Y-12

OAK RIDGE Y-12 PLANT

LOCKHEED MARTIN

ANALYTICAL SERVICES ORGANIZATION
UNION VALLEY SAMPLE PREPARATION FACILITY
POLYCHLORINATED BIPHENYL (PCB)
ANNUAL INVENTORY DOCUMENT
EPA IDENTIFICATION NUMBER TNR0000027253

Period covering: January 1, 1997,
to January 1, 1998

Bridget J. Brown
Environmental Compliance Department
Environmental, Safety and Health Organization

June 1998

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

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LOCKHEED MARTIN ENERGY SYSTEMS, INC.

Post Office Box 2009
Oak Ridge, Tennessee 37831

June 29, 1998

Mr. R. J. Spence
Y-12 Site Manager
Department of Energy, Oak Ridge Operations
Post Office Box 2001
Oak Ridge, Tennessee 37831

Dear Mr. Spence:

Contract DE-AC05-84OR21400, Polychlorinated Biphenyl (PCB) Annual Inventory Document from January 1, 1997, to January 1, 1998, at the Analytical Services Organization, Union Valley Sample Preparation Facility (UVSPF)

Enclosed is the *Analytical Services Organization Union Valley Sample Preparation Facility Polychlorinated Biphenyl (PCB) Annual Inventory Document (Y/TS-1729)*. The UVSPF Environmental Protection Agency PCB identification number is TNR0000027253. The purpose of this report is to fulfill the record keeping requirements set forth in Title 40, Code of Federal Regulations, Part 761.180(a), as specified for facilities using and storing PCBs. This document provides the UVSPF information for the period January 1, 1997, to January 1, 1998, concerning the type and amount of PCB waste generated, disposed of, and held in storage.

If you have any questions or comments concerning the document, please contact B. J. Brown at 574-3874.

Very truly yours,

A handwritten signature in dark ink, appearing to read "T. R. Butz", with a horizontal line extending to the right.

T. R. Butz
Y-12 Plant Manager

TRB:lr

Enclosure: As Stated

Mr. R. J. Spence, DOE-ORO

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June 29, 1998

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Enclosure

Letter, Butz to Spence

Dated: June 29, 1998

**Contract DE-AC05-84OR21400, Polychlorinated Biphenyl (PCB) Annual Inventory
Document from January 1, 1997, to January 1, 1998, at the Analytical Services
Organization, Union Valley Sample Preparation Facility (UVSPF)**

ANALYTICAL SERVICES ORGANIZATION
UNION VALLEY SAMPLE PREPARATION FACILITY
POLYCHLORINATED BIPHENYL (PCB)
ANNUAL INVENTORY DOCUMENT
EPA IDENTIFICATION NUMBER TNR0000027253

Period covering: January 1, 1997, to January 1, 1998

Date of Issue: June 1998

Bridget J. Brown
Environmental Compliance Department
Environmental, Safety and Health Organization

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EXECUTIVE SUMMARY

The Analytical Services Organization (ASO), Union Valley Sample Preparation Facility (UVSPF), provides analytical testing in support of the Department of Energy (DOE), Oak Ridge Operations (ORO), and associated sites. Samples generated on the Oak Ridge Reservation (ORR) are routinely received at the UVSPF for analytical evaluation/identification. Many of these samples are polychlorinated biphenyl (PCB) regulated from a source or being sent to the facility to determine PCB content. PCB laboratory wastes in solid and liquid form are generated during the evaluation of these materials, requiring the UVSPF staff to maintain formal storage areas for staging the materials prior to off-site shipment for disposal. The purpose of this report is to fulfill the requirements set forth in Title 40, Code of Federal Regulations (CFR), Part 761.180(a), Subpart J, which requires owners or operators of a facility using or storing PCBs to prepare an annual inventory document by July 1 of the current year which covers the previous calendar year.

This report provides documentation of the inventory of PCB materials/wastes that were generated, stored for disposal, and shipped off site for disposal for the period January 1, 1997, to January 1, 1998. The following is a summary of materials/wastes subject to the aforementioned reporting requirements.

PCB Wastes

Mass

Drummed PCB Solid Waste Generated	190 kg
Drummed PCB Solids Consolidated	0 kg
Drummed PCB Solids Generated from Consolidation Activities	0 kg
Drummed PCB Solid Waste Shipped for Disposal	0 kg
Drummed PCB Solid Waste Disposed	0 kg
Drummed PCB Solid Waste Inventory Dated January 1, 1998	190 kg
Drummed PCB Liquid Waste Generated	371 kg
Drummed PCB Liquids Consolidated	0 kg
Drummed PCB Liquids Generated from Consolidation Activities	0 kg
Drummed PCB Liquid Waste Shipped for Disposal	0 kg
Drummed PCB Liquid Waste Disposed	0 kg
Drummed PCB Liquid Waste Inventory Dated January 1, 1998	371 kg

A. INTRODUCTION

A.1 PURPOSE AND SCOPE

Polychlorinated biphenyls (PCBs) are considered a toxic substance that presents an unreasonable risk of injury to human health and the environment. As such, when the United States Congress passed the Toxic Substances Control Act (TSCA) in 1977, the Act included provisions which directed the Environmental Protection Agency (EPA) staff to phase out the manufacture, processing, distribution in commerce, and use of PCBs. In response to this mandate, the EPA staff has promulgated regulations in 40 CFR, Part 761, restricting the manufacture, processing, distribution, use, storage, and disposal of PCBs.

These regulations specifically address the use of PCBs at concentrations of 50 parts per million (ppm) or greater in research and development (R&D) activities. Analytical chemistry methods are included in the EPA interpretation of what constitutes an R&D activity, rendering all analytical laboratories subject to PCB regulation. In addition, the regulations are specific with respect to record keeping requirements, approved storage facilities, acceptable disposal methods, and activities involving the handling of materials/wastes containing PCBs.

The ASO UVSPF provides analytical testing in support of the DOE ORO. Samples generated on the ORR are routinely received at the UVSPF for analytical evaluation. Many of these samples are PCB regulated from a source or being sent to the facility to determine PCB content. PCB laboratory wastes in solid and liquid form are generated during the evaluation of these materials, requiring the UVSPF staff to maintain formal storage areas for staging the materials prior to off-site shipment for disposal. Since the ASO UVSPF is not located on the ORR, the Oak Ridge Reservation Polychlorinated Biphenyl Federal Facilities Compliance Agreement does not apply; therefore, the ASO is responsible for maintaining strict adherence to the regulations outlined in 40 CFR 761.

The purpose of this report is to fulfill the record keeping requirements set forth in 40 CFR, Part 761.180(a). This provision requires that an owner or operator of a facility using or storing PCBs develop and maintain records on the disposition of PCBs and PCB items, and prepare an annual inventory document by July 1 of the current year which covers the previous calendar year. The information included in this report reflects the ASO UVSPF PCB inventory activities beginning January 1, 1997, through January 1, 1998.

A.2 STORAGE LOCATIONS FOR OF PCB WASTE (>50 PPM) AT Y-12		
LOCATION	DESCRIPTION	RESPONSIBLE ORGANIZATION
Room 13C (TS-60)	Laboratory Waste Storage	Analytical Services
Room 3 (TS-84)	Laboratory Waste Storage	Analytical Services
Room 3 (TS-85)	Laboratory Waste Storage	Analytical Services
Room 5 (TS-86)	Laboratory Waste Storage	Analytical Services
Room 8 (TS-87)	Laboratory Waste Storage	Analytical Services

Note: Personnel from the responsible organization provide Environmental Compliance staff with all the information about their specific area(s) necessary for compiling the PCB Annual Document.

B. PCB WASTE ACTIVITY INVENTORY FOR JANUARY 1, 1997, TO JANUARY 1, 1998**B.1 PCB WASTE ACTIVITY GRAND SUMMARY****B.1.1 DRUMMED PCB LIQUID WASTES**

DRUMMED PCB WASTES (LIQUID)		
	TOTAL QUANTITY	TOTAL KILOGRAMS
BEGINNING PCB WASTE INVENTORY JANUARY 1, 1997	0	0
GENERATED FROM JANUARY 1, 1997, TO JANUARY 1, 1998	4	371
DRUMS TRANSFERRED OR CONSOLIDATED	0	0
DRUMS GENERATED FROM CONSOLIDATION ACTIVITIES	0	0
DRUMS SHIPPED FOR DISPOSAL FROM JANUARY 1, 1997, TO JANUARY 1, 1998	0	0
ENDING PCB WASTE INVENTORY JANUARY 1, 1998	4	371

B.1.2 DRUMMED PCB SOLID WASTES

DRUMMED PCB WASTES (SOLID)		
	TOTAL QUANTITY	TOTAL KILOGRAMS
BEGINNING PCB WASTE INVENTORY JANUARY 1, 1997	0	0
GENERATED FROM JANUARY 1, 1997, TO JANUARY 1, 1998	4	190
DRUMS CONSOLIDATED	0	0
DRUMS GENERATED FROM CONSOLIDATION ACTIVITIES	0	0
SHIPPED FOR DISPOSAL FROM JANUARY 1, 1997, TO JANUARY 1, 1998	0	0
ENDING PCB WASTE INVENTORY JANUARY 1, 1997	4	190

B. PCB WASTE ACTIVITY INVENTORY FOR JANUARY 1, 1997, TO JANUARY 1, 1998
 B.2 BEGINNING PCB WASTE INVENTORY JANUARY 1, 1997
 B.2.1 DRUMMED PCB LIQUID WASTES

ID NUMBER	RFD NUMBER	MATERIAL DESCRIPTION	DATE STORED	CONTAINER	RCRA CONT.	WASTE CATEGORY	PCB LEVEL	MASS (KG)
-----------	---------------	----------------------	----------------	-----------	---------------	-------------------	-----------	-----------

Generation of PCB waste was initiated at this facility in 1997.

B. PCB WASTE ACTIVITY INVENTORY FOR JANUARY 1, 1997, TO JANUARY 1, 1998
 B.2 BEGINNING PCB WASTE INVENTORY JANUARY 1, 1997
 B.2.2 DRUMMED PCB SOLID WASTES

ID NUMBER	RFD NUMBER	MATERIAL DESCRIPTION	DATE STORED	CONTAINER	RCRA CONT.	WASTE CATEGORY	PCB LEVEL	MASS (KG)
-----------	---------------	----------------------	----------------	-----------	---------------	-------------------	-----------	-----------

Generation of PCB waste was initiated at this facility in 1997.

B. PCB WASTE ACTIVITY INVENTORY FOR JANUARY 1, 1997, TO JANUARY 1, 1998

B.3 PCB WASTE CONSOLIDATED OR TRANSFERRED FROM JANUARY 1, 1997, TO JANUARY 1, 1998

B.3.1 DRUMMED PCB LIQUIDS CONSOLIDATED

ID NUMBER	RFD NUMBER	MATERIAL DESCRIPTION	DATE STORED	CONTAINER	RCRA CONT.	WASTE CATEGORY	PCB LEVEL	MASS (KG)	FINAL ID NUMBER
-----------	---------------	----------------------	----------------	-----------	---------------	-------------------	-----------	--------------	--------------------

There were no PCB liquids consolidated at UVSPF during 1997.

B. PCB WASTE ACTIVITY INVENTORY FOR JANUARY 1, 1997, TO JANUARY 1, 1998
 B.3 PCB WASTE CONSOLIDATED OR TRANSFERRED FROM JANUARY 1, 1997, TO JANUARY 1, 1998
 B.3.2 DRUMMED PCB SOLIDS CONSOLIDATED

ID NUMBER	REF NUMBER	MATERIAL DESCRIPTION	DATE STORED	CONTAINER	RCRA CONT.	WASTE CATEGORY	PCB LEVEL	MASS (KG)	FINAL ID NUMBER
-----------	---------------	----------------------	----------------	-----------	---------------	-------------------	-----------	--------------	--------------------

There were no PCB solids consolidated at UVSPF during 1997.

B. PCB WASTE ACTIVITY INVENTORY FOR JANUARY 1, 1997, TO JANUARY 1, 1998

B.4 PCB WASTE GENERATED FROM JANUARY 1, 1997, TO JANUARY 1, 1998

B.4.1 DRUMMED PCB LIQUID WASTES

ID NUMBER	RFD NUMBER	MATERIAL DESCRIPTION	DATE STORED	CONTAINER	RCRA CONT.	WASTE CATEGORY	PCB LEVEL	MASS (KG)
Y12C9750293	Y00560	URANIUM & PCB CONTAMINATED ACIDS	10/1/97	DRUM	Y	LIQUID	>500 PPM	109.00
Y12C9750294	Y00559	URANIUM & PCB CONTAMINATED ACIDS	11/5/97	DRUM	Y	LIQUID	>500 PPM	109.00
Y12C9750295	Y00559	URANIUM & PCB CONTAMINATED ACIDS	11/5/97	DRUM	Y	LIQUID	>500 PPM	109.00
Y12C9750296	Y00561	URANIUM & PCB CONTAMINATED ORGANICS	11/5/97	DRUM	Y	LIQUID	>500 PPM	44.00

4 Total Containers = 371.00 kg

B. PCB WASTE ACTIVITY INVENTORY FOR JANUARY 1, 1997, TO JANUARY 1, 1998

B.4 PCB WASTE GENERATED FROM JANUARY 1, 1997, TO JANUARY 1, 1998

B.4.2 DRUMMED PCB SOLID WASTES

ID NUMBER	RFD NUMBER	MATERIAL DESCRIPTION	DATE STORED	CONTAINER	RCRA CONT.	WASTE CATEGORY	PCB LEVEL	MASS (KG)
Y12C9750297	Y00562	PCB CONTAMINATED COMBUSTIBLES	9/26/97	DRUM	N	SOLID	>500 PPM	68.00
Y12C9750298	Y00563	PCB CONTAMINATED COMBUSTIBLES	11/24/97	DRUM	N	SOLID	>500 PPM	34.00
Y12C9750299	Y00564	PCB CONTAMINATED GLASS	11/5/97	DRUM	N	SOLID	>500 PPM	68.00
Y12C9789449	Y00566	PCB CONTAMINATED SOLIDS, SODIUM SULFATE & ALUMINUM	11/11/97	DRUM	N	SOLID	>500 PPM	20.00

4 Total Containers = 190.00 kg

B. PCB WASTE ACTIVITY INVENTORY FOR JANUARY 1, 1997, TO JANUARY 1, 1998

B.5 DRUMS GENERATED FROM CONSOLIDATION ACTIVITIES

B.5.1 CONSOLIDATED LIQUIDS

ID NUMBER	RFD NUMBER	MATERIAL DESCRIPTION	DATE STORED	CONTAINER	RCRA CONT.	WASTE CATEGORY	PCB LEVEL	MASS (KG)
-----------	---------------	----------------------	----------------	-----------	---------------	-------------------	-----------	-----------

There were no drummed PCB liquids generated from consolidation activities during 1997.

B. PCB WASTE ACTIVITY INVENTORY FOR JANUARY 1, 1997, TO JANUARY 1, 1998

B.5 DRUMS GENERATED FROM CONSOLIDATION ACTIVITIES

B.5.2 CONSOLIDATED SOLIDS

ID NUMBER	RFD NUMBER	MATERIAL DESCRIPTION	DATE STORED	CONTAINER	RCRA CONT.	WASTE CATEGORY	PCB LEVEL	MASS (KG)
-----------	---------------	----------------------	----------------	-----------	---------------	-------------------	-----------	-----------

There were no drummed PCB solids generated from consolidation activities during 1997.

MANIFEST NUMBER	DATE SHIPPED	DISPOSER	DATE MANIFEST RECEIVED BY DISPOSER	DATE CERTIFICATE OF DISPOSAL ISSUED	DISPOSAL DATE	WASTE CATEGORY
There were no drummed PCB wastes shipped from UVSPF in 1997.						

B. PCB WASTE ACTIVITY INVENTORY FOR JANUARY 1, 1997, TO JANUARY 1, 1998
B.6 PCB WASTE SHIPPED FOR DISPOSAL FOR JANUARY 1, 1997, TO JANUARY 1, 1998
B.6.2 DRUMMED PCB LIQUID WASTES

ID NUMBER	RFD NUMBER	MATERIAL DESCRIPTION	DATE STORED	CONTAINER	RCRA CONT.	WASTE CATEGORY	PCB LEVEL	MASS (KG)	DATE SHIPPED	MANIFEST NUMBER	DESTINATION FACILITY
-----------	---------------	----------------------	----------------	-----------	---------------	-------------------	--------------	--------------	-----------------	--------------------	-------------------------

There were no drummed liquid wastes shipped from UVSPF during 1997.

B. PCB WASTE ACTIVITY INVENTORY FOR JANUARY 1, 1997, TO JANUARY 1, 1998
 B.6 PCB WASTE SHIPPED FOR DISPOSAL FROM JANUARY 1, 1997, TO JANUARY 1, 1998
 B.6.3 DRUMMED PCB SOLID WASTES

ID NUMBER	RFD NUMBER	MATERIAL DESCRIPTION	DATE STORED	CONTAINER	RCRA CONT.	WASTE CATEGORY	PCB LEVEL	MASS (KG)	DATE SHIPPED	MANIFEST NUMBER	DESTINATION FACILITY
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There were no drummed solid wastes shipped from UVSPF during 1997.

B.7 ENDING PCB WASTE INVENTORY JANUARY 1, 1998

B.7.1 DRUMMED PCB LIQUID WASTES

ID NUMBER	RFD NUMBER	MATERIAL DESCRIPTION	DATE STORED	CONTAINER	RCRA CONT.	WASTE CATEGORY	PCB LEVEL	MASS (KG)
Y12C9750293	Y00560	URANIUM & PCB CONTAMINATED ACIDS	10/1/97	DRUM	Y	LIQUID	>500 PPM	109.00
Y12C9750294	Y00559	URANIUM & PCB CONTAMINATED ACIDS	11/5/97	DRUM	Y	LIQUID	>500 PPM	109.00
Y12C9750295	Y00559	URANIUM & PCB CONTAMINATED ACIDS	11/5/97	DRUM	Y	LIQUID	>500 PPM	109.00
Y12C9750296	Y00561	URANIUM & PCB CONTAMINATED ORGANICS	11/5/97	DRUM	Y	LIQUID	>500 PPM	44.00

4 Total Containers = 371.00 kg

ID NUMBER	RFD NUMBER	MATERIAL DESCRIPTION	DATE STORED	CONTAINER	RCRA CONT.	WASTE CATEGORY	PCB LEVEL	MASS (KG)
Y12C9750297	Y00562	PCB CONTAMINATED COMBUSTIBLES	9/26/97	DRUM	N	SOLID	>500 PPM	68.00
Y12C9750298	Y00563	PCB CONTAMINATED COMBUSTIBLES	11/24/97	DRUM	N	SOLID	>500 PPM	34.00
Y12C9750299	Y00564	PCB CONTAMINATED GLASS	11/5/97	DRUM	N	SOLID	>500 PPM	68.00
Y12C9789449	Y00566	PCB CONTAMINATED SOLIDS, SODIUM SULFATE & ALUMINUM	11/11/97	DRUM	N	SOLID	>500 PPM	20.00

4 Total Containers = 190.00 kg

APPENDIX A

VERIFICATION LOG FOR SHIPMENTS BY INDEPENDENT TRANSPORTERS

There were no PCB shipments to commercial disposers by independent transporters from the Y-12 Plant during 1997; therefore, no PCB Telephone Log was prepared.

APPENDIX B

INVENTORY ADJUSTMENTS

Prior to 1997, UVSPF did not generate PCB wastes; therefore, no corrections/adjustments were needed on the 1997 inventory.

APPENDIX C

ANNUAL RECORDS

There were no PCB waste shipments from UVSPF in 1997; therefore, manifests and certificates of disposal were not generated.

Distribution:

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