

DMSA C-333-16
Solid Waste Management Unit Assessment Report

SWMU/AOC NUMBER: 560

DATE OF ORIGINAL SAR: 3/16/06

DATE OF SAR REVISIONS: 12/21/07

REGULATORY STATUS: SWMU

LOCATION: Located along the east side of the C-333 process building between columns Na47-48/Ub47-48

APPROXIMATE DIMENSION OR CAPACITY: 1,312 ft²

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 1993-1995. The objective of this project was to consolidate excess material and equipment scattered throughout the building to provide additional non-radiological controlled floor space. In 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). Two hundred and eighty drums of uranium tetrafluoride (UF₄) were stored in this area. In 2005, the drums of UF₄ were declared a waste and then shipped to Bear Creek in Oak Ridge, Tennessee, for processing before shipping the drums to Envirocare in Utah for disposal. As source material within the meaning of the Atomic Energy Act, UF₄ is not a solid waste; however, during the processing of the drums, solid waste (e.g., floor sweep) was discovered in fifteen of the drums.

The Final Inventory and Characterization Report (FI/CR) was submitted June 13, 2007, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on July 26, 2007.

RCRA closure activities are 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*. The *Notification of Intent to Proceed with Closure* was submitted on July 9, 2007, to KDWM.

PRESENT OPERATIONAL STATUS: Inactive

DATES OPERATED: 1995–2007

SITE/PROCESS DESCRIPTION: A DOE material storage area located on the east side of the C-333 process building.

WASTE DESCRIPTION: The SWMU is currently empty. Newly discovered RCRA regulated hazardous waste formerly stored included a drum of magnesium powder. The TSCA regulated wastes formerly stored included floor sweep mixed with UF₄ and dry active wastes (DAW). The LLW formerly stored included drums of UF₄/floor sweep/DAW and calcium carbonate. A detailed description of the characterized waste can be found in the Final Inventory and Characterization Report.

WASTE QUANTITY: currently 0 ft³ - 3,192.4 ft³ removed

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:	None known

DOCUMENTATION OF NO RELEASE: The *Notification of Intent to Proceed with Closure* submitted on July 9, 2007, 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.

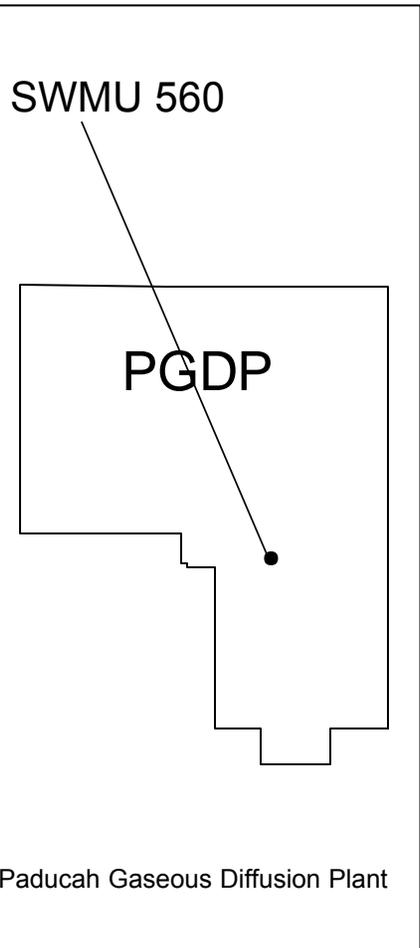
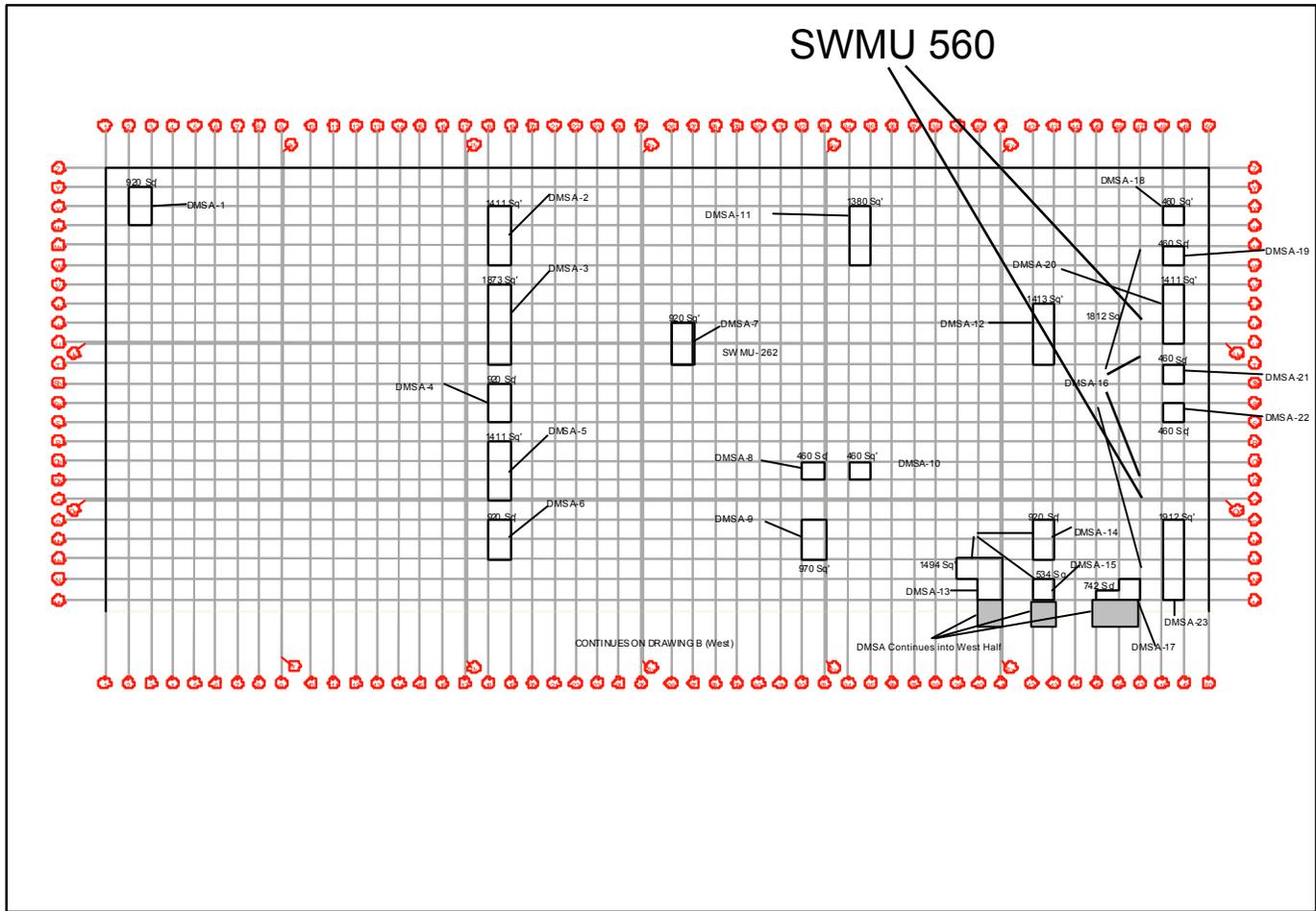
PRG COMPARISON: N/A

RFI NECESSARY: No. 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 is no longer 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 560
DMSA C- 333-16
View Facing East
November 5, 2007



LEGEND

 OFFICIAL DOE DMSAs PER 12/31/96

AGREEMENT BETWEEN DOE AND USEC



C-333 Ground Floor, East Half - SWMU 560

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



Figure No. C-333-16-560
Date 03-15-06