

**DMSA C-333-43**  
**Solid Waste Management Unit (SWMU) Assessment Report**

**SWMU/AOC NUMBER:** 296

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

**DATE OF SAR REVISIONS:** 3/21/03, 3/09/04, 02/01/05, 3/31/06; 03/15/09

**REGULATORY STATUS:** SWMU

**LOCATION:** Located in the southeast quadrant of the C-333 process building between columns B48-49/GA48-49

**APPROXIMATE DIMENSION OR CAPACITY:** 4,639 ft<sup>2</sup>

**FUNCTION:** Temporary storage of materials

**BRIEF HISTORY:** Most of the storage areas in C-333 were created during the Rad Area Reduction Project conducted from 1993 to 1995. The objective of this project was to consolidate excess material and equipment scattered throughout the building to provide additional nonradiological floor space. In 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 January 2002 to May 2006, DOE characterized the materials in this DMSA in accordance with the DMSA Characterization/Remediation Plan, which was incorporated into Appendix E of the 2003 Agreed Order. Five satellite accumulation areas (SAAs), identified as S-333-DMSA-43-01, S-333-DMSA-43-02, S-333-DMSA-43-03, S-333-DMSA-43-04, and S-333-DMSA-43-05, were established as needed to store Resource Conservation and Recovery Act (RCRA) hazardous waste items. SAAs S-333-DMSA-43-01, S-333-DMSA-43-02, S-333-DMSA-43-03 were closed on February 14, 2007; and SAAs S-333-DMSA-43-04, and S-333-DMSA-43-05 were closed on March 24, 2007.

The Final Inventory and Characterization Report (FI/CR) was submitted July 12, 2006, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on January 8, 2007.

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, submitted on December 22, 2005, and approved by KDWM on April 16, 2006. The *Notification of Intent to Proceed with Closure* was submitted on September 26, 2006, and approved by KDWM on October 24, 2006. The *Final Closure Certification Report* was submitted on April 2, 2007, and approved by KDWM on May 8, 2007.

**PRESENT OPERATIONAL STATUS:** Inactive

**DATES OPERATED:** 1993 to 2006

**SITE/PROCESS DESCRIPTION:** An inside DOE storage area located in the southeast quadrant of the C-333 process building.

**WASTE DESCRIPTION:** This SWMU currently is empty. Newly discovered RCRA hazardous waste formerly stored included Ni-Cad batteries, light bulbs, aerosol cans, light starters, respirator cartridges, propylene glycol, floor sweep, ink, paint pen, Munters fill, welding rods, and solder. Newly generated RCRA hazardous waste removed included fuses, oils, vacuum tubes, light bulbs, circuit boards, synchronous converters, capacitors, and batteries. The Toxic Substances Control Act waste formerly stored included capacitors, condensers, light ballasts, asbestos containing materials, and oil filled transformers. The low-level waste formerly stored in the DMSA included large pieces of equipment, such as equipment wagons and carts; drums of radiologically contaminated trash (paper, plastic, rags, wood, and tacky mats); drums of scrap metal and oily absorbents, and insulation; empty drums; and buckets. Numerous empty cabinets and containers were categorized as landfill solid waste. Additional landfill solid waste formerly stored included wood, plastic, and metal items. Reusable material identified in this DMSA included three pallets of flanges, one transformer with cabinet, two transformer coils in boxes, and miscellaneous mounting hardware in a wood box. A detailed description of the characterized waste can be found in the FI/CR.

**WASTE QUANTITY:** Currently 0 ft<sup>3</sup>; waste quantity removed 11,625 ft<sup>3</sup>

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

**DESCRIPTION OF RELEASE AND MEDIA AFFECTED:**

<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* submitted on September 26, 2006, approved by KDWM on October 24, 2006, and the *Closure Certification Report* submitted on April 2, 2007, approved on May 8, 2007, document 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

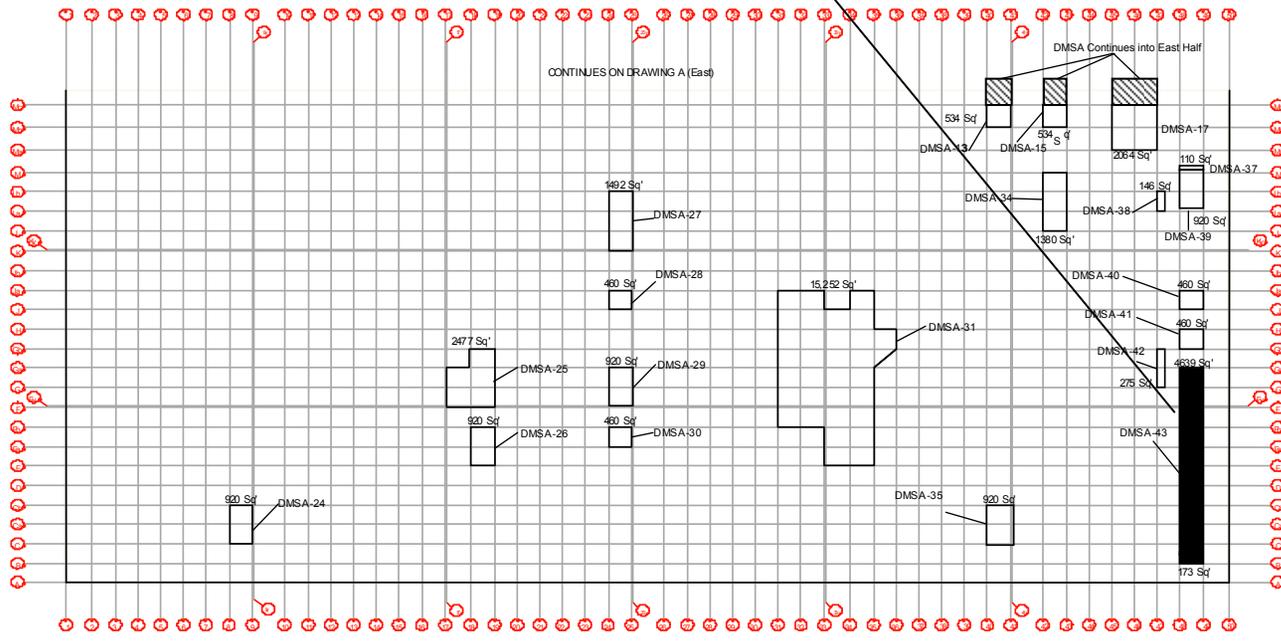
**RFI NECESSARY:** No. This SWMU is inside an operational process building with a concrete floor. This unit is being proposed for no further action since it no longer is active, has no evidence of releases to the environment, and is not believed to pose a risk to human health or the environment.

**OPERABLE UNIT ASSIGNMENT:** N/A

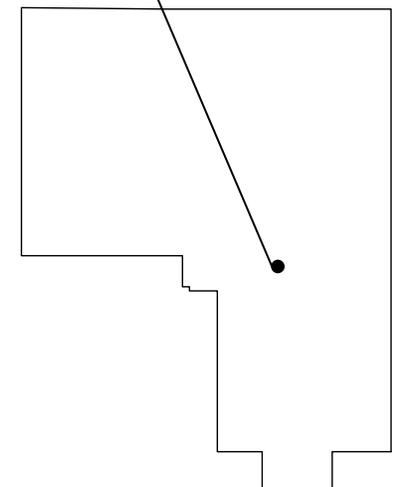


SWMU 296  
DMSA C-333-43  
View Facing Southwest  
November 5, 2007

# SWMU 296



# SWMU 296



Paducah Gaseous Diffusion Plant

Official DOE DMSA per 12/31/06 Agreement between DOE and USEC



## C-333 Ground Floor, West Half - SWMU 296

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



Figure No. C5ac90002SK278  
Date 2-19-08