

DMSA C-333-05
Solid Waste Management Unit (SWMU) Assessment Report

SWMU/AOC NUMBER: 260

DATE OF ORIGINAL SAR: 12/01/00

DATE OF SAR REVISIONS: 03/15/09, 3/01/10

REGULATORY STATUS: SWMU

LOCATION: Northeast quadrant of the C-333 Process Building between columns Qx18-19/R18-19.

APPROXIMATE DIMENSION OR CAPACITY: 1,411 ft²

FUNCTION: Temporary storage of materials.

BRIEF HISTORY: This storage area was created in the late 1980s as a supplemental waste storage area when the low-level waste (LLW) generation rate exceeded the capacity of existing LLW storage capacity. 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 July 2008 to June 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 July 23, 2009, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on August 17, 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 to KDWM on September 11, 2009, and approved on October 8, 2009.

PRESENT OPERATIONAL STATUS: Inactive

DATES OPERATED: 1987 to 2009

SITE/PROCESS DESCRIPTION: An inside DOE storage area located in the northeast quadrant of the C-333 Process Building.

WASTE DESCRIPTION: This SWMU currently is empty. Newly discovered RCRA regulated mixed waste formerly stored consisted of crushed light bulb bases and respirator canisters. The Toxic Substances Control Act (TSCA) regulated waste formerly stored consisted of containers of asbestos, which were categorized as asbestos-containing material and also as LLW due to radiological contamination. The LLW formerly stored included trash, scrap metal, fiber glass, insulation, barium shot, asbestos, floor sweep, personal protective equipment, respirator

filters/canisters, wood pallets, and miscellaneous paper/plastic/glass/rags. Solid waste formerly stored consisted of one container of Tyveks/paper/plastic/rags. A detailed description of the characterized waste can be found in the FI/CR.

WASTE QUANTITY: Currently 0 ft³; waste quantity removed 3,128 ft³

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

DESCRIPTION OF RELEASE AND MEDIA AFFECTED: A polychlorinated biphenyl spill was documented in this area on February 4, 1992. The spill was cleaned on April 29, 1992, 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: The *Notification of Intent to Proceed with Closure* approved by KDWM on October 8, 2009, documents that no signs of spills or releases 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



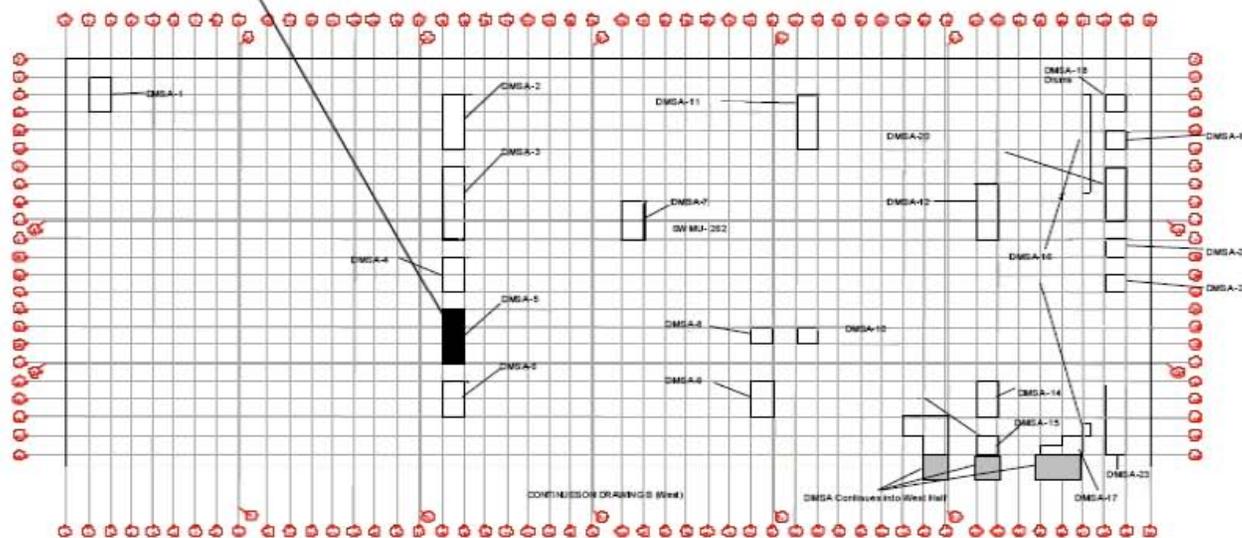
View 1



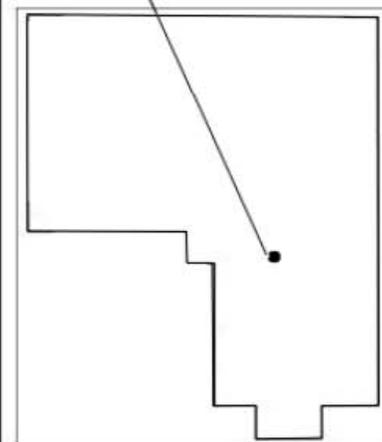
View 2

**SWMU 260
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2009**

SWMU 260



SWMU 260



Paducah Gaseous Diffusion Plant

LEGEND

 OFFICIAL DOE DMSA PER 12/31/96 AGREEMENT BETWEEN DOE AND USEC



C-333 Ground Floor, East Half - SWMU 260

U.S. DEPARTMENT OF ENERGY
DOE PORTSMOUTH/PADUCAH PROJECT OFFICE
PADUCAH GASEOUS DIFFUSION PLANT

