DMSA C-333-42
Solid Waste Management Unit (SWMU) Assessment Report

SWMU/AOC NUMBER: 295

DATE OF ORIGINAL SAR: 12/01/00

DATE OF SAR REVISIONS: 01/04/05, 12/01/09

REGULATORY STATUS: SWMU

LOCATION: Near the south wall of the C-333 Process Building near columns G47-48/Gb 47-48.

APPROXIMATE DIMENSION OR CAPACITY: 275 ft^2

FUNCTION: Temporary storage of materials

BRIEF HISTORY: Most of the storage areas in C-333 were created in 1995 during the Rad Area Reduction Project. The objective of this project was to consolidate excess material and equipment scattered throughout the building to provide additional nonradiological floor space.

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). From November 2002 to May 2005, 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 June 17, 2005, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on May 18, 2006.

The *Notification of Intent to Proceed with Closure* for this SWMU was submitted to KDWM on December 30, 2003. Resource Conservation Recovery Act (RCRA) closure activities later 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 to KDWM on December 22, 2005, and approved on April 14, 2006. A RCRA Closure Certification Report was submitted to KDWM on October 18, 2006, and approved on February 13, 2007.

PRESENT OPERATIONAL STATUS: Inactive

DATES OPERATED: 1995 to 2007

SITE/PROCESS DESCRIPTION: An inside DOE storage area located near the south wall of the C-333 Process Building.

WASTE DESCRIPTION: The SWMU currently is empty. The majority of the waste formerly stored in the DMSA was classified as low-level waste (LLW), which included all 55-gal waste drums (containing floor sweep, floor sweep and mop heads, paper and plastic trash, or metal), the contents of the 7A Type A box, metal and wooden pallets, an empty 55-gal poly drum, hydraulic hoses, an alkaline battery, painted breaker boxes, and some metal items. Newly discovered RCRA hazardous waste formerly stored included welding rods, light starters, light

bulb bases, a mass of solder, and a seal wire with lead. Newly generated RCRA hazardous waste formerly stored consisted of fuses, circuit boards, and a lamp holder fitting. The circuit boards also were classified as LLW due to radiological contamination. The Toxic Substances Control Act (TSCA) polychlorinated biphenyl (PCB) waste formerly stored included three capacitors removed from equipment in the 7A Type A box. The capacitors also were classified as LLW due to radiological contamination. The TSCA PCB/LLW bulk waste formerly stored included several painted breaker boxes, which contained greater than 49 parts per million PCBs. A detailed description of the characterized waste formerly stored in the SWMU can be found in the FI/CR.

WASTE QUANTITY: Currently 0 ft^3, waste quantity removed 379 ft^3

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

DESCRIPTION OF RELEASE AND MEDIA AFFECTED: The original SAR noted evidence of a spill on a B-25 box, but it was not known whether the spill occurred within this storage area or prior to the box being moved into the area. There was an absorbent pad on the B-25 box that appears to have been used to soak up the spill (Note: There is a PCB trough overhead, but no evidence that the spill originated from the trough). The original SAR also indicated that there was a manhole cover located in the aisle next to this SWMU and that the manhole cover might lead to the storm sewer. In January 2005, DMSA field personnel confirmed that a manhole is indeed located within this SWMU; however, the manhole cover leads to a sealed electrical feeder vault, instead of the storm sewer.

GROUNDWATER:	None Known
SURFACE WATER:	None Known
SOIL:	None Known
ECOLOGY AFFECTED: (i.e. threatened/endangered species)**:**	None Known

DOCUMENTATION OF NO RELEASE: The *Agreed Order Closure Plan for the DOE Material Storage Areas at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, BJC/PAD-720/R3, approved by KDWM on April 14, 2006, and the Closure Certification for DMSA C-333-42 submitted on October 18, 2006, approved by KDWM on February 13, 2007, document that no signs of spill or release were found. There have been no known spills or releases of materials from this SWMU to the environment.

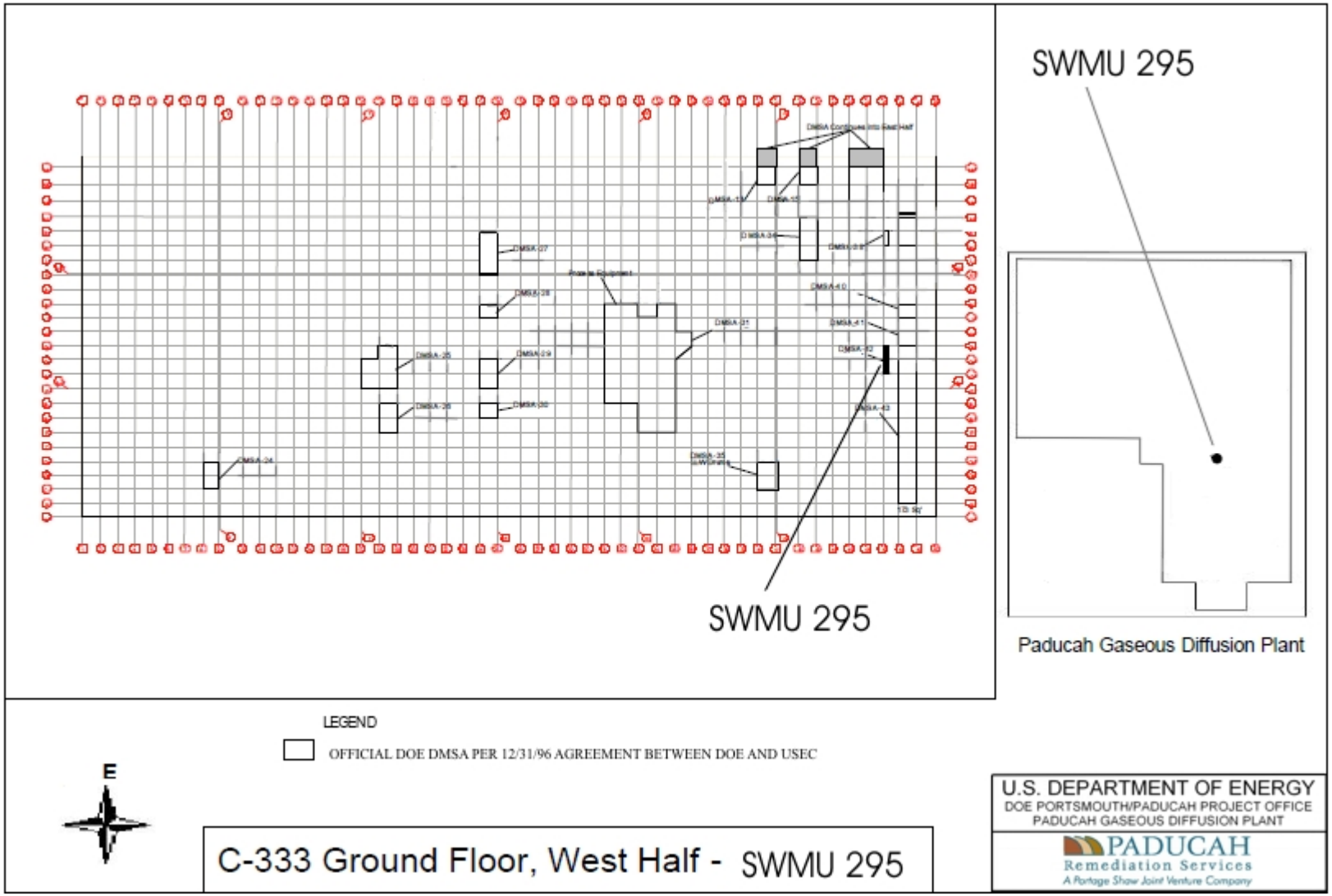
IMPACT ON OR BY OTHER SWMU/AOC: There is no evidence that this SWMU impacts or is being impacted by other SWMUs.

PRG COMPARISON: N/A

RFI NECESSARY: No. The 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

SWMU 295
DMSA C-333-42
May 19, 2005


SWMU 295
SWMU 295
Paducah Gaseous Diffusion Plant
LEGEND
OFFICIAL DOE DMSA PER 12/31/96 AGREEMENT BETWEEN DOE AND USEC
E
C-333 Ground Floor, West Half - SWMU 295
U.S. DEPARTMENT OF ENERGY
DOE PORTSMOUTH/PADUCAH PROJECT OFFICE
PADUCAH GASEOUS DIFFUSION PLANT
PADUCAH
Remediation Services
A Portage Shaw Joint Venture Company