

DMSA C-335-08
Solid Waste Management Unit (SWMU) Assessment Report

SWMU/AOC NUMBER: 304

DATE OF ORIGINAL SAR: 12/01/00

DATE OF SAR REVISIONS: 12/21/07, 06/14/10

REGULATORY STATUS: SWMU

LOCATION: Near the north wall of the C-335 Process Building between columns T32-33/BB32-33 (small sections of the DMSA extend beyond these columns, with one adjoining section between columns Y33-34/Z33-34).

APPROXIMATE DIMENSION OR CAPACITY: 5,390 ft²

FUNCTION: Temporary storage of materials.

BRIEF HISTORY: This area was used as a designated storage area for out-of-service process equipment. On December 31, 1996, this 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 January 2006 to October 2008, DOE characterized materials in this DMSA in accordance with the DMSA Characterization/Remediation Plan, which was incorporated as Appendix E of the 2003 Agreed Order. The *Final Inventory and Characterization Report (FI/CR)* was submitted on December 8, 2008, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on March 2, 2009.

Resource Conservation and Recovery Act (RCRA) closure activities were performed as set forth in the *Agreed Order Closure Plan for the DOE Material Storage Areas at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, BJC/PAD-720/R3*, submitted on December 22, 2005, and approved on April 14, 2006. The *Notification of Intent to Proceed with Closure* was submitted to KDWM on February 6, 2009, and approved on March 3, 2009. The Final Closure Certification was submitted to KDWM on May 4, 2009, and approved on May 14, 2009.

PRESENT OPERATIONAL STATUS: Inactive

DATES OPERATED: 1994 to 2009

SITE/PROCESS DESCRIPTION: An inside DOE storage area located near the north wall of the C-335 Process Building.

WASTE DESCRIPTION: This SWMU currently is empty. Newly discovered RCRA hazardous/mixed waste formerly stored included light bulbs, welding rods, small capacitors, batteries, fuses, lead pallets/pieces, and a light starter. Newly generated RCRA hazardous/mixed waste formerly stored consisted of light starters, small capacitors, wire connectors with solder, fuses, ceramic insulators with lead collars, vacuum tubes, light bulbs, circuit boards, relays, a mercury switch, and waste oils. The small capacitors also were categorized as Toxic Substances and Control Act (TSCA) polychlorinated biphenyl (PCB)

waste. The TSCA PCB waste formerly stored included presumed asbestos-containing material (PACM) (e.g., wire), light ballasts, and small capacitors. These waste items are also classified as low-level waste (LLW) due to radiological contamination. The TSCA PCB bulk product waste (e.g., preformed or molded rubber items, items with dried applied paints, or plastic insulation from wire or cable) formerly stored included cable/wire, process motors, motors, sprinkler pipe, miscellaneous scrap metal (e.g., plates, supports, and panels), metal lug connectors, ropes, pump parts, hoses, and pieces of galvanized duct work. The TSCA asbestos-containing material (ACM)/PACM formerly stored consisted of two metal boxes of PACM and PACM contaminated items, wire, a control air vent, and break pads. The TSCA PCB bulk product waste and ACM/PACM also were classified as LLW due to radiological contamination. The LLW formerly stored included 103 drums of uranium tetrafluoride (UF₄), two drums of floor sweep/UF₄/dry active waste, carts, electrical transformer and distribution cabinets, process motors, scales, a tilt dumpster, chairs and chair parts, storage cabinets and tool boxes, wooden pallets, and metal boxes that contained miscellaneous metal items. Three rolls of electrical cable formerly stored were categorized as recyclable material. Reusable material formerly stored included metal pallets used to stage the 85-gal over-packs of UF₄. A detailed description of the characterized waste formerly stored in this SWMU can be found in the FI/CR.

WASTE QUANTITY: Currently 0 ft³; waste quantity removed 13,887 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 *Notification of Intent to Proceed with Closure* submitted on February 6, 2009, approved on March 3, 2009, and the *Final Closure Certification* submitted on May 4, 2009, approved on May 14, 2009, document that no signs of spill or release were found. There have been no known spills or releases of materials from this SWMU 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 have been removed from this SWMU. This unit is being proposed for no further action because it no longer is active, has no evidence of releases to the environment, and is not believed to pose a risk to human health or the environment.

OPERABLE UNIT ASSIGNMENT: N/A



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