Y-12

OAK RIDGE Y-12 PLANT

LOCKHEED MARTIN

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

UCN-13672 (28 6-95)

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OSTI

Y/TS-1640

Annual Update of the
Solid Waste Management Unit (SWMU)
List for the Oak Ridge Y-12 Plant

J. M. Deakin

Solid Waste Department
Environmental Compliance Organization
Y-12 Plant

January 1997

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

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January 1997

Y/TS-1640

**Annual Update of the Solid Waste Management Unit
List for the Oak Ridge Y-12 Plant**

J. M. Deakin

**Solid Waste Department
Environmental Compliance Organization
Y-12 Plant**

**Prepared by the
Oak Ridge Y-12 Plant
Oak Ridge, Tennessee 37831
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Executive Summary

In accordance with the terms of Paragraph II.A.8 of the Resource Conservation and Recovery Act (RCRA), 1984 Hazardous and Solid Waste Amendments (HSWA) Permit TN 001, and the Tennessee Department of Environment and Conservation (TDEC), RCRA Permit TN1 890 090 003 for Building 7652 at the Oak Ridge National Laboratory, the list of the solid waste management units (SWMUs) for the Oak Ridge Reservation, including the Oak Ridge Y-12 Plant, must be updated and submitted to personnel at the Environmental Protection Agency, Region IV, and TDEC by January 30, 1997.

This report includes information, satisfying the §II.A.8 requirements, to update the SWMU list for the Y-12 Plant. Newly identified SWMUs include discernible units which have accumulated, treated, stored, or disposed of waste; areas contaminated by routine, deliberate, or systematic releases from process components; RCRA 90-day accumulation areas; and TSCA one-year areas.

324454

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation area
Building 9623; AA-163
YS-882
Jan-1997

324456

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation area
Building 9623; AA-163
YS-882
Jan-1997

Unit Name: Building 2002, Water Plant Maintenance (Johnson Controls area)

Unit Number: YS-883

Type of Unit: RCRA 90-day accumulation area

Unit Location: Building 2002, N.E. of the Y-12 Plant
Y-12 Site Map Grid Coordinates: NA

General Dimensions: 20 ft x 42 ft Capacity: 2,750 gallons

Function of Unit: Hazardous waste accumulation area

Dates Operated: From: 12/91 To: present

Description of waste: RCRA listed wastes for constituents found in solvent paint waste and kathene solutions.

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Waste in this area is under the supervision of Johnson Controls, a subcontractor to DOE, and is containerized in 5- and 10-gallon buckets and 55-gallon drums.

References: NA

Date Prepared: 4/29/96

Date Revised: New

324469

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation area
Building 2002; Johnson Controls
YS-883
Jan-1997

Unit Name: Building 2005, Heavy Equipment (Johnson Controls area)

Unit Number: YS-884

Type of Unit: RCRA 90-day accumulation area

Unit Location: Building 2005, West of the Y-12 Plant
Y-12 Site Map Grid Coordinates: F-3

General Dimensions: 20 ft x 42 ft Capacity: 2,750 gallons

Function of Unit: Hazardous waste accumulation area

Dates Operated: From: 12/91 To: present

Description of waste: RCRA listed wastes for constituents found in carburator cleaner and spill clean-up wastes.

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Waste in this area is under the supervision of Johnson Controls, a subcontractor to DOE, and is containerized in 5- and 10-gallon buckets and 55-gallon drums.

References: NA

Date Prepared: 4/29/96

Date Revised: - New - -

324470

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation area
Building 2005/Johnson Control
YS-884
Jan-1997

Unit Name: Building 9206, Room 20; TS-61

Unit Number: YS-885

Type of Unit: TSCA one-year area

Unit Location: 9206, Room 20, off east pad, between Col 3.9 and 3.2
Y-12 Site Map Grid Coordinates: D-3

General Dimensions: 7 ft x 11 ft Capacity: 220 gallons

Function of Unit: PCB waste storage

Dates Operated: From: 1/25/96 To: 7/96

Description of waste: PCB contaminated materials

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Waste in this area was the result of the clean up of a leaking transformer and was containerized in 55-gallon drums. Area closed when the clean-up work was completed.

References: NA

Date Prepared: 1/25/96

Date Revised: New

324464

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
TSCA/PCB one-year area
Building 9206; TS-61
YS-885
Jan-1997

Unit Name: Building 9206, east side, decon pad; AA165

Unit Number: YS-886

Type of Unit: RCRA 90-day accumulation area

Unit Location: East side of 9206 on the decon pad
Y-12 Site Map Grid Coordinates: D-3

General Dimensions: 42 ft x 26 ft Capacity: 1,500 gallons

Function of Unit: Mixed waste storage area

Dates Operated: From: 3/13/96 To: present

Description of waste: RCRA characteristic wastes with codes D002 and D0MX and listed wastes with codes F001 and F002 in wastes generated during closure of the Uranium Treatment Unit.

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Wastes in this area were containerized in 55-gallon stainless steel drums. These wastes were generated as a result of clean out and closing of the Uranium Treatment Facility, an Interim Status site that had long been a part of the building's mission.

References: NA

Date Prepared: 3/19/96

Date Revised: New

324458

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation area
Building 9206; AA-165
YS-886
Jan-1997

324461

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation area
Building 9206; AA-165
YS-886
Jan-1997

Unit Name: Liquid Storage Facility (LSF), east of dike; AA164

Unit Number: YS-887

Type of Unit: RCRA 90-day accumulation area

Unit Location: West of Y-12 at LSF at Gate 4, east side of dike # 9500-0109
Y-12 Site Map Grid Coordinates: NA

General Dimensions: 4 ft x 8 ft Capacity: 440 gallons

Function of Unit: Hazardous waste accumulation

Dates Operated: From: 3/15/96 To: 4/29/96

Description of waste: Oily sludges, contaminated sludges, contaminated PPE and filters that carry listed RCRA codes F001, F002, F004, F005, and F039

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Wastes in this area were contained in 55-gallon drums and were generated from maintenance work at the LSF facility. The area closed when a metal building was erected nearby. The new RCRA area (YS-891) allows the drums of waste protection from the weather.

References: NA

Date Prepared: 5/23/96 - -

Date Revised: New - -

324471

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation area
LSF, East of Dike; AA-164
YS-887
Jan-1997

Unit Name: Building 9404-5, Paint Shop; AA166

Unit Number: YS-888

Type of Unit: RCRA 90-day accumulation area

Unit Location: North side of 9404-5, outside
Y-12 Site Map Grid Coordinates: B-4

General Dimensions: 5 ft x 5 ft Capacity: 110 gallons

Function of Unit: Hazardous waste accumulation

Dates Operated: From: 4/10/96 To: 12/20/96

Description of waste: RCRA characteristic for oil paint, thinner, and paint chips with waste codes D001 and D008.

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Wastes in this area were contained in 5- and 10-gallon buckets and 55-gallon drums. Area closed when the mission that produced these wastes was completed.

References: NA

Date Prepared: 4/29/96

Date Revised: New

324473

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation area
Building 9404-5; AA-166
YS-888
Jan-1997

Unit Name: Building 9204-2E, MAA; TS-63

Unit Number: YS-889

Type of Unit: TSCA one-year storage area

Unit Location: 9204-2E, MAA, airlock, Col. J-5
Y-12 Site Map Grid Coordinates: D-3

General Dimensions: 5 ft x 4 ft Capacity: 110 gallons

Function of Unit: PCB waste storage

Dates Operated: From: 4/19/96 To: present

Description of waste: PCB-contaminated waste

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Wastes in this area were generated from light ballasts being replaced.

References: NA

Date Prepared: 4/29/96

Date Revised: New

324460

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
TSCA/PCB one-year area
Building 9204-2E, TS-63
YS-889
Jan-1997

Unit Name: Building 9204-2E, Dock 213; TS-64

Unit Number: YS-890

Type of Unit: TSCA one-year storage area

Unit Location: 9204-2E, off Dock 213
Y-12 Site Map Grid Coordinates: D-3

General Dimensions: 6 ft x 6 ft Capacity: 55 gallons

Function of Unit: PCB waste storage

Dates Operated: From: 4/19/96 To: present

Description of waste: PCB-contaminated PPE and ballasts

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Waste in this area is containerized in 10- gallon buckets and 30- gallon drums. Waste was generated during relamping of an entire area in this building.

References: NA

Date Prepared: 4/29/96

Date Revised: New

324468

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
TSCA 1-year storage area
Building 9204-2E; TS-64
YS-890
Jan-1997

Unit Name: Liquid Storage Facility (LSF); AA167, TS-65

Unit Number: YS-891

Type of Unit: RCRA 90-day accumulation area/TSCA one-year storage area

Unit Location: West of Y-12 at LSF, Gate 4, metal storage building
Y-12 Site Map Grid Coordinates: NA

General Dimensions: 20 ft x 5 ft Capacity: 1,760 gallons

Function of Unit: Hazardous waste accumulation/PCB waste storage

Dates Operated: From: 4/29/96 To: present

Description of waste: Oily, contaminated sludges, contaminated PPE and filters that carry listed RCRA codes F001, F002, F004, F005, and F039

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Wastes in this area are contained in 55-gallon drums and are generated from maintenance work at the LSF facility. The building allows the waste containers protection from the weather. This area was established to replace YS-887.

References: NA

Date Prepared: 5/23/96

Date Revised: New

324478

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation/TSCA 1-year area
LSF, Gate 4; AA-167 & TS-65
YS-891
Jan-1997

Unit Name: Building 9201-5, Southeast Side; AA168

Unit Number: YS-892

Type of Unit: RCRA 90-day accumulation area

Unit Location: 9201-5, southeast side, south of railroad tracks
Y-12 Site Map Grid Coordinates: E-3

General Dimensions: 15 ft x 11 ft Capacity: 2,000 gallons

Function of Unit: Hazardous waste storage area

Dates Operated: From: 5/1/96 To: 5/21/96

Description of waste: Sulfuric acid sludge with RCRA characteristic wastes codes D002 and D009.

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: This area was opened to accomodate clean out of an old sulfuric acid storage tank. Area closed when mission was completed.

References: NA

Date Prepared: 5/23/96

Date Revised: New

324474

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation area
Building 9201-5; AA-168
YS-892
Jan-1997

Unit Name: Building 9212, Dock 14; AA-23

Unit Number: YS-893

Type of Unit: RCRA 90-day accumulation area

Unit Location: East side of alley between 9212 and 9995
Y-12 Site Map Grid Coordinates: D-2

General Dimensions: 6 ft x 10 ft Capacity: 300 gallons

Function of Unit: Hazardous waste accumulation area

Dates Operated: From: 1988 To: 3/18/96

Description of waste: RCRA characteristic for benzene (D018) in waste oils from vacuum pump oil change outs and on rags and PPE.

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Waste was containerized in 55-gallon drums, 5- and 10- gallon buckets, and plastic bags. The generation source was processes in H-1 Foundry operations in 9998. **NOTE:** This area was never part of YS-303

References: NA

Date Prepared: 10/15/96

Date Revised: New

324476

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation area
Building 9212; AA-23
YS-893
Jan-1997

Unit Name: Building 9204-2, outside

Unit Number: YS-894

Type of Unit: Pre-RCRA accumulation area

Unit Location: Northwest corner of 9204-2, adjacent to the roll-up doors
Y-12 Site Map Grid Coordinates: D-3

General Dimensions: 20 ft x 50 ft Capacity: 3,960 gallons

Function of Unit: Hazardous waste storage area

Dates Operated: From: 1968 To: 1984

Description of waste: RCRA characteristic for TCLP metals and organic solvent wastes generated from lithium operations and listed for trichloroethylene, a cleaning agent used to clean floors.

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Waste was containerized in 55-gallon drums and was stored on a paved surface, along with product materials for the building.

References: NA

Date Prepared: 10/14/96

Date Revised: New

324463

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation area
Building 9204-2; NW Corner, AA-##
YS-894
Jan-1997

324462

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation area
Building 9204-2; AA-##
YS-894
Jan-1997

Unit Name: Building 9204-2, southeast corner (original AA-12)

Unit Number: YS-895

Type of Unit: RCRA 90-day accumulation area

Unit Location: Southeast corner of 9204-2, south of railroad tracks
Y-12 Site Map Grid Coordinates: D-3

General Dimensions: 15 ft x 15 ft Capacity: 400 gallons

Function of Unit: Hazardous waste accumulation area

Dates Operated: From: 9/88 To: 3/92

Description of waste: RCRA characteristic for TCLP metals and volatile organics and U-listed for waste generated from lithium production operations in 9204-2. Wastes include ethylene thiourea (U116), and tetramethylthiuram disulfide (U244). Diesel fuel, resins, glues/adhesives, varsol, aerosols, acid wastes, anisole, sodium hydroxide water, batteries, light bulbs, arsenic, kerosene, sludge with wastewater, lead-based paint chips, and ethylene glycol and water, involved codes D001-D004, and D006-D009.

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Waste was containerized in 55-gallon drums and 5- and 10- gallon buckets and plastic bags, and sat in a paved area. Due to problems with condensate leak into the area of the site being such that runoff flowed directly into the sanitary sewer drain, the area was relocated in 1992.

References: NA

Date Prepared: 10/15/96

Date Revised: New

324475

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRa 90-day accumulation area
Building 9204-2, SE corner, AA-12
YS-895
Jan-1997

324455

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRa 90-day accumulation area
Building 9204-2, SE corner; AA-12
YS-895
Jan-1997

Unit Name: Building 9769, Room 204/206; TS-66

Unit Number: YS-896

Type of Unit: TSCA one-year storage area

Unit Location: 9769, Room 204/206
Y-12 Site Map Grid Coordinates: B-2

General Dimensions: 4 ft x 4 ft Capacity: 35 gallons

Function of Unit: PCB one-year storage area/hazardous waste accumulation

Dates Operated: From: 9/9/96 To: present

Description of waste: Organic PCBs

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Waste is containerized in 5- and 10-gallon buckets and plastic bags, and is located under a counter in a lab area. This area manages both a PCB one-year storage area and a RCRA Satellite Area (SA-829) with wastes that are RCRA characteristic for ignitability and corrosivity (D001, D002) and listed for solvents (F001, F002, F005).

References: NA

Date Prepared: - 10/03/96 - -

Date Revised: New

324466

Unit Name: Building 9769, Room 205; TS-67

Unit Number: YS-897

Type of Unit: TSCA one-year storage area

Unit Location: Building 9769, Room 205
Y-12 Site Map Grid Coordinates: B-2

General Dimensions: 4 ft x 1 ft Capacity: 55 gallons

Function of Unit: PCB waste storage

Dates Operated: From: 9/9/96 To: present

Description of waste: PCB and RCRA contaminated waste from lab work

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: This area manages both a PCB one-year storage area and a RCRA Satellite Area (SA-815) for PCB contaminated wastes that are RCRA characteristic. Among the wastes contained in the area are hexane, ether, toluene, acetone, with wastes codes D001, D002, F002, F003, F005 and commercial chemical products that carry waste codes U002, U080, U117, U154, and U220.

References: NA

Date Prepared: 10/03/96

Date Revised: New

EXIT

WS-0
CLASSIFIED

WS-0
CLASSIFIED

PCB

CAUTION
TSCA/PCB ONE-YEAR AREA
DO NOT ENTER
NO SMOKING
NO OPEN FLAMES
NO HOT SURFACES
NO HOT WORK

WS-3
COMMON SENSE

WS-2
COMMON SENSE

324465

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
TSCA/PCB one-year area
Building 9769; TS-67
YS-897
Jan-1997

Unit Name: Building 9769, Room 311; TS-69

Unit Number: YS-898

Type of Unit: TSCA one-year storage area

Unit Location: Building 9769, Room 311, under counter
Y-12 Site Map Grid Coordinates: B-2

General Dimensions: 2 ft x 3 ft Capacity: 30 gallons

Function of Unit: PCB one-year storage area/hazardous waste accumulation

Dates Operated: From: 9/24/96 To: present

Description of waste: PCB and RCRA contaminated waste from lab samples

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Waste in this area is containerized in lab bottles and 10-gallon buckets. This area manages both a PCB one-year storage area and a RCRA Satellite Area (SA-831) for PCB contaminated wastes that are RCRA characteristic for ignitables and corrosives (D001, D002), listed for solvents (F003) and small amounts of commercial chemical products, acrolein (P003) and acrylonitrile (U009).

References: NA

Date Prepared: 10/03/96

Date Revised: New

324472

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
TSCA/PCB one-year area
Building 9769; TS-69
YS-898
Jan-1997

Unit Name: Building 9204-4; AA170

Unit Number: YS-899

Type of Unit: RCRA 90-day accumulation area

Unit Location: Building 9204-4. 1st floor, Col. N-25
Y-12 Site Map Grid Coordinates: E-3s

General Dimensions: 9 ft x 7.5 ft Capacity: 110 gallons

Function of Unit: Hazardous waste accumulation

Dates Operated: From: 10/28/96 To: present

Description of waste: RCRA wastes that carry a characteristic code (D001) for ignitable waste and a listed code (F003) for various solvents.

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Waste in this area is containerized in 5- and 10- gallon buckets.
The area was opened to handle off-spec and unused chemicals in a facility where the work mission has changed.

References: NA

Date Prepared: 11/12/96

Date Revised: New

324459

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation area
Building 9204-4; AA-170
YS-899
Jan-1997

324457

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
RCRA 90-day accumulation area
Building 9204-4; AA-170
YS-899
Jan-1997

Unit Name: Building 9201-5, Arc Melt; TS-72

Unit Number: YS-900

Type of Unit: TSCA one-year storage area

Unit Location: Building 9201-5, Arc Melt, 2nd floor, Col. J-8
Y-12 Site Map Grid Coordinates: E-3

General Dimensions: 8 ft x 8 ft Capacity: 220 gallons

Function of Unit: PCB waste storage

Dates Operated: From: 11/12/96 To: present

Description of waste: Light ballasts and wipes contaminated with PCBs.

Has a release occurred: No

Release Data: No documentation of a release on record

Further Investigation: No

Comments: Waste in this area is containerized in 55-gallon drums and was generated when leaking light ballasts were replaced and the leaks were cleaned up.

References: NA

Date Prepared: 11/12/96

Date Revised: New

324477

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
TSCA 1-year storage area
Building 9201-S; TS-72
YS-900
Jan-1997

324467

U.S. DOE Y-12 Plant
Oak Ridge, Tennessee
TSCA/PCB one-year area
Building 9201-5; TS-72
YS-900
Jan-1997

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OAK RIDGE Y-12 PLANT INFORMATION CONTROL FORM

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Author's / Requestor's Name Jean Deakin Telephone No., Pager No. and Plant Address 6-6044/873-7857/9116, MS-8098 Account Number 2366-1130

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☐ Thesis/Term Paper ☐ Videotape ☐ Other
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DOCUMENT REQUEST APPROVED (Division/Department Mgr.)

Classification of: Title: UNCLASSIFIED Abstract: UNCLASSIFIED

J. E. Powell/Division Mgr.

DOCUMENT: Level UNCLASSIFIED Category N/A

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Signature Date

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Y-12 Central Files

TIO

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P. L. McKenney 1/27/97
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