

DMSA C-720-01
Solid Waste Management Unit Assessment Report

SWMU/AOC NUMBER: 356

DATE OF ORIGINAL SAR: 12/01/00

DATE OF SAR REVISIONS: 12/21/07

REGULATORY STATUS: SWMU

LOCATION: Located along the north wall of the C-720 Building between columns K11-12/L11-12

APPROXIMATE DIMENSION OR CAPACITY: 196 ft²

FUNCTION: Temporary storage of materials

BRIEF HISTORY: This SWMU contains a varnish system that consists of two tanks - the empty varnish liquor (holding) tank and the working (impregnating) tank. The two tanks extend through the ground floor into the basement area. In the mid 1980s, the remaining varnish was pumped into a secondary container and the working tank was sandblasted to remove the congealed residue. The varnish that remains in the system is present as a congealed mass, which was determined to be non-regulated during characterization. In 1996 this area was declassified by the United States Enrichment Corporation to the U.S. Department of Energy (DOE) as a DOE Material Storage Area (DMSA). In December 2002, DOE began characterization and remediation of the materials in this DMSA in accordance with the DMSA Characterization/Remediation Plan, which later was incorporated as Appendix E of the 2003 Agreed Order. The varnish system and its associated motor and piping have been characterized and remain in-place in the DMSA because they are attached to the building support and utilities.

Characterization activities were completed in April 2006. The Final Inventory and Characterization Report (FI/CR) was submitted June 9, 2006, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on January 8, 2007.

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. The *Notification of Intent to Proceed with Closure* was submitted on August 10, 2006. A RCRA Closure Certification Report was submitted to the KDWM in April 2, 2007, and was approved by KDWM on May 8, 2007.

PRESENT OPERATIONAL STATUS: Inactive

DATES OPERATED: 1950s to early 1980s.
1996 to 2006 DOE material storage area

SITE/PROCESS DESCRIPTION: A DOE storage area located in the C-720 building that contains two fixed tanks: the varnish holding tank and the working (impregnating) tank.

WASTE DESCRIPTION: The waste has been removed from the SWMU. Newly discovered RCRA hazardous waste formerly stored included one 30-gallon drum half-full of floor sweep. The low-level wastes formerly stored included drip pans, carts, stands, conduit, an empty coffee can, 5-gallon container of floor sweep, a viscometer, wood items, and an empty 5-gallon drum. The non-regulated congealed varnish remains in the fixed system. A detailed description of the characterized waste can be found in the Final Inventory and Characterization Report.

WASTE QUANTITY: currently 0 ft³ - 18 ft³ removed

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

DOCUMENTATION OF NO RELEASE: The *Notification of Intent to Proceed with Closure* submitted on August 10, 2006, and the Closure Certification DMSA C-720-01 submitted on April 2, 2006, approved by KDWM 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 facility to the environment. The basement below this system was inspected periodically when in use, and no evidence of leakage was found.

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

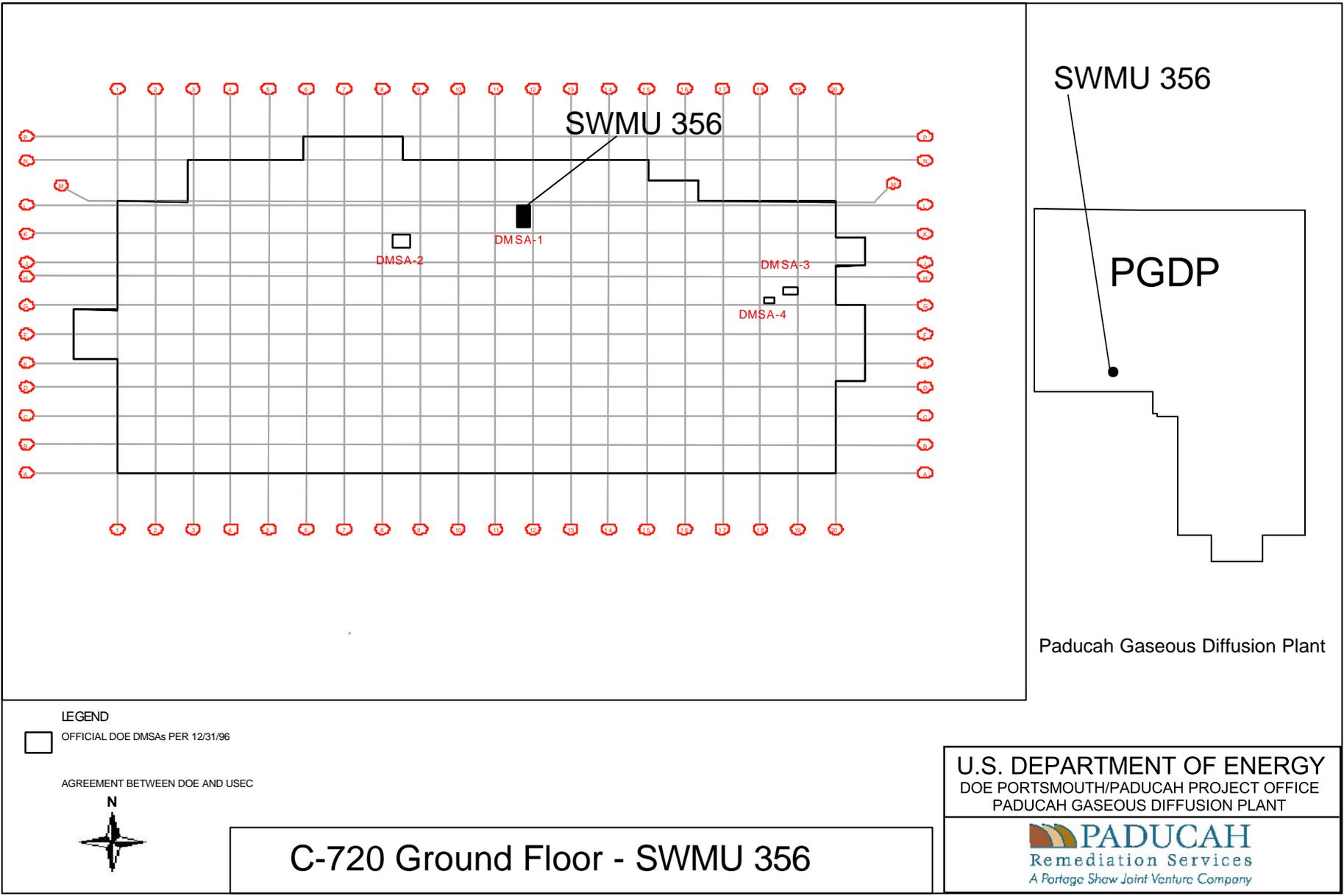
PRG COMPARISON: N/A

RFI NECESSARY: No. The SWMU is inside an operational process building with a concrete floor. 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. The varnish system has been characterized and remains in-place in the DMSA to be addressed as part of the decontamination and decommissioning of the C-720 Building.

OPERABLE UNIT ASSIGNMENT: N/A



SWMU 356
DMSA C-720-01
View Facing North
November 6, 2007



LEGEND
 □ OFFICIAL DOE DMSAs PER 12/31/96

AGREEMENT BETWEEN DOE AND USEC



C-720 Ground Floor - SWMU 356

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



Figure No. C-720-01-356
 Date 11-21-00