

DMSA C-337-21
Solid Waste Management Unit (SWMU) Assessment Report

SWMU/AOC NUMBER: 328

DATE OF ORIGINAL SAR: 12/01/00

DATE OF SAR REVISIONS: 03/01/10

REGULATORY STATUS: SWMU

LOCATION: Northeast quadrant of the C-337 Process Building between columns Mb42-43/P42-43.

APPROXIMATE DIMENSION OR CAPACITY: 2,448 ft²

FUNCTION: Temporary storage of materials.

BRIEF HISTORY: This supplemental waste storage area was established in 1984 when the generation rate of polychlorinated biphenyl low-level waste (LLW) exceeded the capacity of existing Toxic Substances Control Act (TSCA) waste storage facilities. On December 31, 1996, this area was deleased by the United States Enrichment Corporation to the U.S. Department of Energy (DOE) as a DOE Material Storage Area (DMSA).

From October 2007 through March 2009, 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 *Final Inventory and Characterization Report (FI/CR)* was submitted May 18, 2009, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on July 6, 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*, approved on April 14, 2006. The *Notification of Intent to Proceed with Closure* for this SWMU was submitted on June 30, 2009, and approved on December 15, 2009.

PRESENT OPERATIONAL STATUS: Inactive

DATES OPERATED: 1984 to 2009

SITE/PROCESS DESCRIPTION: An inside DOE storage area located on the northeast quadrant of the C-337 Process Building.

WASTE DESCRIPTION: This SWMU currently is empty. Newly discovered RCRA regulated hazardous/mixed waste formerly stored included leachate pit sludge, which also was categorized as TSCA waste. The TSCA mixed waste formerly stored included sewer sludge, contaminated sewage sludge, contaminated concrete, contaminated fill rock and soil, cast iron drain pipe, trench line concrete, soil and rock, laboratory waste, trash, dirt, concrete chunks, Zorball, floor sweep, empty drums with concrete residue, empty drums (damaged), and transite

asbestos. A detailed description of the characterized waste formerly stored in the SWMU can be found in the FI/CR.

WASTE QUANTITY: Currently 0 ft³; waste quantity removed 3,175 ft³

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

DESCRIPTION OF RELEASE AND MEDIA AFFECTED: Polychlorinated biphenyl spills were documented in this area on July 3, 1991, October 24, 1991, and May 5, 1992. The spills were cleaned and considered closed on July 4, 1991, November 27, 1991, and May 5, 1992, respectively, in accordance with TSCA requirements in effect at that time. There was no release to the environment.

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

DOCUMENTATION OF NO RELEASE: See Description of Release and Media Affected section above. The *Notification of Intent to Proceed with Closure* submitted on June 30, 2009, and approved on December 15, 2009, documents 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 since 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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January 12, 2010

