

DMSA C-409-02
Solid Waste Management Unit (SWMU) Assessment Report

SWMU/AOC NUMBER: 355

DATE OF ORIGINAL SAR: 12/01/00

DATE OF SAR REVISIONS: 08/30/02, 12/21/07, 03/01/10

REGULATORY STATUS: SWMU

LOCATION: Near the center of the C-409 Building between columns A.3 3-8/C3-8.

APPROXIMATE DIMENSION OR CAPACITY: 2,720 ft²

FUNCTION: Temporary storage of materials.

BRIEF HISTORY: This area contains five stabilization stands (ovens) that were used during the 1970s Process Equipment Modification Program to treat process equipment. It also was used to store miscellaneous materials/equipment. On December 31, 1996, the area was released by the United States Enrichment Corporation to the U.S. Department of Energy (DOE) as a DOE Material Storage Area (DMSA).

From October 2001 through August 2002, DOE characterized the materials in this DMSA in accordance with the DMSA Characterization/Remediation Plan, which was incorporated as Appendix E of the 2003 Agreed Order. The five stabilization stands (ovens) were characterized and remain in place in the DMSA. The *Final Inventory and Characterization Report* (FI/CR) was submitted September 16, 2002, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on April 15, 2004.

Resource Conservation and Recovery Act (RCRA) closure activities were performed as set forth in the *Closure Plan, Post-Closure, and Financial Requirements for SWMU 355 (DMSA C-409-02), Paducah, Kentucky*, BJC/PAD-434/R1, submitted on December 30, 2004, and approved on April 21, 2006. The Final Closure Certification was submitted to KDWM in October 2006 and approved on February 13, 2007. This area was used for the storage of characterized LLW from this DMSA until September 10, 2009. The five stabilization stands (ovens) and associated fixed equipment will be removed with the decontamination and decommissioning (D&D) of this building.

PRESENT OPERATIONAL STATUS: Inactive

DATES OPERATED: 1976 to 2009

SITE/PROCESS DESCRIPTION: An inside DOE storage area located near the center of C-409 Building.

WASTE DESCRIPTION: The waste has been removed from this SWMU. Newly discovered RCRA regulated hazardous/mixed waste formerly stored included aerosol cans and light bulbs. Newly generated RCRA regulated hazardous/mixed waste formerly stored included circuit

boards, fuses, relays, capacitors, waste oil, power supply box, and mercury temperature switches. The low-level waste (LLW) formerly stored consisted of miscellaneous equipment and debris such as carts, buckets, valves, pumps, converter shells, and pallets. The Toxic Substances and Control Act (TSCA) regulated waste formerly stored consisted of polychlorinated biphenyl capacitors and bags from asbestos abatement activities. The capacitors and asbestos containing material also were classified as LLW due to radiological contamination. A detailed description of the characterized waste can be found in the FI/CR.

WASTE QUANTITY: Currently 0 ft³; waste quantity removed 9,904 ft³

SUMMARY OF ENVIRONMENTAL SAMPLING DATA: No sampling of environmental media has occurred.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED: None Known.

GROUNDWATER:	None Known
SURFACE WATER:	None Known
SOIL:	None Known
ECOLOGY AFFECTED: (i.e., threatened/endangered species):	None Known

DOCUMENTATION OF NO RELEASE: The *Closure Plan, Post-Closure Plan, and Financial Requirements for SWMU 355 (DMSA C-409-02), Paducah, Kentucky, BJC/PAD-434/R1*, submitted to KDWM on December 30, 2003, approved on April 21, 2006, and the Final Closure Certification submitted to KDWM in October 2006, approved on February 13, 2007, document that no signs of spills or releases were found. There have been no known spills or releases of materials from this facility to the environment.

IMPACT ON OR BY OTHER SWMU/AOC: There is no evidence that this SWMU impacts or is being impacted by other SWMUs.

PRG COMPARISON: N/A

RFI NECESSARY: No. This SWMU is inside an operational process building with a concrete floor. All wastes, except for the D&D items, have been removed from this DMSA. The unit is being proposed for no further action since it no longer is active, has no evidence of a release to the environment, and is not believed to pose a risk to human health or the environment. The fixed equipment remains in place in the DMSA to be addressed as part of the decontamination and decommissioning of the gaseous diffusion plant.

OPERABLE UNIT ASSIGNMENT: N/A



View 1



View 2

**SWMU 355
DMSA C-409-02
Showing Equipment for D&D
2009**



View 3



View 4

**SWMU 355
DMSA C-409-02
Showing Equipment for D&D
2009**

