

**DMSA C-720-02**  
**Solid Waste Management Unit (SWMU) Assessment Report**

**SWMU/AOC NUMBER:** 357

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

**DATE OF SAR REVISIONS:** 03/15/09

**REGULATORY STATUS:** SWMU

**LOCATION:** In the north central part of the C-720 Maintenance and Stores Building between columns J8-9/K8-9.

**APPROXIMATE DIMENSION OR CAPACITY:** 182 ft<sup>2</sup>

**FUNCTION:** Temporary storage of material.

**BRIEF HISTORY:** The area contains a vacuum welding system used to join two pieces of metal together in a furnace with a brazing compound; vacuum was applied to the furnace to prevent oxidation. The equipment was not used since mid 1970s. 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) on December 31, 1996.

From July 2007 to August 2007, DOE characterized 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 October 19, 2007, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on November 30, 2007. Resource Conservation and Recovery Act closure was not required for this SWMU, since no hazardous wastes were discovered in this unit, per the 2003 Agreed Order.

**PRESENT OPERATIONAL STATUS:** Inactive

**DATES OPERATED:** Unknown to 1970s – Maintenance operations  
1996 to 2007 – DOE material storage area

**SITE/PROCESS DESCRIPTION:** An inside DOE storage area located in the north central part of the C-720 Maintenance and Stores Building that contains a fixed vacuum welding system.

**WASTE DESCRIPTION:** The SWMU currently is empty. The low-level waste formerly stored included wooden items, electric fans, empty buckets, a chair, a rubber mat, a fiberboard container with graphite felt, and miscellaneous metal items such as pipe racks, electrical conduit, a stool, an electrical panel door, a metal strap, and a padlock. A detailed description of the characterized waste formerly stored and the fixed equipment in the SWMU can be found in the FI/CR.

**WASTE QUANTITY:** Currently 0 ft<sup>3</sup>; waste quantity removed 259 ft<sup>3</sup>

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

**DESCRIPTION OF RELEASE AND MEDIA AFFECTED:** None Known

<b>GROUNDWATER:</b>	None Known
<b>SURFACE WATER:</b>	None Known
<b>SOIL:</b>	None Known
<b>ECOLOGY AFFECTED (i.e., threatened/endangered species):</b>	None Known

**DOCUMENTATION OF NO RELEASE:** No documents were identified indicating a spill or release at this unit.

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

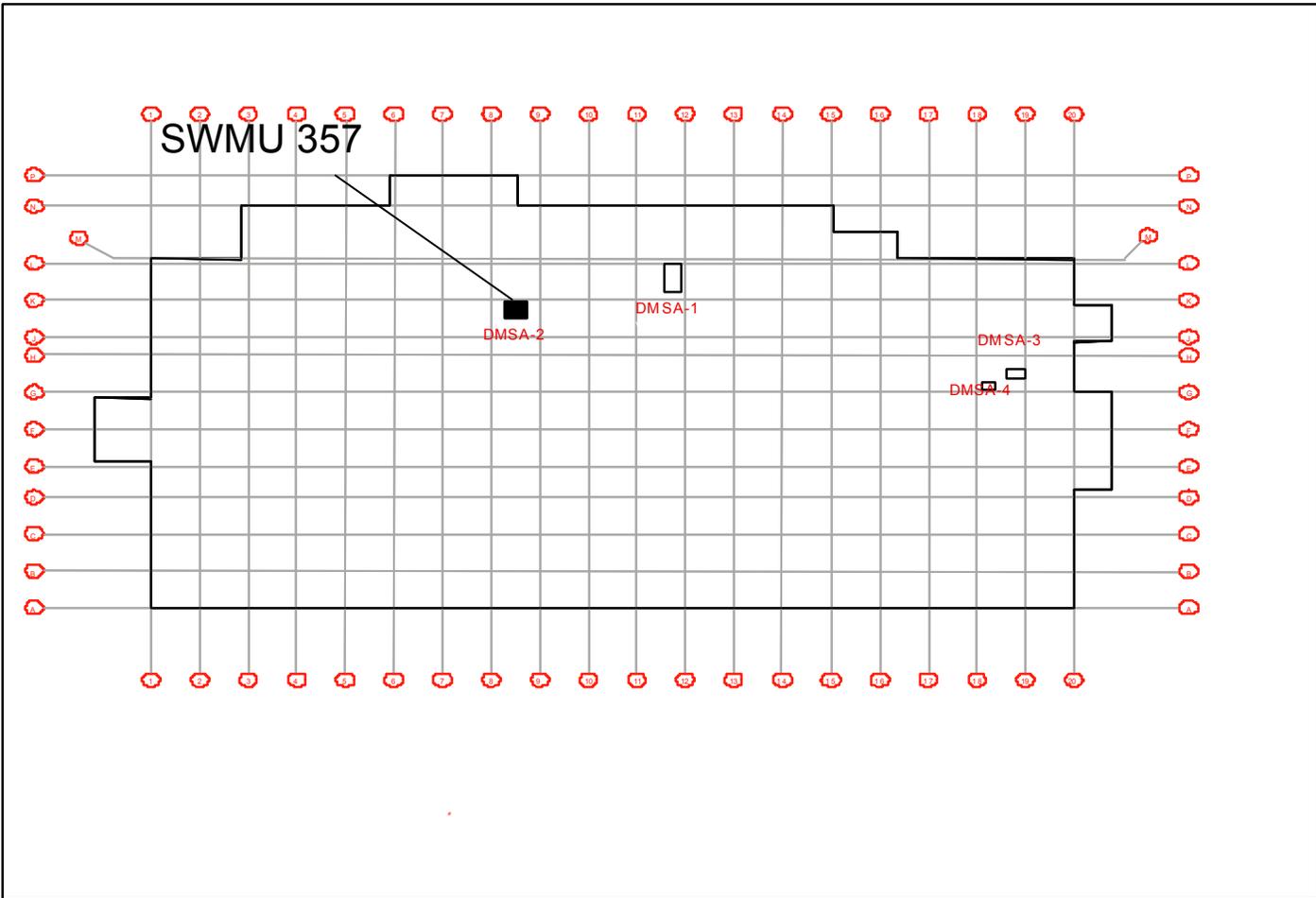
**PRG COMPARISON:** N/A

**RFI NECESSARY:** No. This SWMU is located 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 a release to the environment, and is not believed to pose a risk to human health and the environment. The vacuum welding system was characterized and remains in place to be addressed as part of the decontamination and decommissioning of this building.

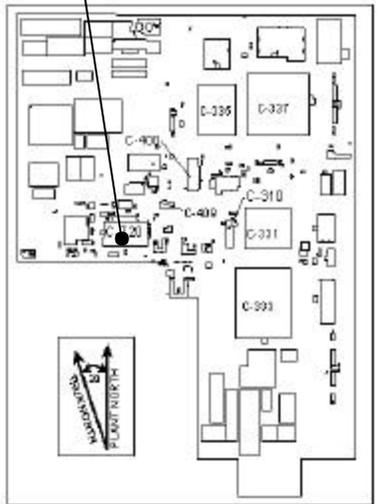
**OPERABLE UNIT ASSIGNMENT:** N/A



**SWMU 357  
DMSA C-720-02  
2007**



SWMU 357



Paducah Gaseous Diffusion Plant

LEGEND

 OFFICIAL DOE DMSAs PER 12/31/96

AGREEMENT BETWEEN DOE AND USEC



C-720 Ground Floor - SWMU 357

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



**PADUCAH**  
Remediation Services  
*A Portage Shaw Joint Venture Company*

Figure No. C-720-02-357  
Date 11-21-00