date Received

**Physical and Health Hazards**
- **Checking all that apply**
  - [ ] Fire
  - [ ] Sudden Release of Pressure
  - [ ] Reactivity
  - [ ] Immediate (acute)
  - [ ] Delayed (chronic)

**Inventory**
- **Max. Daily Amount (code)**: 0 4
- **Avg. Daily Amount (code)**: 0 4
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**Storage Codes and Locations**
- **Storage Locations**
  - Case 1
  - Case 2
  - Case 3

**Storage Codes**
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**Storage Locations**
- **Case 1**
  - 9204-4; 9215

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**Signature**

**Date signed**

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**Important: Read all instructions before completing form.**

**Reporting Period**
- From January 1 to December 31, 1999

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

**Facility Identification**
- Name: US DOE Lockheed Martin Energy Systems Y-12 Plant
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- State: TN
- Zip: 37831

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- Name: U.S. Department of Energy
- Phone: (865) 576-9650

**FOR OFFICIAL USE ONLY**
- Date Received

**Physical and Health Hazards**
- **Checking all that apply**
  - [ ] Fire
  - [ ] Sudden Release of Pressure
  - [ ] Reactivity
  - [ ] Immediate (acute)
  - [ ] Delayed (chronic)

**Inventory**
- **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**
- **Storage Locations**
  - Case 1
  - Case 2
  - Case 3

**Storage Codes**
- **C 4 1 9204-4; 9215**

**Storage Locations**
- **Case 1**
  - 9204-4; 9215

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**Signature**

**Date signed**

---
### 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

### Owner/Operator Name

- **Name**: U.S. Department of Energy
- **Phone**: (865) 576-0650

### Emergency Contact

- **Name**: Plant Shift Superintendent
- **Phone**: (865) 574-7172
- **Title**: Title
- **Mail Address**: P. O. Box 2001, Oak Ridge, TN 37831

### Reporting Period

From January 1 to December 31, 1999

### Chemical Description

- **CAS**: 07580-67-0
- **Chemical Name**: LITHIUM HYDROXIDE
- **Physical Form**: Solid

- **CAS**: 01310-65-2
- **Chemical Name**: LITHIUM HYDROXIDE
- **Physical Form**: Solid

- **CAS**: 01317-71-1
- **Chemical Name**: MAGNESIUM IRON SILICATE
- **Physical Form**: Solid

### Inventory

- **CAS**: 07580-67-0
  - **Item**: Fire
  - **Immediate (acute)**: No.
  - **Delayed (chronic)**: No.
  - **No. of Days On-Site (days)**: 5

- **CAS**: 01310-65-2
  - **Item**: Fire
  - **Immediate (acute)**: No.
  - **Delayed (chronic)**: No.
  - **No. of Days On-Site (days)**: 5

- **CAS**: 01317-71-1
  - **Item**: Fire
  - **Immediate (acute)**: No.
  - **Delayed (chronic)**: No.
  - **No. of Days On-Site (days)**: 5

### Storage Codes and Locations (Non-Confidential)

- **CAS**: 07580-67-0
  - **Storage Locations**: 9201-5; 9204-2; 9720-46

- **CAS**: 01310-65-2
  - **Storage Locations**: 9202; 9731

- **CAS**: 01317-71-1
  - **Storage Locations**: 9202; 9203; 9995

### Optional Attachments

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

---

*This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.*
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: 3479
FOR
OFFICIAL USE
ONLY 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
Title: 24 Hr. Phone: (865) 574-7172
Name: DOE Emergency Response Center
Title: 24 Hr. Phone: (865) 576-1005

Import: Read all instructions before completing form
Reporting Period: From January 1 to December 31, 1999

Physical and Health Hazards
(check all that apply)

<table>
<thead>
<tr>
<th>Chemical Description</th>
<th>Inventory</th>
<th>Storage Codes and Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAGNESIUM OXIDE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAGNESIUM OXIDE (cont')</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAGNETITE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 40, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, complete, and correct.

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 safeguards
**Facility Identification**

- **Name:** U.S. Department of Energy
- **Address:** P.O. Box 2001, Oak Ridge, TN 37831
- **Mail Address:** P.O. Box 2001, Oak Ridge, TN 37831
- **SIC Code:** 4953

**Emergency Contact**

- **Name:** Plant Shift Superintendent
- **Title:**
- **Phone:** (865) 574-7172
- **24 Hr. Phone:** (865) 574-7172

**Physical and Health Hazards**

- **Chemical Description:**
  - CAS #: 7439-9-3
  - Name: Mercury Metal
  - Hazard: Fire, Sudden Release of Pressure, Reactivity, Immediate (acute), Delayed (chronic)

- **Chemical Description:**
  - CAS #: 67-56-1
  - Name: Methanol
  - Hazard: Fire, Sudden Release of Pressure, Reactivity, Immediate (acute), Delayed (chronic)

**Inventory**

- **Chemical:** Mercury Metal
  - **Max. Daily Amount:** 9204-1, 9204-2
  - **Avg. Daily Amount:** 9204-3, 9204-5
  - **No. of Days On-Site:**

- **Chemical:** Methanol
  - **Max. Daily Amount:** 9401-1, 9401-2, 9404-1
  - **Avg. Daily Amount:** 9401-3, 9401-6
  - **No. of Days On-Site:**

**Storage Codes and Locations**

- **Storage Locations:**
  - **Code:** L
    - **Location:** 9204-1, 9204-2
  - **Code:** M
    - **Location:** 9204-3, 9204-4
  - **Code:** N
    - **Location:** 9204-5, 9204-6

**Signature and Date**

- **Signature:**
- **Date Signed:**

---

**Facility Identification (Non-Confidential)**

- **Owner/Operator Name:**
  - **Name:**
  - **Phone:** (865) 576-1005

- **Mail Address:**
  - **P.O. Box:** 2001, Oak Ridge, TN 37831

- **SIC Code:** 4953

**Physical and Health Hazards**

- **Check all that apply:**
  - Fire
  - Sudden Release of Pressure
  - Reactivity
  - Immediate (acute)
  - Delayed (chronic)

**Inventory**

- **Chemical:** Mercury Metal
  - **Max. Daily Amount:** 9204-1, 9204-2
  - **Avg. Daily Amount:** 9204-3, 9204-5
  - **No. of Days On-Site:**

- **Chemical:** Methanol
  - **Max. Daily Amount:** 9401-1, 9401-2, 9404-1
  - **Avg. Daily Amount:** 9401-3, 9401-6
  - **No. of Days On-Site:**

**Storage Codes and Locations**

- **Code:** L
  - **Location:** 9204-1, 9204-2
- **Code:** M
  - **Location:** 9204-3, 9204-4
- **Code:** N
  - **Location:** 9204-5, 9204-6
### Chemical Description

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chem. Name</th>
<th>Physical and Health Hazards</th>
<th>Inventory</th>
<th>Storage Codes and Locations (Non-Confidential)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000087561</td>
<td>METHANOL (cont'd)</td>
<td>Fire, Sudden Release of Pressure, Reactivity, Immediate (acute), Delayed (chronic)</td>
<td>Max. Daily Amount (code)</td>
<td>N 4 1 9219; 9401-1, 9401-3, 9404-5, 9420; 9704-1, 9710-3, 9712, 9714; 9720-2</td>
</tr>
<tr>
<td>0000087561</td>
<td>METHANOL (cont'd)</td>
<td>Fire, Sudden Release of Pressure, Reactivity, Immediate (acute), Delayed (chronic)</td>
<td>Max. Daily Amount (code)</td>
<td>N 4 1 9720-20, 9720-41, 9723-14, 9723-25, 9731, 9733-1, 9737, 9769, 9995</td>
</tr>
<tr>
<td>0000087561</td>
<td>METHYL CHLOROFORM</td>
<td>Fire, Sudden Release of Pressure, Reactivity, Immediate (acute), Delayed (chronic)</td>
<td>Max. Daily Amount (code)</td>
<td>R 4 1 9103; 9201-1, 9201-5, 9203, 9204-26, 9210, 9211, 9212, 9215</td>
</tr>
<tr>
<td>0000087561</td>
<td>METHYL CHLOROFORM</td>
<td>Fire, Sudden Release of Pressure, Reactivity, Immediate (acute), Delayed (chronic)</td>
<td>Max. Daily Amount (code)</td>
<td>R 4 1 9219, 9220, 9401-1, 9706-2, 9712, 9714, 9720-6, 9720-8</td>
</tr>
<tr>
<td>0000087561</td>
<td>METHYL CHLOROFORM</td>
<td>Fire, Sudden Release of Pressure, Reactivity, Immediate (acute), Delayed (chronic)</td>
<td>Max. Daily Amount (code)</td>
<td>D 4 1 9204-2, 9720-21</td>
</tr>
<tr>
<td>0000087561</td>
<td>METHYL CHLOROFORM</td>
<td>Fire, Sudden Release of Pressure, Reactivity, Immediate (acute), Delayed (chronic)</td>
<td>Max. Daily Amount (code)</td>
<td>F 4 1 9201-1, 9201-2, 9201-3, 9201-5, 9202, 9203, 9204-1, 9204-2, 9204-4</td>
</tr>
<tr>
<td>0000087561</td>
<td>METHYL CHLOROFORM</td>
<td>Fire, Sudden Release of Pressure, Reactivity, Immediate (acute), Delayed (chronic)</td>
<td>Max. Daily Amount (code)</td>
<td>F 4 1 9206; 9208; 9215; 9219; 9401-3, 9420; 9610; 9712, 9714; 9720-13</td>
</tr>
<tr>
<td>0000087561</td>
<td>METHYL CHLOROFORM</td>
<td>Fire, Sudden Release of Pressure, Reactivity, Immediate (acute), Delayed (chronic)</td>
<td>Max. Daily Amount (code)</td>
<td>F 4 1 9720-16, 9720-20, 9726-6, 9728-4, 9723-25, 9731-1, 9737, 9995, 9908</td>
</tr>
<tr>
<td>0000087561</td>
<td>METHYL CHLOROFORM</td>
<td>Fire, Sudden Release of Pressure, Reactivity, Immediate (acute), Delayed (chronic)</td>
<td>Max. Daily Amount (code)</td>
<td>F 4 2 9201-1, 9201-3, 9201-5, 9202, 9204-1, 9204-2, 9204-2E, 9204-3, 9204-4</td>
</tr>
<tr>
<td>0000087561</td>
<td>METHYL CHLOROFORM</td>
<td>Fire, Sudden Release of Pressure, Reactivity, Immediate (acute), Delayed (chronic)</td>
<td>Max. Daily Amount (code)</td>
<td>F 4 2 9206; 9208; 9212; 9219; 9401-3, 9404-1, 9404-3, 9404-1, 9704-1, 9714; 9720-13</td>
</tr>
</tbody>
</table>

**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 40, 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, Director Environment, Safety, Health and Quality

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

Signature

Date signed

This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.
## Chemical Description and Inventory

### Physical and Health Hazards

- Fire
- Sudden Release of Pressure
- Reactivity
- Immediate (acute)
- Delayed (chronic)

### Inventory

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>Trade Name</th>
<th>Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 0 0 0 7 1 5 5 6</td>
<td>METHYL CHLOROFORM</td>
<td>cont'd</td>
<td>0 4</td>
</tr>
<tr>
<td>0 0 0 0 7 1 5 5 6</td>
<td>METHYL CHLOROFORM</td>
<td>cont'd</td>
<td>0 4</td>
</tr>
<tr>
<td>0 0 0 0 7 1 5 5 6</td>
<td>METHYL CHLOROFORM</td>
<td>cont'd</td>
<td>0 4</td>
</tr>
</tbody>
</table>

### Storage Codes and Locations

- **Chemical Description**
  - Fire
  - Sudden Release of Pressure
  - Reactivity
  - Immediate (acute)
  - Delayed (chronic)

- **Inventory**
  - Max. Daily Amount (code)
  - Avg. Daily Amount (code)

- **Storage Locations**
  - Storage Codes
  - Locations

### Storage Codes and Locations (Non-Confidential)

- **Chemical Description**
  - Fire
  - Sudden Release of Pressure
  - Reactivity
  - Immediate (acute)
  - Delayed (chronic)

- **Inventory**
  - Max. Daily Amount (code)
  - Avg. Daily Amount (code)

- **Storage Locations**
  - Storage Codes
  - Locations

---

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Signature: [Signature]

Date signed: [Date signed]
### 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

### Chemical Description

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Chemical Name</th>
<th>Physical and Health Hazards</th>
<th>Inventory</th>
<th>Storage Codes and Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>007410</td>
<td>NICKEL AND NICKEL COMPOUND</td>
<td>Fire: Sudden Release of Pressure</td>
<td>Max. Daily Amount (code): 004</td>
<td>R 4 1 9201-5; 9204-3; 9212; 9720-2; 9720-8</td>
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<tr>
<td></td>
<td></td>
<td>Reactivity: Immediate (acute)</td>
<td>Avg. Daily Amount (code): 004</td>
<td>D 4 1 9202</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>No. of Days On-Site (days): 03</td>
<td>M 4 1 9202-9203; 9204-3; 9995; UVSPF</td>
</tr>
<tr>
<td>007410</td>
<td>NIOBIUM METAL</td>
<td>Fire: Sudden Release of Pressure</td>
<td>Max. Daily Amount (code): 004</td>
<td>R 4 1 9201-1; 9202; 9206; 9212; 9401-3; 9420; 9703-15; 9709; 9720-33; 9720-6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reactivity: Immediate (acute)</td>
<td>Avg. Daily Amount (code): 004</td>
<td>R 4 1 9723-25; 9737; 9738; 9831; 9995; 9998</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>No. of Days On-Site (days): 03</td>
<td></td>
</tr>
</tbody>
</table>
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: (865) 576-9850
Mail Address: P.O. Box 2001, Oak Ridge, TN 37831

Emergency Contact
Name: Plant Shift Superintendent
Title: Title
Phone: (865) 574-7172
24-Hr. Phone: (865) 574-7172
Name: DOE Emergency Response Center
Title: Title
Phone: (865) 576-1005
24-Hr. Phone: (865) 576-1005

Physical and Health Hazards
- Fire
- Sudden Release of Pressure
- Reactivity: Immediate (acute)
- Delayed (chronic)

Check all that apply:
- X Immediate (acute)
- X Delayed (chronic)

Chemical Description
CAS: 007687372
Chem. Name: NITRIC ACID

Inventory
- Max. Daily Amount (code)
- Avg. Daily Amount (code)
- No. of Days On-Site (days)

Storage Codes and Locations
- Storage Locations:

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

J.R. Butz, Director Environment, Safety, Health and Quality
Signature: J.R. Butz
Date signed: [Date]

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<table>
<thead>
<tr>
<th>Physical and Health Hazards</th>
<th>Inventory</th>
<th>Storage Codes and Locations (Non-Confidential)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Location</td>
</tr>
<tr>
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<tr>
<td>CAS 007727379 Nitrogen</td>
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</tbody>
</table>

Certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 40, 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: [Signature]
Date signed: [Date signed]
## 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

## Owner/Operator Name
- **Name**: U.S. Department of Energy
- **Phone**: (865) 576-9850
- **Mail Address**: P.O. Box 2001, Oak Ridge, TN 37831

## Emergency Contact
- **Name**: Plant Shift Superintendent
- **Title**: Title
- **Phone**: (865) 574-7172
- **24 Hr. Phone**: (865) 574-7172

## Chemical Description

### Nitrogen (cont'd)
- **CAS No**: 007727-379
- **Chem. Name**: Nitrogen
- **Check all that apply**: Solid
- **Physical and Health Hazards**
  - **Fire**: X
  - **Sudden Release of Pressure**: X
  - **Reactivity**: Immediate (acute) delayed (chronic)
- **Inventory**
  - Max. Daily Amount (code)
  - Avg. Daily Amount (code)
  - No. of Days On-Site (days)

### Oxygen (cont'd)
- **CAS No**: 007782-447
- **Chem. Name**: Oxygen
- **Check all that apply**: Gas
- **Physical and Health Hazards**
  - **Fire**: X
  - **Sudden Release of Pressure**: X
  - **Reactivity**: Immediate (acute) delayed (chronic)
- **Inventory**
  - Max. Daily Amount (code)
  - Avg. Daily Amount (code)
  - No. of Days On-Site (days)

## Storage Codes and Locations

### Nitrogen (cont'd)
- **Location Code**: R71, R72
- **Storage Locations**
  - 9215A; 9720-2; 9977-1
  - 9201-1; 9204-1; 9212; 9720-32; 9720-5

### Oxygen (cont'd)
- **Location Code**: L42
- **Storage Locations**
  - 9723-25; 9738/Foundry; 9977-1
  - 9114; 9201-1; 9201-2; 9201-3; 9201-5; 9202; 9203; 9204-1
  - 9204-2/Maintenance; 9204-2E; 9204-1/2nd Floor; 9204-3; 9204-4
  - 9206; 9215/MWing; 9401-1; 9401-3; 9404-8; 9420; 9703-15; 9706-2
  - 9709; 9709/Weld Test Shop; 9710-2; 9714; 9720-6; 9720-8; 9731; 9737
  - 9738; 9738/Foundry; 9769; 9808; 9831; 9990; 9999
  - 9995

## Certification
- **Name**: R. Rutz, Director Environment, Safety, Health and Quality
- **Date signed**: Date signed

This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.
## 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
Phone: (865) 570-9950
Mail Address: P.O. Box 2001, Oak Ridge, TN 37831

## 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
Title: 
Phone: (865) 574-7172
24 Hr. Phone: (865) 574-7172

Name: DOE Emergency Response Center
Title: 
Phone: (865) 576-1005
24 Hr. Phone: (865) 576-1005

## Reporting Period
From January 1 to December 31, 1999

---

## Chemical Description

### CAS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
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<td>PETROLEUM OIL (cont'd)</td>
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<td>CAS</td>
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### Chemical Name

<table>
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<tr>
<th>Description</th>
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<tr>
<td>PETROLEUM OIL (cont'd)</td>
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<tr>
<td>PETROLEUM OIL (cont'd)</td>
</tr>
</tbody>
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### Physical and Health Hazards

- **Fire**
- **Sudden Release of Pressure**
- **Reactivity**
- **Immediate (acute)**
- **Delayed (chronic)**

### Inventory

<table>
<thead>
<tr>
<th>Code</th>
<th>Max. Daily Amount (code)</th>
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<tbody>
<tr>
<td>D 4 1</td>
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<td>9709; 9712; 9714; TSD Garage; 9720-15; 9720-16; 9720-20; 9720-25</td>
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### Storage Codes and Locations

<table>
<thead>
<tr>
<th>Storage Locations</th>
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---

## Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 40, 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.

R. R. Butz, Director Environment, Safety, Health and Quality

---

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

<table>
<thead>
<tr>
<th>Name</th>
<th>US DOE Lockheed Martin Energy Systems Y-12 Plant*</th>
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<tbody>
<tr>
<td>Street</td>
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<tr>
<td>City</td>
<td>Oak Ridge</td>
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<tr>
<td>County</td>
<td>Anderson</td>
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<tr>
<td>State</td>
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### Owner/Operator Name

<table>
<thead>
<tr>
<th>Name</th>
<th>U.S. Department of Energy</th>
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</thead>
<tbody>
<tr>
<td>Phone</td>
<td>(865) 576-9950</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Mail Address</th>
<th>P.O. Box 2001, Oak Ridge, TN 37831</th>
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<tr>
<td>Emergency Contact</td>
<td>Plant Shift Superintendent</td>
</tr>
<tr>
<td>Phone</td>
<td>(865) 574-7172</td>
</tr>
<tr>
<td>Mourning</td>
<td>DOE Emergency Response Center</td>
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<tr>
<td>Title</td>
<td></td>
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<tr>
<td>Phone</td>
<td>(865) 576-1005</td>
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### Chemical Description

<table>
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<tr>
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<th>Petroleum Oil (cont'd)</th>
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<td>Gas</td>
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<td>Other</td>
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| Inventory            | Max. Daily Amount (code)                         |

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<th>Physical and Health Hazards</th>
<th>CAS</th>
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<td>Sudden Release of Pressure</td>
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<tr>
<td>Reactivity</td>
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<tr>
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<td>Delayed (chronic)</td>
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<tr>
<td>Avg. Daily Amount (code)</td>
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<td>No. of Days On-Site (days)</td>
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### Storage Codes and Locations

<table>
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<tr>
<th>Storage Codes and Locations (Non-Confidential)</th>
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<tbody>
<tr>
<td>F 4 2 9401-1: 9401-3; 9404-1: 9404-5: 9404-8: 9424: 9710-3: 9712: 9714</td>
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<tr>
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<tr>
<td>EF 4 1 9995; 9998</td>
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</tbody>
</table>

### Reporting Period

- From January 1 to December 31, 1999

### Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 40 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.

R. Bultz, Director Environment, Safety, Health and Quality

<table>
<thead>
<tr>
<th>Date signed</th>
<th>Signature</th>
</tr>
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<tbody>
<tr>
<td></td>
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</tbody>
</table>

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

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 containment 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:** 3449

**Dun & Brad Number:**

**FOR OFFICIAL USE ONLY**

**ID #**

**Date Received**

**Owner/Operator Name**

**Name:** U.S. Department of Energy

**Phone:** (865) 576-6850

**Mail Address:** P.O. Box 2001, Oak Ridge, TN 37831

**Emergency Contact**

**Name:** Plant Shift Superintendent

**Title:**

**Phone:** (865) 574-7172

**Name:** DOE Emergency Response Center

**Title:**

**Phone:** (865) 576-1005

**Reporting Period**

From January 1 to December 31, 1999

**Important:** Read all instructions before completing form.

**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 forty, 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.

Old R. Butz, Director Environment, Safety, Health and Quality

Name and official title of owner/operator or owner/operator’s authorized representative

Signature

Date signed

**Chemical Description**

**Chemical Name:** PETROLEUM OIL

**CAS:** 01009002884

**EHS Name:**

**Physical and Health Hazards**

- Fire
- Sudden Release of Pressure
- Reactivity
- Immediate (acute)
- Delayed (chronic)

**Inventory**

<table>
<thead>
<tr>
<th>Max. Daily Amount (code)</th>
<th>Avg. Daily Amount (code)</th>
<th>No. of Days On-Site (days)</th>
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</thead>
<tbody>
<tr>
<td>005</td>
<td>005</td>
<td>365</td>
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</tbody>
</table>

**Storage Codes and Locations (Non-Confidential)**

**Storage Locations**

**Certification:**

This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.
## 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:** (865) 576-9850
- **Mail Address:** P.O. Box 2001, Oak Ridge, TN 37831

## Emergency Contact

- **Name:** DOE Emergency Response Center
- **Title:** Title
- **Phone:** (865) 576-1005
- **24 Hr. Phone:** (865) 576-1005

## Reporting Period

- **From:** January 1 to December 31, 1999

## Physical and Health Hazards

<table>
<thead>
<tr>
<th>Chemical Description</th>
<th>Inventory</th>
<th>Storage Codes and Locations (Non-Confidential)</th>
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</thead>
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<td><strong>CAS 065097151</strong></td>
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<tr>
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<td>SIC Name PORTLAND CEMENT (cont'd)</td>
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<td><strong>CAS 000584087</strong></td>
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<tr>
<td>Chem. Name POTASSIUM CARBONATE</td>
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<tr>
<td>SIC Name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EHS Name</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 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 safety/containment measures

---

Signatures:

- **Ad R. Bultz,** Director Environment, Safety, Health and Quality
- **Signature**
- **Date signed**

This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.
### Facility Identification
- **Name:** US DOE Lockheed Martin Energy Systems Y-12 Plant
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- **State:** TN
- **Zip Code:** 37831

### 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:** (865) 574-7172
- **Title:** 24 Hr. Phone
- **Name:** DOE Emergency Response Center
- **Phone:** (865) 576-1005

### Chemical Description and Health Hazards
- **CAS Number:** 7789-04-7
- **Chem. Name:** POTASSIUM CYANIDE
- **Immediate (acute):**
  - Fire
  - Sudden Release of Pressure
  - Reactivity
- **Delayed (chronic):**
  - Immediate (acute)
  - Delayed (chronic)

### Inventory
- **Max. Daily Amount:**
  - Code: 8
- **Avg. Daily Amount:**
  - Code: 2
- **No. of Days On-Site:**
  - Code: 3
  - Code: 6

### Storage Codes and Locations
- **Location:**
  - 9201-5N
  - 9706-2 / 1st Floor
  - 9204-3 / 1st Floor
  - 9401-4
  - 9202
  - 9995 / 1st Floor

### Storage Codes and Locations (Non-Confidential)
- **Location:**
  - 9215
  - 9201-5E; 9201-5N; 9206; 9212 / A Wing; 9212 / B-1 Wing
  - 9215 / M Wing
  - 9401-3; 9720-2; 9767-4; 9805; 9805-1; 9996
  - 9201-2; 9202; 9204-2E; 9204-2E; 9207; 9208; 9215
  - 9401-3; 9404-5; 9703-15; 9712; 9720-8; 9737; 9831; 9993-83; 9996
  - 9710-3; 9720-41; 9811-1

### Optional Attachments
- I have attached a site plan
- I have attached a list of site coordinate abbreviations
- I have attached a description of dives and other safeguard measures

---

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**Signature:** [Signature]

**Date:** [Date signed]
<table>
<thead>
<tr>
<th>Chemical Description</th>
<th>Physical and Health Hazards</th>
<th>Inventory</th>
<th>Physical and Health Hazards</th>
<th>Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS 0 0 0 0 5 7 5 5 6</td>
<td>Fire</td>
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<td>On-Site (days)</td>
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<td>CAS 0 1 4 0 0 8 6 0 7</td>
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</tr>
<tr>
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<td>X</td>
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<td></td>
<td>0 4</td>
<td>X</td>
<td>On-Site (days)</td>
</tr>
</tbody>
</table>

**Certification**: I hereby certify that I have personally examined the information submitted in this form and am familiar with the information submitted in pages one through forty, and that based upon my inquiry of those individuals responsible for obtaining the information, I believe the submitted information is true, accurate, and complete.

Director, Environment, Safety, Health and Quality:

Signature:

Date signed:

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

### Owner/Operator Name

- **Name:** U.S. Department of Energy
- **Phone:** (865) 576-5850

### Emergency Contact

- **Name:** Plant Shift Superintendent
- **Title:**
- **Phone:** (865) 576-5850
- **24 Hr. Phone:** (865) 576-1005

### Reporting Period

- **From January 1 to December 31, 1999**

### Chemical Description

<table>
<thead>
<tr>
<th>CAS</th>
<th>Trade Name</th>
<th>Physical and Health Hazards</th>
<th>Inventory</th>
<th>Storage Codes and Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>014808697</td>
<td>Silica, Crystalline Quartz</td>
<td>Fire, Sudden Release of Pressure</td>
<td>R419201-3</td>
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<tr>
<td>007631905</td>
<td>Sodium Bisulfite</td>
<td>Fire, Sudden Release of Pressure</td>
<td>R49417-9</td>
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### Physical and Health Hazards

- **Immediate (acute):**
- **Delayed (chronic):**

### Inventory

- **Max. Daily Amount (code):**
- **Avg. Daily Amount (code):**
- **No. of Days On-Site (days):**

### Storage Codes and Locations

- **Non-Confidential:**

### Certification

- **Signature:**
- **Date signed:**

---

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

Specific identification by Chemical

<table>
<thead>
<tr>
<th>Chemical Description</th>
<th>Physical and Health Hazards</th>
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<tr>
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<tr>
<td>Chem. Name SODIUM CARBONATE MONOHYDRATE</td>
<td>Sudden Release of Pressure</td>
<td>Avg. Daily Amount (code) H 4 1 9202; 9204-3; 9211; 9769; 9995; UVSPF</td>
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</tr>
<tr>
<td>X Reactivity</td>
<td>X Immediate (acute)</td>
<td>No. of Days On-Site (days) I 4 1 9202; 9204-4; 9215</td>
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<td>CAS 003647 14 5</td>
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<tr>
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<td>X Immediate (acute)</td>
<td>No. of Days On-Site (days) L 4 1 9202; 9203; 9204-3; 9210; 9211; 9720-2; 9737; 9995; UVSPF</td>
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</tr>
<tr>
<td>X Delayed (chronic)</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 40, 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.

Hold R. Butz, Director Environment, Safety, Health and Quality

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

Signature

Date signed

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**
- 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: U.S. Department of Energy
- Mail Address: P.O. Box 2001, Oak Ridge, TN 37831

**Physical and Health Hazards**
- Chemical Description:
  - Sodium Chloride
  - Sodium Hydroxide

**Inventory**
- Chemical: Sodium Chloride
- CAS Number: 7647-14-5
- Max. Daily Amount (code): 9113, 9202, 9203, 9204, 9205, 9206, 9210, 9211, 9215
- No. of Days On-Site (days): 9766, 9769, 9995, UVSPF
- Chemical: Sodium Hydroxide
- CAS Number: 1310-73-2
- Max. Daily Amount (code): 9204-2
- Avg. Daily Amount (code): 9404-18

**Storage Codes and Locations**
- Storage Locations:
  - N 4 1
  - A 4 1
  - F 4 1

**Certification**
- I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 40, 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 safety and other safeguards measures

**Footer**
- Rev: June 1999
- Form Approved OMB No. 2050-0072
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: 3429

Owner/Operator Name
Name: U.S. Department of Energy
Phone: (865) 576-5850
Mail Address: P.O. Box 2001, Oak Ridge, TN 37831

Emergency Contact
Name: Plant Shift Superintendent
Title: Plant Manager
Phone: (865) 576-1005

Name: DOE Emergency Response Center
Title: DOE Emergency Response Center
Phone: (865) 576-1005

Chemical Description
<table>
<thead>
<tr>
<th>CAS</th>
<th>Name</th>
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<th>Inventory</th>
<th>Storage Codes and Locations</th>
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<td>N 4 1 9201-5; UVSPF</td>
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<td>N 4 1 9201-2; UVSPF</td>
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</tbody>
</table>

Physical and Health Hazards (check all that apply)
- Fire
- Sudden Release of Pressure
- Reactivity
- Immediate (acute)
- Delayed (chronic)

Certification
I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 40, 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.

R. Butz, Director Environment, Safety, Health and Quality

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 sites and other safeguards
Facility Identification
Name: U.S. Department of Energy

Owner/Operator Name
Name: U.S. Department of Energy

Emergency Contact
Name: DOE Emergency Response Center

Physical and Health Hazards

Chemical Description
CAS: 007681529 Trade Name: SODIUM HYPOCHLORITE

Inventory
Max. Daily Amount (code)
Avg. Daily Amount (code)
No. of Days On-Site (days)

Storage Codes and Locations (Non-Confidential)

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 40, 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: [Signature]
Date signed: [Date]

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*
### Reporting Period
From January 1 to December 31, 1999

### Physical and Health Hazards

<table>
<thead>
<tr>
<th>Chemical Description</th>
<th>Inventory</th>
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<td>Avg. Daily Amount (code)</td>
<td><strong>F 4 1</strong></td>
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<td>No. of Days On-Site (days)</td>
<td><strong>K 4 1</strong></td>
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### Important
Read all instructions before completing form

**Certification:**
Read and sign after completing all sections

Under penalty of law, I have personally examined and am familiar with the information submitted in this report. I believe that the submitted information is true, accurate, and complete.

**Signature:**
Date signed

This report covers only the activities of Lockheed Martin Energy Systems, Inc., at the subject facility.
### 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**: 3419

### Owner/Operator Name
- **Name**: U.S. Department of Energy
- **Mail Address**: P.O. Box 2001, Oak Ridge, TN 37831
- **Phone**: (865) 570-9950

### Emergency Contact
- **Name**: Plant Shift Superintendent
- **Title**: Title
- **Phone**: (865) 574-7172
- **Name**: DOE Emergency Response Center
- **Title**: Title
- **Phone**: (865) 576-1005

### Reporting Period
- **From**: January 1 to December 31, 1999

### Physical and Health Hazards
- **CAS Number**: 0000057136
- **Chemical Name**: UREA
- **Check all that apply**: Fire, Sudden Release of Pressure, Reactivity, Immediate (acute), Delayed (chronic)

### Inventory
- **Chemical Description**: Inventory
- **CAS**: 0000057136
- **Inventory**: Max. Daily Amount (code)
- **No. of Days On-Site (days)**

### Storage Codes and Locations (Non-Confidential)
- **Storage Locations**
- **Location**: E 4 1 9206; 9219; 9993-AL
- **Location**: F 4 1 920-5; 9404-20; 9720-13; 9720-50
- **Location**: F 4 2 9404-8
- **Location**: J 4 1 9720-13; 9720-2; 9720-8; 9769
- **Location**: M 4 1 9202; 9204-3; 9995; UVSPF
- **Location**: N 4 1 9202; 9204-3; 9210; 9211; 9720-16; 9731; 9995; UVSPF

### Certification
- **Certification**: I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 40, 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**: [Signature]
- **Date signed**: [Date]

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