

**DMSA C-333-17 and DMSA C-333-36  
Solid Waste Management Unit (SWMU) Assessment Report**

**SWMU/AOC NUMBER:** 273

**DATE OF ORIGINAL SAR:** 12/01/00

**DATE OF SAR REVISIONS:** 08/21/02, 03/15/09, 03/01/10

**REGULATORY STATUS:** SWMU

**LOCATION:** Southwest quadrant of C-333 Process Building between columns Ma45-47/N45-47.

**APPROXIMATE DIMENSION OR CAPACITY:** 2,806 ft<sup>2</sup>

**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 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). This SWMU is comprised of two adjacent storage areas, DMSA C-333-17 and DMSA C-333-36.

From July 2008 to August 2009, DOE characterized the materials in this SWMU (DMSA C-333-17 and DMSA C-333-36) 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)* for DMSA C-333-17 was submitted September 3, 2009, to the Kentucky Division of Waste Management (KDWM). The *Final Inventory and Characterization Report (FI/CR)* for DMSA C-333-36 was submitted September 21, 2009. KDWM approved these FI/CRs on November 5, 2009.

No hazardous wastes were stored in DMSA C-333-17, so a Resource Conservation and Recovery Act (RCRA) closure is not required for this DMSA per the 2003 Agreed Order. However, hazardous wastes were stored in DMSA C-333-36, so RCRA closure activities were performed for this DMSA 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 DMSA C-333-36 was submitted for KDWM approval on November 6, 2009.

**PRESENT OPERATIONAL STATUS:** Inactive

**DATES OPERATED:** 1987 to 2009

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

**WASTE DESCRIPTION:** This SWMU currently is empty. Newly discovered RCRA regulated hazardous/mixed waste formerly stored consisted of one container of wood/plastic/paper/rubber, broken light bulbs, crushed light bulb bases, mercury light bulbs, and a lamp starter. The Toxic Substances Control Act regulated waste formerly stored included two containers of asbestos-containing material (ACM). This waste also was categorized as LLW due to radiological contamination. The LLW formerly stored consisted of trash, miscellaneous paper/plastic/wood, scrap metal, fiber glass insulation, personal protective equipment, alumina trap mix, miscellaneous metal, glass and rubber items, dry paint/scrap, respirator, cartridges, ACM, decontamination water, wood pallets, and secondary containment materials (e.g., Hypalon, polyvinyl chloride pipe/diking, and plywood). A detailed description of the characterized waste for each DMSA can be found in their respective FI/CR.

**WASTE QUANTITY:** Currently 0 ft<sup>3</sup>; waste quantity removed 2,903 ft<sup>3</sup>

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

**DESCRIPTION OF RELEASE AND MEDIA AFFECTED:** None Known

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

**DOCUMENTATION OF NO RELEASE:** The *Notification of Intent to Proceed with Closure* for DMSA C-333-36 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 SWMU. 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 273  
DMSA C-333-17  
2009**

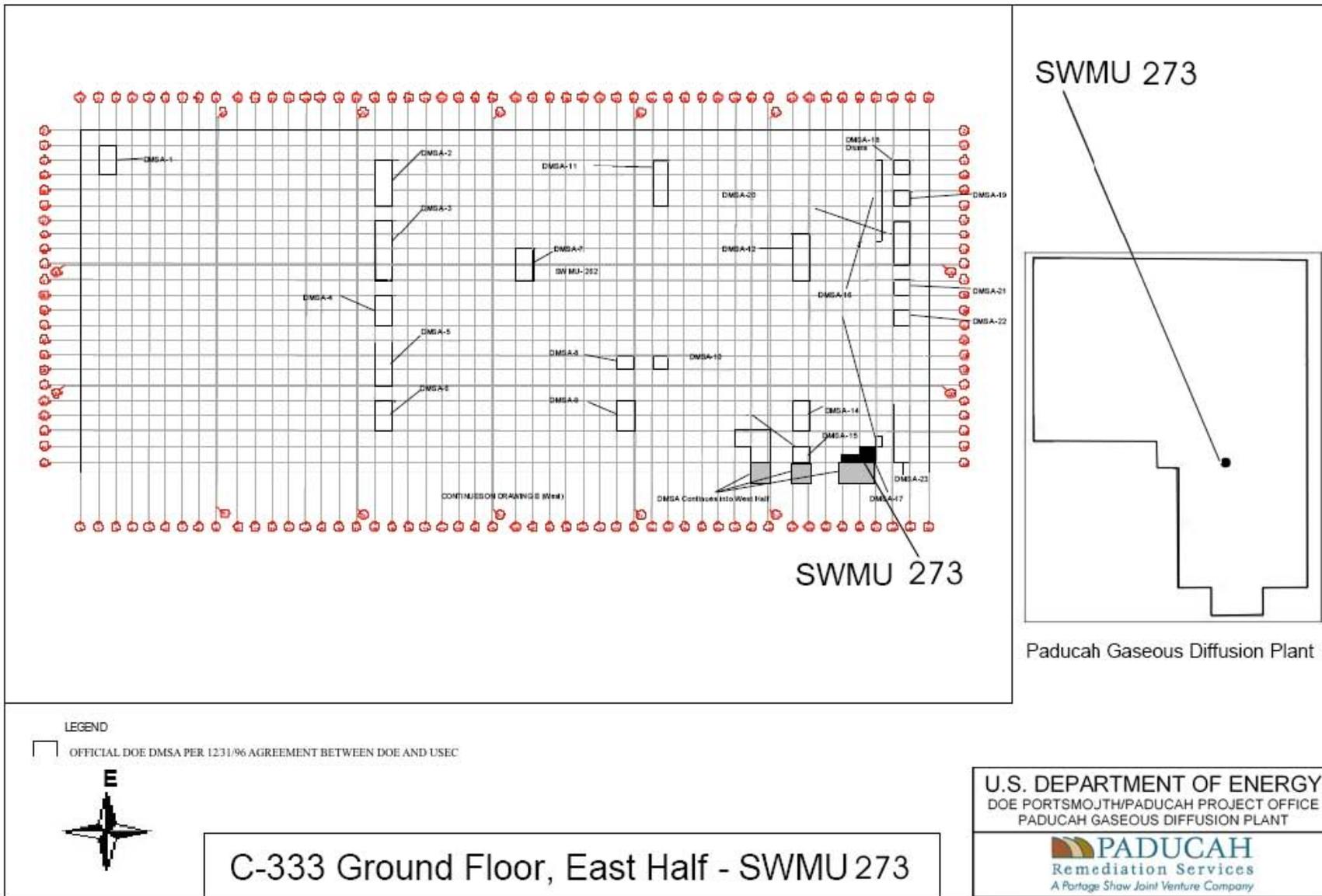


**View 1**

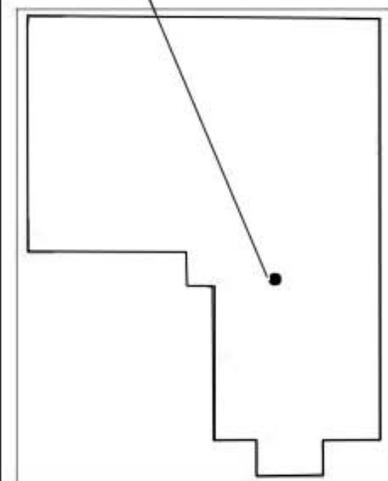


**View 2**

**SWMU 273  
DMSA C-333-36  
2009**



SWMU 273



Paducah Gaseous Diffusion Plant

LEGEND

OFFICIAL DOE DMSA PER 1231/96 AGREEMENT BETWEEN DOE AND USEC



C-333 Ground Floor, East Half - SWMU 273

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

