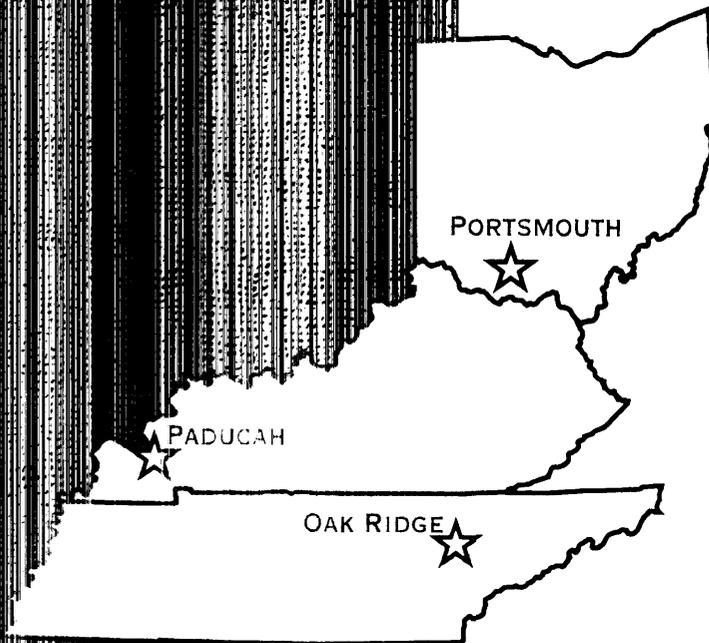




BJC/PAD-429

ENVIRONMENTAL MANAGEMENT  
& ENRICHMENT FACILITIES  
MANAGEMENT AND INTEGRATION CONTRACT

**Final Inventory/Characterization  
Report for the C-409-01  
Department of Energy  
Material Storage Area at the  
Paducah Gaseous Diffusion Plant,  
Paducah, Kentucky**



MANAGED BY  
BECHTEL JACOBS COMPANY LLC  
FOR THE UNITED STATES  
DEPARTMENT OF ENERGY

This document has received the appropriate reviews  
for release to the public.

**Final Inventory/Characterization Report for the C-409-01  
Department of Energy Material Storage Area (DMSA)  
at the Paducah Gaseous Diffusion Plant,  
Paducah, Kentucky**

Date Issued – September 16,2002

Prepared by  
WESKEM, LLC  
Under subcontract 23900-BA-RM005F  
Prepared for the  
US Department of Energy  
Office of Environmental Management

BECHTEL JACOBS **COMPANY** LLC  
managing the  
Environmental Management Activities at the  
East Tennessee Technology Park  
Oak Ridge Y-12 Plant                      Oak Ridge National Laboratory  
Paducah Gaseous Diffusion Plant                      Portsmouth Gaseous Diffusion Plant  
Under contract DE-AC05-98OR22700  
for the  
U.S. DEPARTMENT OF ENERGY

This report is an abridged edition. The following sections have been omitted from this report, but are included in the full report.

C-409-01 DMSA ZONE MAP

HP SURVEY DATA

HP SMEAR **AND** AIR SAMPLE ACTIVITY REPORT

SME INSPECTION / SAMPLING SUMMARY

OREIS CHARACTERIZATION REPORT

RFD FORMS

REUSABLE MATERIAL E-FORMS

D & D FORMS

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INVENTORY AND CHARACTERIZATION REPORT

WASTE IDENTIFIED FOR REMOVAL

DMSA C-409-01 INVENTORY

REUSABLE MATERIAL INVENTORY

D & D INVENTORY

## ACRONYMS

ACM	Asbestos Containing Material
ADC	Authorized Derivative Classifier
BEF	Equipment Field Blank
D&D	Decontamination and Decommission
DMSA	Department of Energy Material Storage Area
DOE	Department of Energy
dpm	Disintegrations per Minute
EPA	Environmental Protection Agency
ft <sup>2</sup>	Square Feet
ft <sup>3</sup>	Cubic Feet
HP	Health Physics
IH	Industrial Hygiene
lbs	Pounds
Lc	Level Sub C
LLW	Low Level Waste
MDA	Minimum Detectable Activity
MS	Matrix Spike
NCS	Nuclear Criticality Safety
OREIS	<i>Oak Ridge Environmental Information Systems</i>
PCB	Polychlorinated Biphenyl
PEL	Permissible Exposure Limits
PGDP	Paducah Gaseous Diffusion Plant
RCRA	Resource Conservation and Recovery Act
RFD	Request for Disposal
RPD	Relative Percent Difference
SME	Subject Matter Expert
SVOA	Semi-volatile Organic Analysis
SWMU	Solid Waste Management Unit
TCLP	Toxicity Characteristic Leaching Procedure
TIO	Technical Information Officer
TLV	Threshold <b>Limit</b> Value
TSCA	Toxic Substances Control Act
USEC	United States Enrichment Corporation
VOA	Volatile Organic Analysis

## EXECUTIVE SUMMARY

Department of Energy Material Storage Area (DMSA) C-409-01 is located at the west end of the C-409 Building. It occupies approximately 1,080 square feet (ft<sup>2</sup>). It is also designated as Solid Waste Management Unit (SWMU) #354. This facility was known as the "Slope Test Stand/Facility". It was used during the 1970s to pressure test process converters that had been removed from the cascade and uprated to perform more efficiently. Upon completion of the uprating program, the facility was placed in standby. Since that time, the original equipment has remained in place along with spare parts for the facility. There is also an accumulation of miscellaneous equipment, such as spool pieces, a large glovebox, treadmills, and various types of debris stored in the DMSA. This DMSA was originally identified as a Phase 2 DMSA (may or may not be fully characterized and may contain fissionable material). It now qualifies as a Phase 3 **DMSA** since it is fully characterized and no fissionable material/items are present in the DMSA. The characterization was conducted between the November 2001 and April 2002 time frame.

### RCRA/Mixed

Sixteen circuit boards, nine diodes, twelve fuses, and twenty capacitors were identified as Resource Conservation Recovery Act (RCRA)/ Mixed waste in **DMSA C-409-01**. The items were labeled, handled appropriately and transported to the C-752-A RCRA permitted storage facility.

### TSCA/PCB

There were no Toxic Substances Control Act (TSCA)/Polychlorinated Biphenyl (PCB) items of concerns identified during the characterization program.

### ACM/LLW

Asbestos containing material (ACM)/low level waste (LLW) was abated from a serpentine heater and transferred to the C-752-A storage facility.

### LLW

All of the stet equipment and material in this DMSA was classified as LLW. Other classifications such as RCRA and ACM are also applicable to specific items as previously noted. The LLW material remained in the **DMSA**.

### D&D

The Slope Test Stand/Facility will be handled in the future under the Decontamination and Decommission (D&D) Program. The slope test stands remain in-place in the DMSA.

### Reusable

Numerous items in the DMSA were identified as having the potential for reuse. These items consist of **six** control valves, a 1600 and a 2000 amp **box**, two Chromolox heaters, a liquid level switch and a gas pressure regular. In addition eight boxes of polybottles were identified as reusable material. These items will remain in the DMSA until reuse.

### NCS

There were no Nuclear Criticality Safety (NCS) concerns identified during characterization activities in this **DMSA**. All equipment/items were classified as NCS exempt.

### IH

All Industrial Hygiene (**M**) data has been reviewed. All quality control samples were within normal acceptable guidelines, except one PCB sample that was not useable due to exceeding the holding time. No personnel were exposed to any airborne concentrations above a permissible exposure limit (PEL) or threshold limit value (TLV).

### HP

The Health Physics (HP) radiological surveys concluded the highest alpha reading was 7,006 disintegrations per minute (dpm)/100cm<sup>2</sup> on valve actuators. The highest beta/gamma reading was 152,942 dpm/100cm<sup>2</sup> on a spool piece.

### Safety

There were no safety related events during the field activities. All workers had stop work authority to ensure unusual or unexpected events were evaluated before work was allowed to proceed. A safety officer was in attendance during all phases of work to evaluate conditions and provide safety related input to the workers.

All the actions that were involved in this characterization activity were documented and have been retained in permanent files. Part of the documentation also included photographs of each equipment item. Several of these photographs are included in this report.

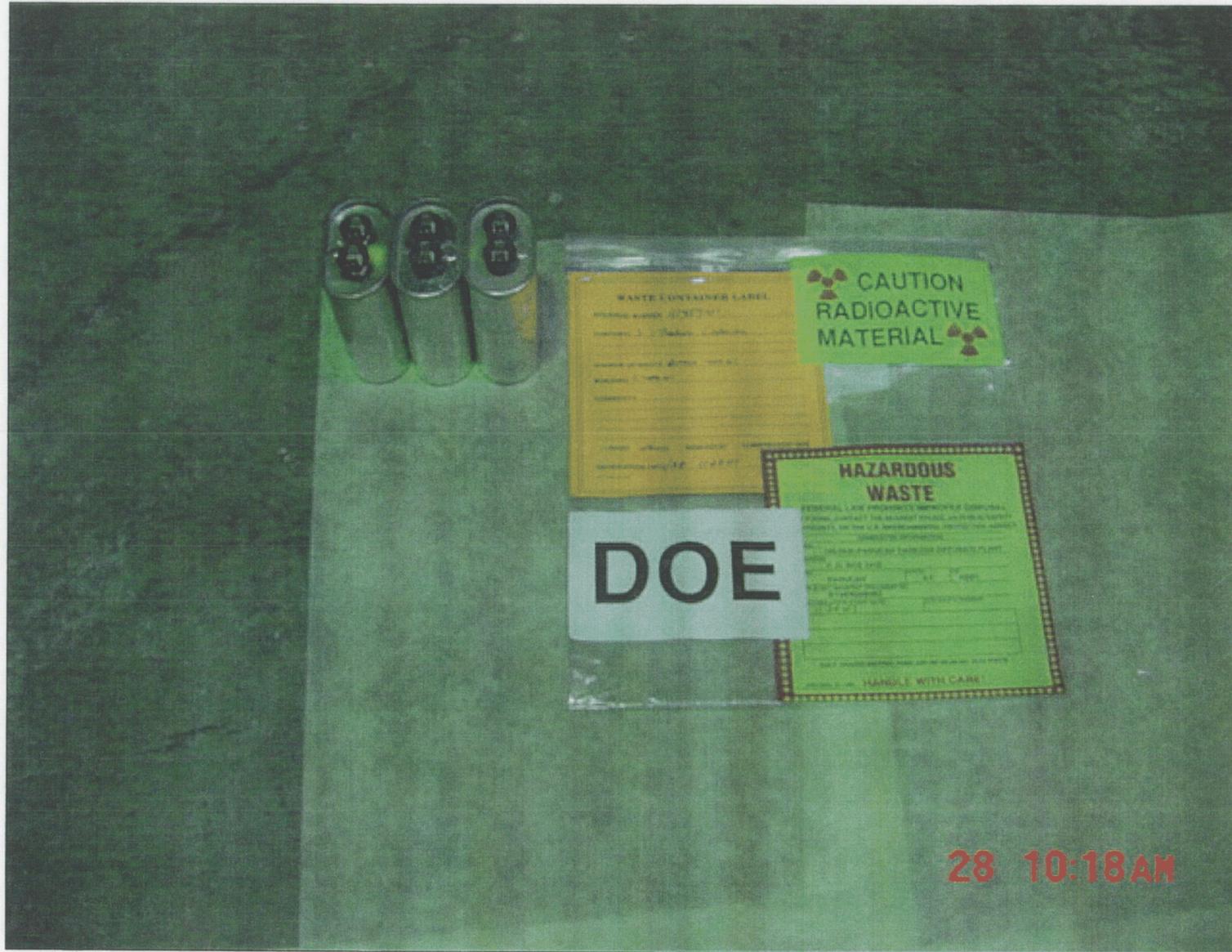
DMSA C-409-01 Circuit Boards Removed from Equipment as Hazardous Waste



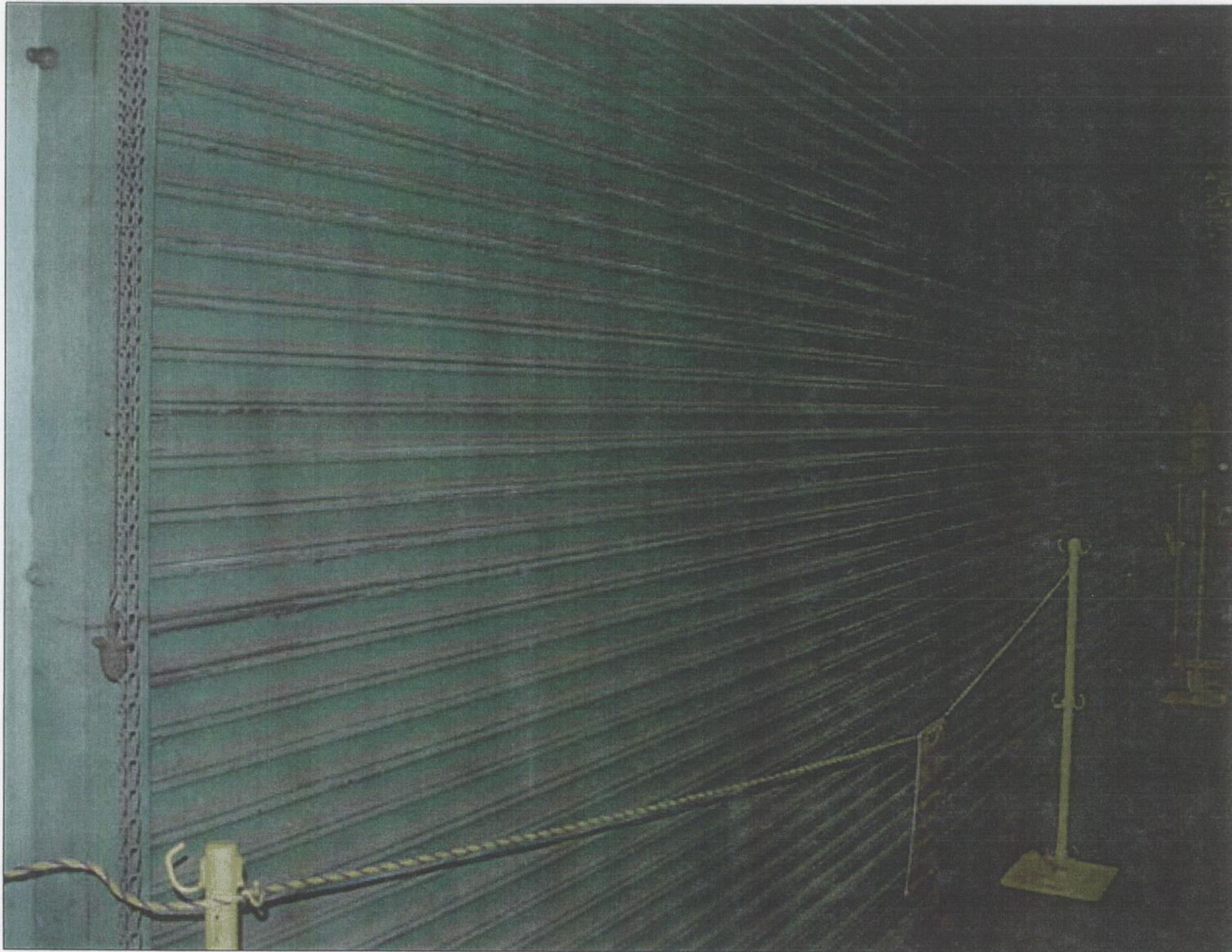
13

# DMSA C-409-01 Capacitors Removed from Equipment as Hazardous

71



DMSA C-409-01 Rollup Door **Opens** to **Reveal** DMSA Area



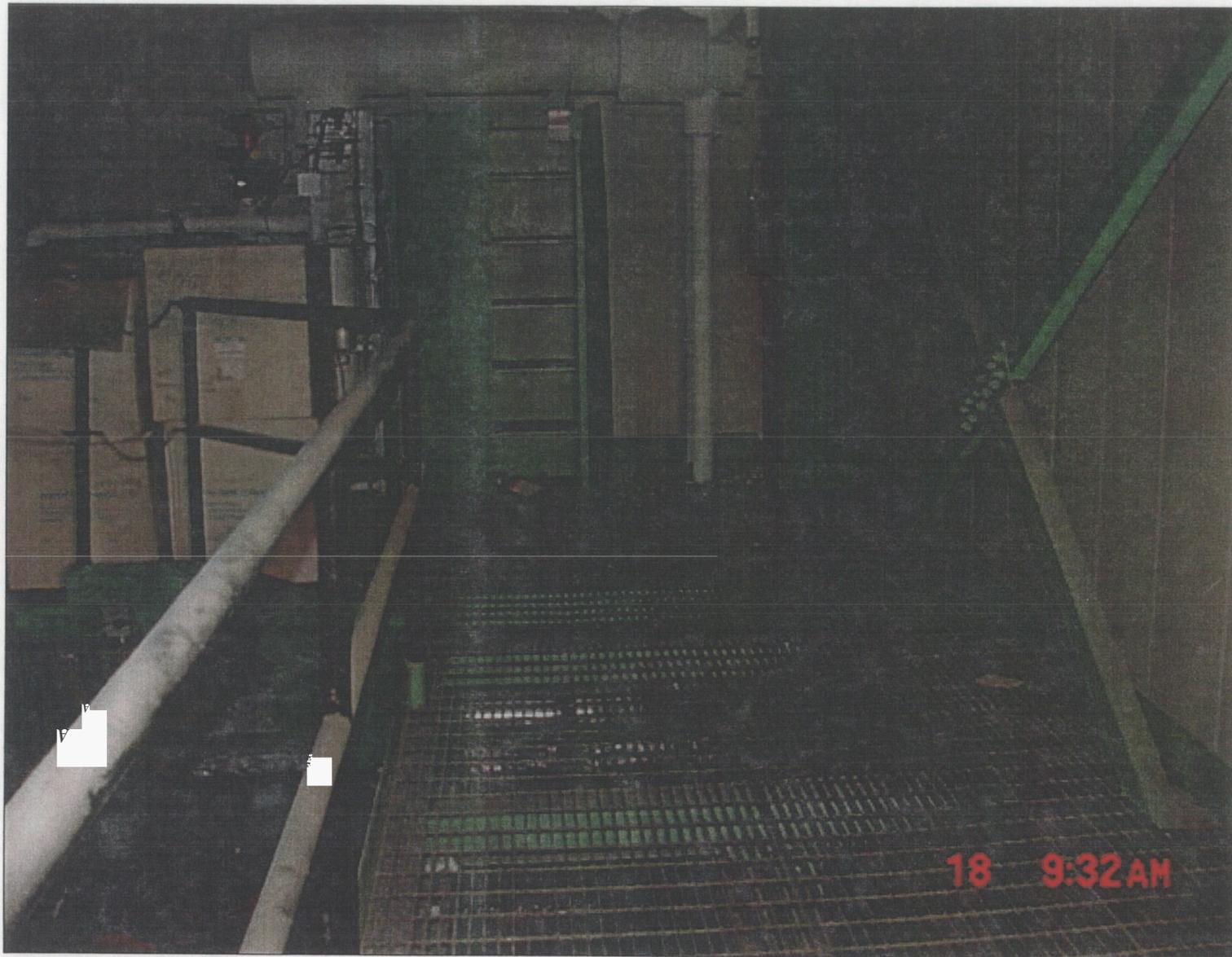
15

# DMSA C-409-01 Side Entrance to Slope Test Facility



16

DMSA C-409-01 View from Upper Level of Stand



17

5

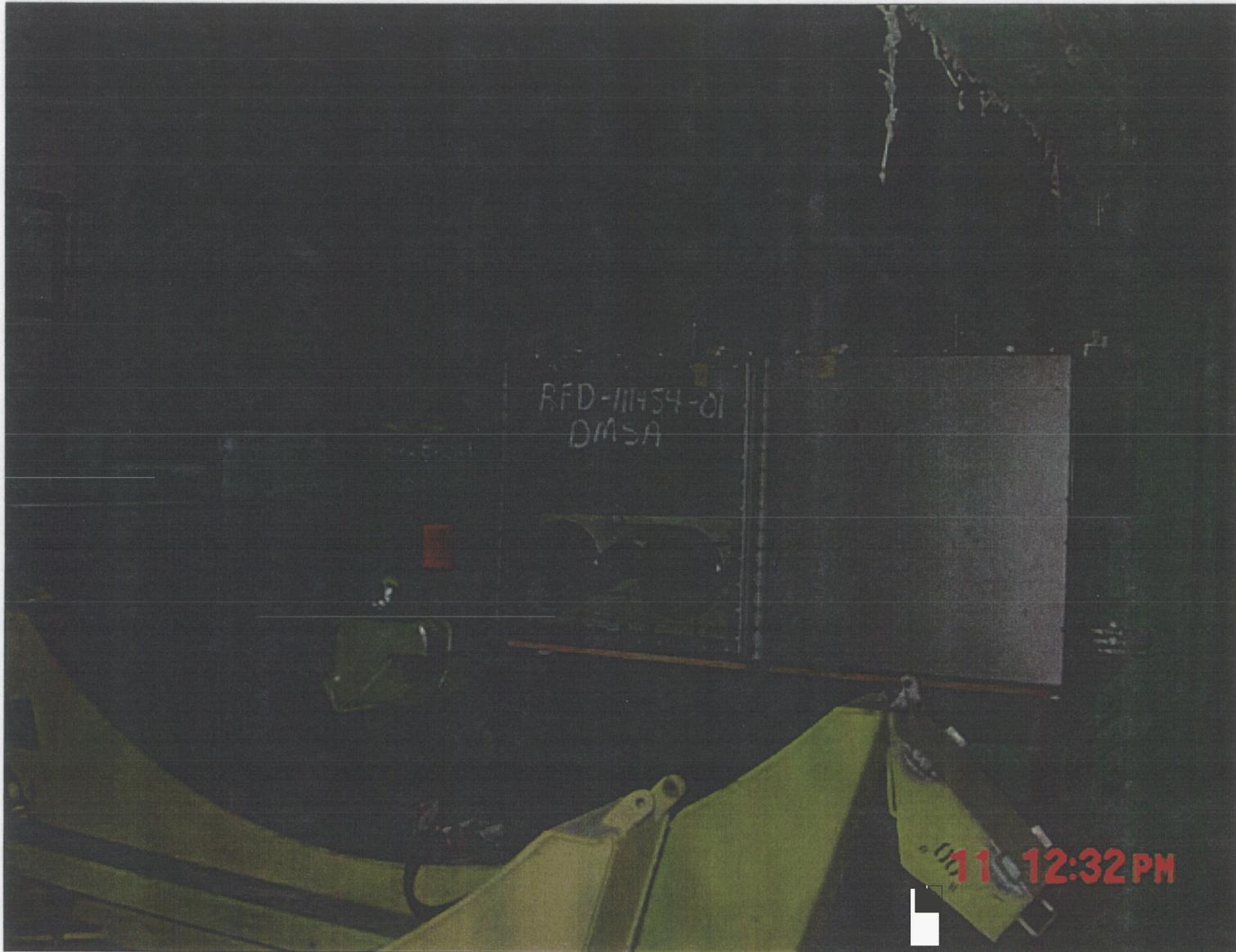
DMSA C-409-01 Equipment Inside the DMSA



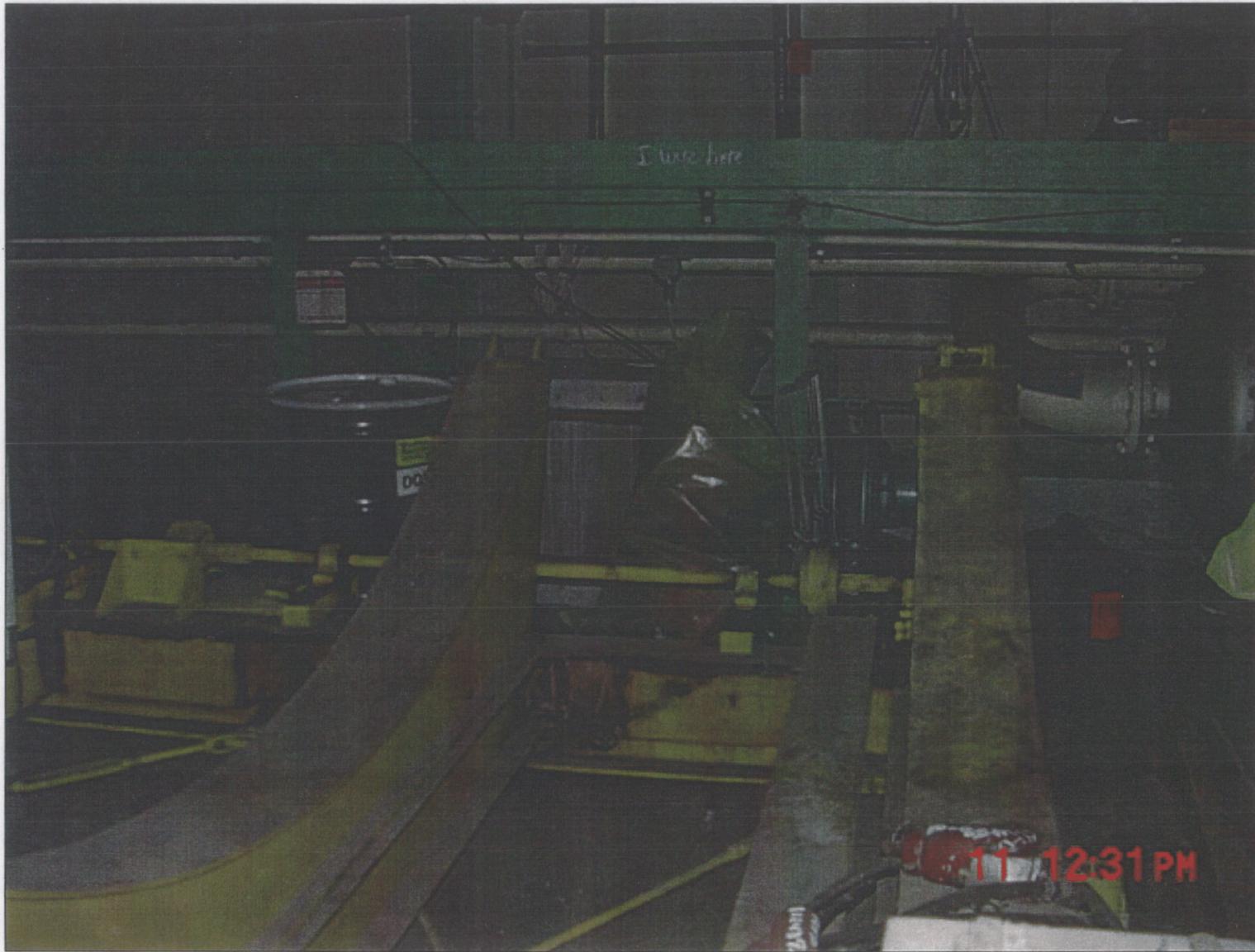
18

DMSA C-409-01 Glove Box and Miscellaneous Equipment

61



DMSA C-409-01 View of Equipment in Area



20

## DMSA C-409-01 Out-of-Service Exercise Equipment



21

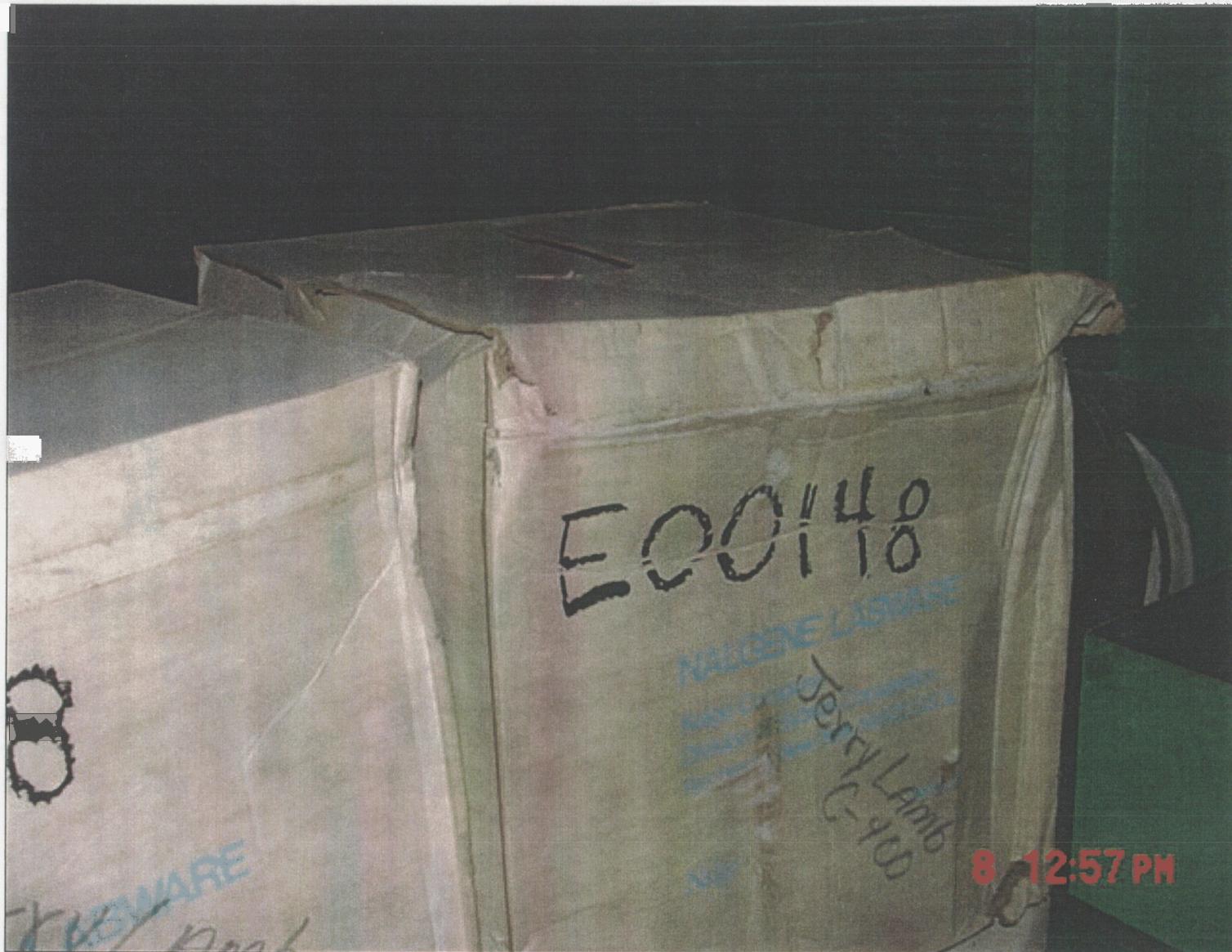
DMSA C-409-01 Scrap Metal Waste Generation Container



22

DMSA C-409-01 Unused Equipment Identified as Reusable

23



8:12:57 PM

# Inventory And Characterization Report

Curr. Zone	Item ID	Barcode #	Description	Vol. ft3	tsca non	tsca mix	rcra non	rcra mix	llw	asb	fis	Ind	Gen. Date	Char. Date	Transferred to
<b>C-409-01</b>															
	111426-01	DMSA0111501	10" x 21" SPOOL PIECE	1.06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/8/01	11/8/01	
	111427-01	DMSA0111502	4" x10" GAS CYLINDER W/VALVE AND COPPER TUBING	0.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/8/01	11/8/01					
	111428-01	DMSA0215184	WASTE GENERATION CONTAINER FOR METAL	7.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/8/01	11/8/01	
	111429-01	DMSA0111504	WASTE CONTAINER PLASTIC, PAPER, RUBBER	7.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/9/01	11/9/01	
	111430-01	DMSA0111505	10" x 4' SPOOL PIECE	2.3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/9/01	11/9/01	
	111431-01	DMSA0111506	10" x4' SPOOL PIECE	2.3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/9/01	11/9/01	
	111432-01	DMSA0111507	10" x 82" SPOOL PIECE	3.7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/12/01	11/12/01	
	111433-01	DMSA0111508	10" x 82" SPOOL PIECE	3.7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/12/01	11/12/01	
	111434-01	DMSA0111510	10" x 82" SPOOL PIECE	3.7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/12/01	11/12/01					
	111435-01	DMSA0111511	10" S SHAPE SPOOL PIECE 110"	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/12/01	11/12/01					
	111436-01	DMSA0111512	10" x 51" S SHAPED SPOOL PIECE	2.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/12/01	11/12/01	
	111437-01	DMSA0111513	2 TREADMILLS	106	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/12/01	11/12/01	
	111438-01	DMSA0111514	SECTION OF HANDRAIL AND RAISERS	8.8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/12/01	11/12/01	
	111439-01	DMSA0111515	CONSTOTENT HEATER COIL	0.8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/12/01	11/12/01	
	111440-01	DMSA0111524	STEAM TRAP 8" x 14"	0.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/12/01	11/12/01	

Wednesday, August 28, 2002

Page 1 of 3

**Legend**

asb	Asbestos	Char	Characterization Date	fis	Fissionable
Gen	Generation Date	llw	Low Level Waste	Ind	Landfill
mix	Mixed Waste	rcra	Resource Conservation Recovery Act	tsca	Toxic Substances Control Act

<i>Curr. Zone</i>	<i>Item ID</i>	<i>Barcode #</i>	<i>Description</i>	<i>Vol. ft3</i>	<i>tsc non</i>	<i>tsc mix</i>	<i>rcr non</i>	<i>rcr mix</i>	<i>llw</i>	<i>asb</i>	<i>fis</i>	<i>lnd</i>	<i>Gen. Date</i>	<i>Char. Date</i>	<i>Transferred To</i>
	111441-01	DMSA0111525	10" PIPE STAND 65" LONG	3.8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/13/01	11/13/01	
	111442-01	DMSA0111526	AUORA PUMP	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/13/01	11/13/01	
	111443-01	DMSA0111527	AUORA PUMP	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/13/01	11/13/01	
	111444-01	DMSA0111528	(10) 2'x2'x2" AIR FILTERS	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/13/01	11/13/01	
	111445-01	DMSA0111529	2 HANGERS	0.3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/13/01	11/13/01	
	111447-01	DMSA0111531	METAL CART	21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/14/01	11/14/01	
	111448-01	DMSA0111532	STAINLESS STEEL ROD 1/2" x 43"	0.01	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/14/01	11/14/01	
	111449-01	DMSA0215182	WASTE GENERATION CONTAINER	7.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/19/01	11/19/01	
	111450-01	DMSA0111534	METAL TRASH CAN	4.04	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/19/01	11/19/01	
	111451-01	DMSA0111536	2 WOODEN PALLETS	12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/19/01	11/19/01	
	111452-01	DMSA0111537	CRANE CABLE	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/19/01	11/19/01	
	111453-01	DMSA0111538	3/4" IMPACT WRENCH W/ HOSE	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	La	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/19/01	11/19/01	
	111454-01	DMSA0111539	GLOVE BOX W/ SIX GLOVES INSIDE,	192	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/19/01	11/19/01	
	111455-01		CIRCUIT BOARDS	0.037	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/21/01	11/21/01	C-752-A
	111457-01		3 MEDIUM CAPACTORS	0.013	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/28/01	11/28/01	C-752-A
	111458-01	DMSA0111543	SERPINTINE HEATER (ASBESTOS)	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/28/01	11/28/01	
	111460-01	DMSA0111545	4 VALVE ACTUATORS	0.7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/28/01	11/28/01	

<i>Curr. Zone</i>	<i>Item ID</i>	<i>Barcode #</i>	<i>Description</i>	<i>Vol. ft3</i>	<i>tsc non</i>	<i>tsc mix</i>	<i>rcra non</i>	<i>rcra mix</i>	<i>lw</i>	<i>asb</i>	<i>fis</i>	<i>lnd</i>	<i>Gen. Date</i>	<i>Char. Date</i>	<i>Transferred To</i>
	111461-01	DMSA0111546	BOX OF SWITCHES, RELAYS AND TRANSFORMERS.	0.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/29/01	11/29/01	
	111462-01	DMSA0111549	COPPER TUBING AND SIGHT GLASS TUBING	6.7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/29/01	11/29/01	
	111463-01	DMSA0111550	3 1/4 BAGS SAFETY ABSORBENT.	1.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/29/01	11/29/01	
	111464-01	DMSA0111553	PIPING	4.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/29/01	11/29/01	
	111476-01	DMSA0111554	2 WOODEN PALLETS	8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/30/01	11/30/01	
	111477-01	DMSA0216901	GENERATION CONTAINER SCRAPMETAL	0.74	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/30/01	11/30/01	
	111478-01	DMSA0111555	6" FLEXHOSE, 4' LONG	0.8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/30/01	11/30/01	
	111479-01	DMSA0111556	6" FLEX HOSE, 4' LONG	0.8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/30/01	11/30/01	
	111826-01	DMSA0111938	3 GALLON BUCKET W/ 1/3 ABSORBENT	0.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/3/02	1/3/02	
	111827-01	DMSA0111939	ROLL OF RUBBER MATTING	1.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/2/02	1/2/02	
96	ZONE 111456-01		17 SMALL HAZ CAPACITORS	0.013	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	@	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/28/01	11/28/01	C-752-A
<i>Summary for C-409-OI (43 RFDs)</i>				<i>439.513 Ft3</i>											
<i>Grand Total (43 RFDs)</i>				<i>439,513 Total Ft3</i>											

**WASTE REMOVED FROM C-409-01 DMSA**

Circuit Boards, Fuses, and Diodes	111455	RCRA/Mix	C-752-A	PAD01C03503	1	0.037	3	No
Small Capacitors	111456	RCRA/Mix	C-752-A	PAD01C03503	1	0.013	1	No
Medium Capacitors...	111457	RCRA/Mix	C-752-A	PAD01C03503	1	0.013	1	No

*Total Estimated*  
*Volume (ft3)*  
**1.06**

*Total Estimated*  
*Weight (lbs)*  
**10**

27

### C-409-01 DMSA INVENTORY

Description	Original RFD #	Material Classification	Column #	Barcode	# Items	Estimated Volume (ft <sup>3</sup> )	Estimated Weight (lbs)	Material Transferred to USEC
10" x 21" Spool Piece	111426	LLW	409-01	DMSAOI11501	1	1.06	80	No
4" x 10" Gas Cylinder w/Valve and Copper Tubing	111427	LLW	409-01	DMSAOI11502	1	0.1	5	No
DMSA Waste Generation Container for Metal	111428	LLW	409-01	DMSAOI11503	1	7.4	450	No
Waste Container for DMSA (Plastic, Paper, Rubber)	111429	LLW	409-01	DMSAOI11504	1	7.4	200	No
10" x 14" Spool Piece	111430	LLW	409-01	DMSAOI11505	1	2.3	110	No
10" x 14" Spool Piece	111431	LLW	409-01	DMSAOI11506	1	2.3	110	No
10" x 82" Spool Piece	111432	LLW	409-01	DMSAOI11507	1	3.7	180	No
10" x 82" Spool Piece	111433	LLW	409-01	DMSAOI11508	1	3.7	180	No
10" x 82" Spool Piece	111434	LLW	409-01	DMSAOI11510	1	3.7	180	No
10" S-Shaped Spool Piece	111435	LLW	409-01	DMSAOI11511	1	2	210	No
10" x 51" S-Shaped Spool Piece	111436	LLW	409-01	DMSAOI11512	1	2.4	115	No
(2) Treadmills (82" x 56" x 40")	111437	LLW	409-01	DMSAOI11513	1	106	350	No
(1) Section of Handrail with (3) Raisers (42" x 180")	111438	LLW	409-01	DMSAOI11514	1	8.8	120	No

**Subtotal Est.  
Volume (ft<sup>3</sup>)  
150.86**

**Subtotal Est.  
Weight (lbs)  
2,290**

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Description	Original RFD #	Material Classification	Column #	Barcode	# items	Estimated Volume (ft <sup>3</sup> )	Estimated Weight (lbs)	Material Transferred to USEC
Constotent Heater Coi	111439	LLW	409-01	DMSA0111515	1	0.8	20	No
Steam Trap 8" x 14"	111440	LLW	409-01	DMSAOI11524	1	0.5	25	No
10" Pipe Stand (65"long)	111441	LLW	409-01	<del>DMSAOI11525</del>	1	3.8	35	No
(1) Auora Pumo	111442	LLW	409-01	DMSAOI11526	1	5	80	No
(1) Auora Pump	111443	LLW	409-01	DMSAOI11527	1	5	80	No
(10) 2' x 2' x 2" Air Filters	111444	LLW	409-01	DMSAOI1528	1	8	40	No
(2) Hangers (2" x 3/8" x 20")	111445	LLW	409-01	DMSAOI 11529	1	0.3	15	No
Metal Cart (6' x 3' x 14")	111447	LLW	409-01	DMSAOI11531	1	21	200	No
Stainless Steel Rod (1/2" x 43")	111448	LLW	409-01	DMSAOI 11532	1	0.01	6	No
DMSA Waste Generation Container for Paper, Plastic, Rubber	111449	LLW	409-01	DMSA0215182	1	7.4	200	No.
Metal Trash Can, Emptv	111450	LLW	409-01	DMSAOI11534	1	4.04	30	No
(2) Wooden Pallets (3' x 4' x 6")	111451	LLW	409-01	DMSAOI11536	1	12	100	No
Crane Pendant Cable								

Subtotal Est.  
Volume (ft<sup>3</sup>)  
68.85

Subtotal Est.  
Weight (lbs)  
881

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Description	Original RFD #	Material Classification	Column #	Barcode	# Items	Estimated Volume (ft <sup>3</sup> )	Estimated Weight (lbs)	Material Transferred to USEC
3/4" Impact Wrench with Hose	111453	LLW	409-01	DMSA0111538	1		25	No
Glove Box with 6 Gloves Inside Box	111454	LLW	409-01	DMSAOI 11539	1	192	600	No
Circuit Boards, Fuses, and Diodes	111455	RCRA/Mix	C-752-A	PAD01C03503	1	0.037	3	No
Small Capacitors	111456	RCRA/Mix	C-752-A	PAD01C03503	1	0.013	1	No
Medium Capacitors	111457	RCRA/Mix	C-752-A	PAD01C03503	1	0.013	1	No
Serpentine Heater	111458	ACM/LLW	C-752-A	PAD02C05216	1		5	No
(4) Valve Actuators	111460	LLW	409-02	DMSAOI 11545	1	0.7	100	No
Box of Miscellaneous Switches, Relays, Transformers	111461	LLW	409-01	DMSAOI 11546	1	0.5	8	No
30' Copper Tubing and 40" Sight Glass Tube on 4' x 4' x 5" Wooden Pallet	111462	LLW	409-01	DMSAOI 11549	1	6.7	60	No
3 1/4" Bags Safety Absorbent, 50 lb. Bag	111463	LLW	409-01	DMSAOI 11550	1	1.5		
2" Pipe Support for 10" Pipe, Nitrogen Valve Body, and Aluminum Chock.	111464	LLW	409-01	DMSAOI 11553	1	4.1	75	No
(2) Wooden Pallets (4' x 4' x 3')	111476	LLW	409-01	DMSA0111554	1	8	100	No

Subtotal Est.  
Volume (ft<sup>3</sup>)  
215.56

Subtotal Est.  
Weight (lbs)  
1,058

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<b>Description</b>	<b>Original RFD #</b>	<b>Material Classification</b>	<b>Column #</b>	<b>Barcode</b>	<b># Items</b>	<b>Estimated Volume (ft<sup>3</sup>)</b>	<b>Estimated Weight (lbs)</b>	<b>Material Transferred to USEC</b>
Waste Generation Container (5 gallon Drum for Metal)	111477	LLW	409-01	DMSA0216901	1	0.74	75	No
6" Flex Hose, 4' long	111478	LLW	409-01	DMSAOI11555	1	0.8	10	No
6" Flex Hose, 4' long	111479	LLW	409-01	DMSAOI11556	1	0.8	10	No
Three Gallon Bucket with 1/3 Full of Absorbent, Sampled for PCB	111826	LLW	409-01	DMSAOI11938	1	0.5	15	No
(1) Roll of Rubber Matting, 3' x 15' x 3/4"	111827	LLW	409-01	DMSAOI 11939	1	1.4	60	No

*Subtotal Est. Volume (ft<sup>3</sup>)*  
**4.24**

*Subtotal Est. Weight (lbs)*  
**770**

**Grand Totals      439.57      4,399.00**

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**C-409-01 REUSABLE MATERIAL INVENTORY**

<b>Description</b>	<b>Original E#</b>	<b>Material Classification</b>	<b>Column #</b>	<b>Barcode</b>	<b># Items</b>	<b>Estimated Volume (ft<sup>3</sup>)</b>	<b>Estimated Weight (lbs)</b>	<b>Material Transferred to USEC</b>
(32) Poly Bottles	E00148	Reusable	N/A	DMSAOI11509	1	80	320	No
3/4" Fisher Control Valve with Positioner	E00149	Reusable	N/A	DMSA0111516	1	1	40	No
2" Fisher Control Valve with Positioner	E00150	Reusable	N/A	DMSA0111517	1	1.8	60	No
1.5" High Pressure Fisher Control Valve with Positioner	E00151	Reusable	N/A	DMSA0111518	1	6	50	No
1" Fisher Control Valve with Positioner	E00152	Reusable	N/A	DMSAOI11519	1	1.3	45	No
1" Fisher Control Valve with Positioner	E00153	Reusable	N/A	DMSAOI11520	1	3	45	No
1.5" Fisher Control Valve with Positioner	E00154	Reusable	N/A	DMSA0111521	1	6	50	No
Liquid Level Switch	E00155	Reusable	N/A	DMSAOI11522	1	0.5	15	No
Gas Pressure Regulator	E00156	Reusable	N/A	DMSAOI11523	1	0.2	3	No
100' of 1" Hose	E00157	Reusable	N/A	DMSAOI11535	1	6	75	No
(4) 1600 Amp Circuit Boards	E00158	Reusable	N/A	DMSAOI11547	1	0.8	40	No
2000 Amp Circuit Boards	E00159	Reusable	N/A	DMSAOI11548	1	0.2	10	No
50KW Chromolox Heater	E00160	Reusable	N/A	DMSAOI11551	1	5	120	No
100KW Chromolox Heater	E00161	Reusable	N/A	DMSAOI11552	1	7	150	No

**Total Estimated Volume(ft<sup>3</sup>)**  
**104**

**Total Estimated Weight (lbs)**  
**1,023**

3  
2

**C-409-01 D&D INVENTORY**

Description	Original DD#	Material Classification	Column #	Barcode	# Items	Estimated Volume (ft <sup>3</sup> )	Estimated Weight (lbs)	Material Transferred to USEC
Slope Factor Test								

*Total Estimated*  
*Volume (ft<sup>3</sup>)*  
**1,871.60**

*Total Estimated*  
*Weight (lbs)*  
**12,500**

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