

**DMSA C-400-04**  
**Solid Waste Management Unit (SWMU) Assessment Report**

**SWMU/AOC NUMBER:** 350

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

**DATE OF SAR REVISIONS:** 1/26/04; 03/15/09

**REGULATORY STATUS:** SWMU

**LOCATION:** Northwest corner of the C-400 process building at columns A 12.5; A 13.5

**APPROXIMATE DIMENSION OR CAPACITY:** 225 ft<sup>2</sup>

**FUNCTION:** Temporary storage of materials

**BRIEF HISTORY:** In the 1960s, this room was utilized for the refluorination of oil by the Miller fluorinated lubricant (MFL) system. The MFL system was utilized for the reconditioning of fluorinated oil. Changes in operational procedures and equipment resulted in discontinuing use of the MFL system in the early 1970s. From the late 1970s until 2000, this room was used as a staging/storage area for materials to be processed for gold recovery and a storage area for excess material and equipment. 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). From April 2000 to January 2002, DOE began characterization/remediation of the materials in this DMSA in accordance with the *DOE Oak Ridge Operations Uranium and Engineering Services Plan of Action*, March 2000, and the *Work Plan for the DOE Material Storage Area C-400-04 Project at the Paducah Gaseous Diffusion Plant*, W/PAD-00-0066, March 2000.

The Final Inventory and Characterization Report (FI/CR) was submitted on July 24, 2003, with supplemental information provided on August 30, 2005, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on September 29, 2006.

Resource Conservation and Recovery Act (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 to KDWM on December 22, 2005, and approved by KDWM on April 16, 2006. The *Final Closure Certification Report* was submitted to KDWM on October 18, 2006, and approved by KDWM on February 13, 2007.

**PRESENT OPERATIONAL STATUS:** Inactive

**DATES OPERATED:** 1960s to 1970s MFL processing  
1970s to 2000 storage area

**SITE/PROCESS DESCRIPTION:** This area originally was utilized to recondition fluorinated oil. Once the MFL process was discontinued, this area became a storage area.

**WASTE DESCRIPTION:** The SWMU currently is empty. Newly discovered RCRA hazardous waste formerly stored included various acids, vacuum dust, and waste oil sludge. The Toxic Substances Control Act waste formerly stored included an empty container. The low-level waste formerly stored included wood, metal, plastic, carboys, empty containers, ferrous sulfate, sodium hydroxide, personal protective equipment, fiber frax, detergent, and dry bleach. Four containers of material were classified as transuranic (TRU) mixed waste. One of the TRU wastes was nitric acid/<sup>237</sup>Np solution (also characterized as a RCRA waste). The three remaining TRU wastes generated from activities associated with neutralization of the residual nitric solution remaining in the original container. A detailed description of the characterized waste formerly stored in the SWMU can be found in the FI/CR. The MFL equipment remains fixed in the SWMU.

**WASTE QUANTITY:** Currently 0 ft<sup>3</sup>; waste quantity removed 565 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 December 22, 2005, approved on April 16, 2006, and the *Closure Certification Report*, submitted on October 18, 2006, approved on February 13, 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. This SWMU is inside an operational process building with a concrete floor. All wastes, with the exception of the MFL equipment, have been removed from this DMSA. 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. Fixed equipment in the SWMU will be addressed as part of the decontamination and decommissioning of the gaseous diffusion plant.

**OPERABLE UNIT ASSIGNMENT:** N/A



SWMU 350  
DMSA C-400-04  
View Facing Northwest  
October 25, 2007



SWMU 350  
DMSA C-400-04  
View Facing North  
October 25, 2007



SWMU 350  
DMSA C-400-04  
View #2 Facing Northwest  
October 25, 2007

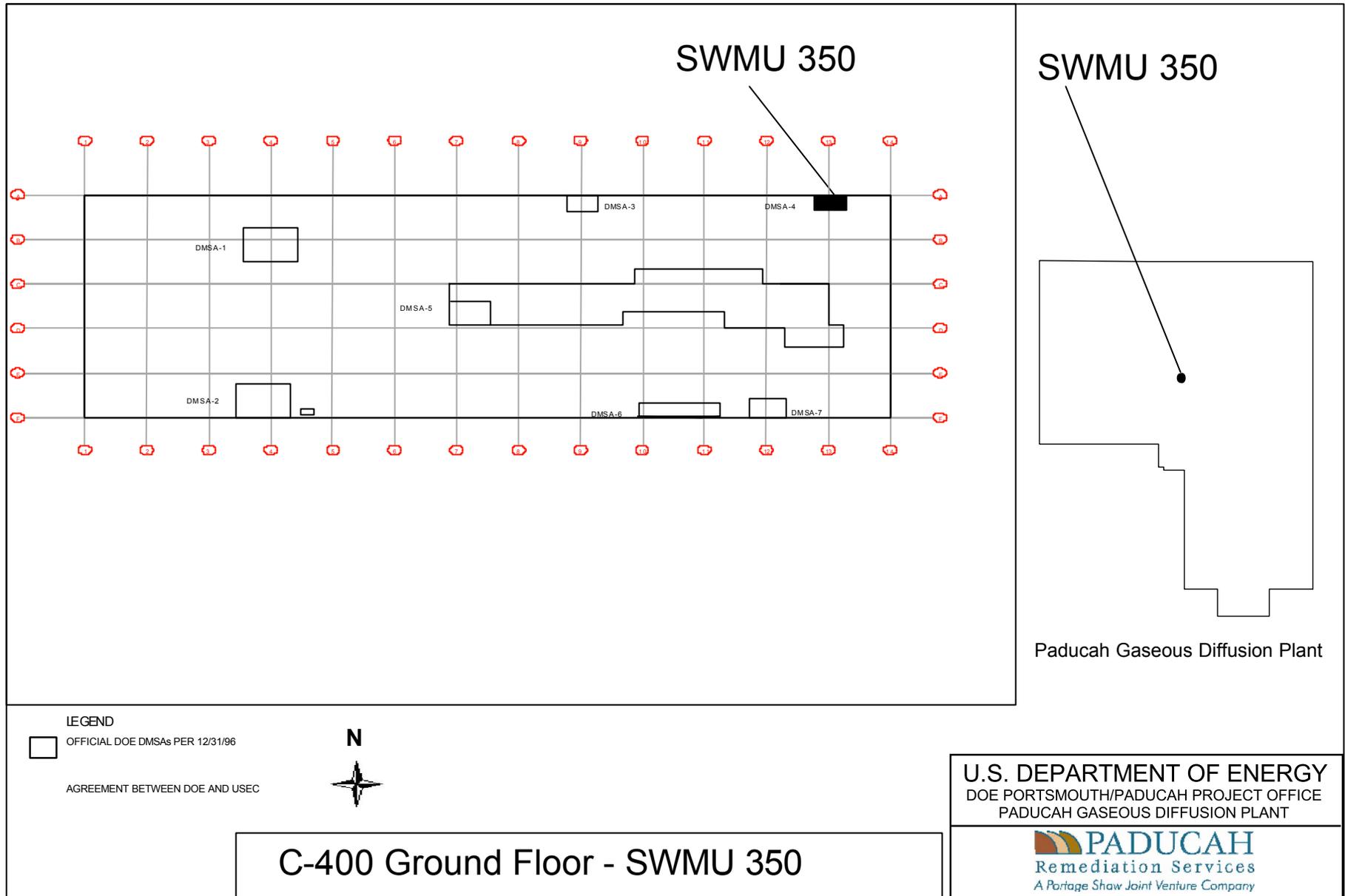


Figure No. C-400-04-350  
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