

DMSA C-333-02
Solid Waste Management Unit (SWMU) Assessment Report

SWMU/AOC NUMBER: 257

DATE OF ORIGINAL SAR: 12/01/00

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

REGULATORY STATUS: SWMU

LOCATION: Northeast quadrant of the C-333 Process Building between columns W18-19/X18-19.

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 generation rate of low-level waste (LLW) exceeded the capacity of existing LLW storage facilities. 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 July 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 September 3, 2009, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on November 5, 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 for KDWM approval on November 6, 2009.

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 hazardous/mixed waste formerly stored included circuit boards. The Toxic Substances Control Act regulated asbestos-containing material (ACM) formerly stored included containerized waste [e.g., insulation, personal protective equipment (PPE), plastic, cloth, and heat coats]. The ACM also was categorized as LLW due to radiological contamination. The LLW formerly stored consisted of wood pallets and containers of paper, plastic, wood, trash, PPE, respirator

canisters/cartridges, trap mix, asbestos insulation, scrap metal, and metal items. Solid waste formerly stored consisted of PPE, paper, plastic, and tape. A detailed description of the characterized waste can be found in the FI/CR.

WASTE QUANTITY: Currently 0 ft³; waste quantity removed 2,846 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 for KDWM approval on November 6, 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 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.

OPERABLE UNIT ASSIGNMENT: N/A



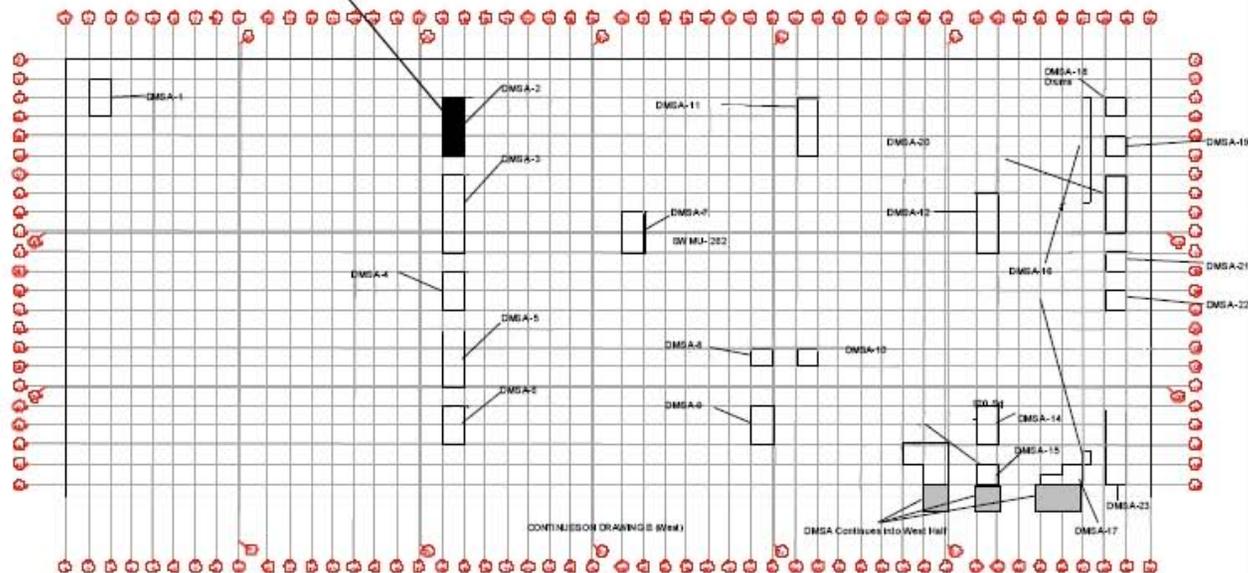
View 1



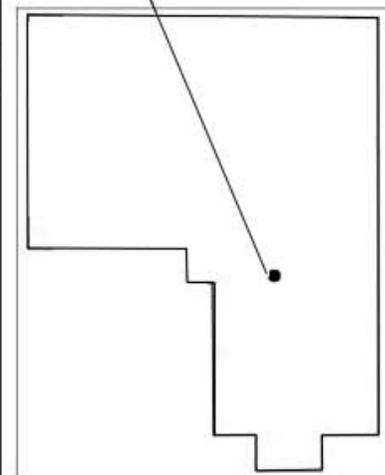
View 2

**SWMU 257
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2009**

SWMU 257



SWMU 257



Paducah Gaseous Diffusion Plant

LEGEND

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



C-333 Ground Floor, East Half - SWMU 257

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

