

**DMSA C-333-15 and DMSA C-333-33  
Solid Waste Management Unit (SWMU) Assessment Report**

**SWMU/AOC NUMBER:** 270

**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 the C-333 Process Building between columns Mb42-43/N42-43.

**APPROXIMATE DIMENSION OR CAPACITY:** 1,068 ft<sup>2</sup>

**FUNCTION:** Temporary storage of materials.

**BRIEF HISTORY:** In the late 1980s, the generation rate of low-level waste (LLW) exceeded the capacity of existing waste storage facilities, and areas in C-333 were established as supplemental waste storage areas. 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). This SWMU is comprised of two adjacent storage areas: DMSA C-333-15 and DMSA C-333-33.

From July 2008 to September 2009, DOE characterized the materials in this SWMU in accordance with the DMSA Characterization/Remediation Plan, which was incorporated as Appendix E of the 2003 Agreed Order.

The *Final Inventory and Characterization Reports (FI/CR)* for DMSA C-333-15 and DMSA C-333-33 were submitted September 25, 2009, to the Kentucky Division of Waste Management (KDWM). KDWM approved these FI/CRs on November 5, 2009.

No hazardous wastes were stored in DMSA C-333-15, 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-333-33, so 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 DMSA C-333-33 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 C-333 Process Building.

**WASTE DESCRIPTION:** This SWMU currently is empty. Newly discovered RCRA regulated

hazardous/mixed waste formerly stored consisted of a fuse, circuit boards, light bulbs, broken incandescent light bulbs, a light starter, and a container of hand table sludge. The Toxic Substances Control Act regulated waste formerly stored included a container of miscellaneous trash, which was categorized as asbestos-containing material. This waste also was identified as LLW due to radiological contamination. The LLW formerly stored included wood pallets and containerized waste such as floor sweep, process filters, trash, alumina/trap mix, absorbent materials (e.g., zorball, mops, pigs, pads, and pans), dry paint scrap, scrap metal, ceramic insulation, sand, wood pallets, clothing, and other miscellaneous wastes such as calcium carbonate, ammonium sulfate, paper/plastic, and personal protective equipment. A detailed description of the characterized waste from each DMSA can be found in their respective FI/CR.

**WASTE QUANTITY:** Currently 0 ft<sup>3</sup>; waste quantity removed 1335 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-333-33 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 270  
DMSA C-333-15  
2009**

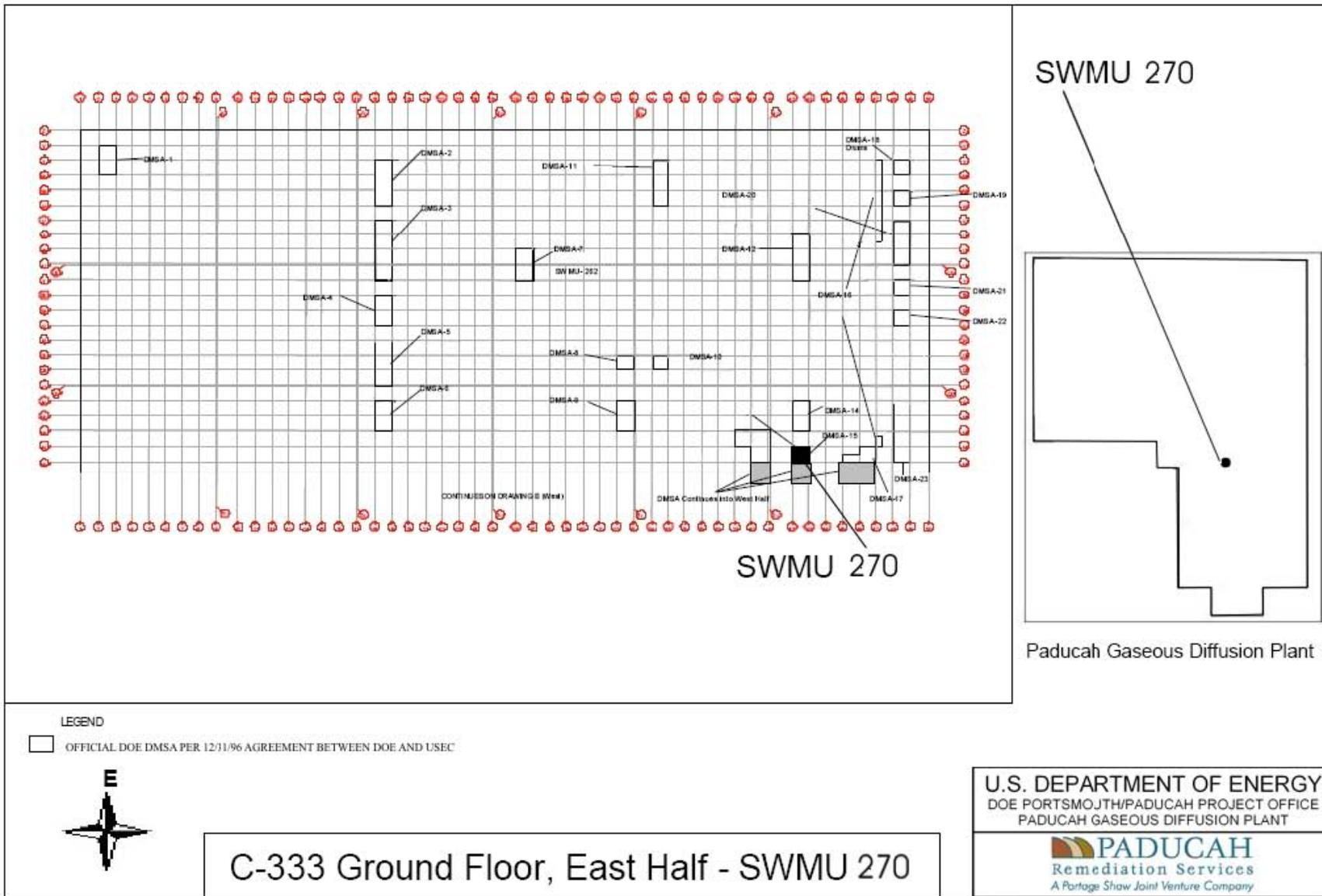


View 1



View 2

**SWMU 270  
DMSA C-333-33  
2009**



LEGEND

□ OFFICIAL DOE DMSA PER 12/11/96 AGREEMENT BETWEEN DOE AND USEC



C-333 Ground Floor, East Half - SWMU 270

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

