

DMSA C-400-06
Solid Waste Management Unit (SWMU) Assessment Report

SWMU/AOC NUMBER: 352

DATE OF ORIGINAL SAR: 12/01/00

DATE OF SAR REVISIONS: 3/15/09

REGULATORY STATUS: SWMU

LOCATION: Located in the northeast side of the C-400 process building between columns F9-F12

APPROXIMATE DIMENSION OR CAPACITY: 600 ft²

FUNCTION: Temporary storage of materials

BRIEF HISTORY: The C-400 facility houses 10 chemical tanks that were used until 1974 to clean metal for plating operations. These 10 tanks were released as U.S. Department of Energy (DOE) Material Storage Areas (DMSAs) on December 31, 1996. From November 2002 to August 2006, 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 August 29, 2006, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on January 8, 2007. The tanks are considered fixed equipment and will be removed with the decontamination and decommissioning of this building.

PRESENT OPERATIONAL STATUS: Inactive

DATES OPERATED: Unknown to 1974

SITE/PROCESS DESCRIPTION: A designated DOE storage area located in the C-400 Building that contains 10 fixed tanks. Seven tanks are enclosed in a large containment pan/unit that extends below floor level. The top of the containment unit is approximately three feet above floor level. Three tanks are located outside the containment unit. The tanks are lined with acid resistant ceramic tiles. Acids utilized in the cleaning/anodizing process included sulfuric, nitric, and chromic acids. Additional chemicals used in this process included Smut Go #2 and Aluma-gold. The 10 tanks, their associated piping, the containment unit, and a cathode fuse disconnect panel are fixed equipment.

WASTE DESCRIPTION: The SWMU currently is empty. Low-level waste stored were pieces of waste equipment, such as spreader bars, a lifting fixture, equipment cleaning racks, and a portable wash tank containing unused soda ash. A detailed description of the characterized waste can be found in the FI/CR.

WASTE QUANTITY: Currently 0 ft³; waste quantity removed 228 ft³

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 AFFECTED (i.e., threatened/endangered species):	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: No evidence exists that this SWMU impacts or is being impacted by other SWMUs.

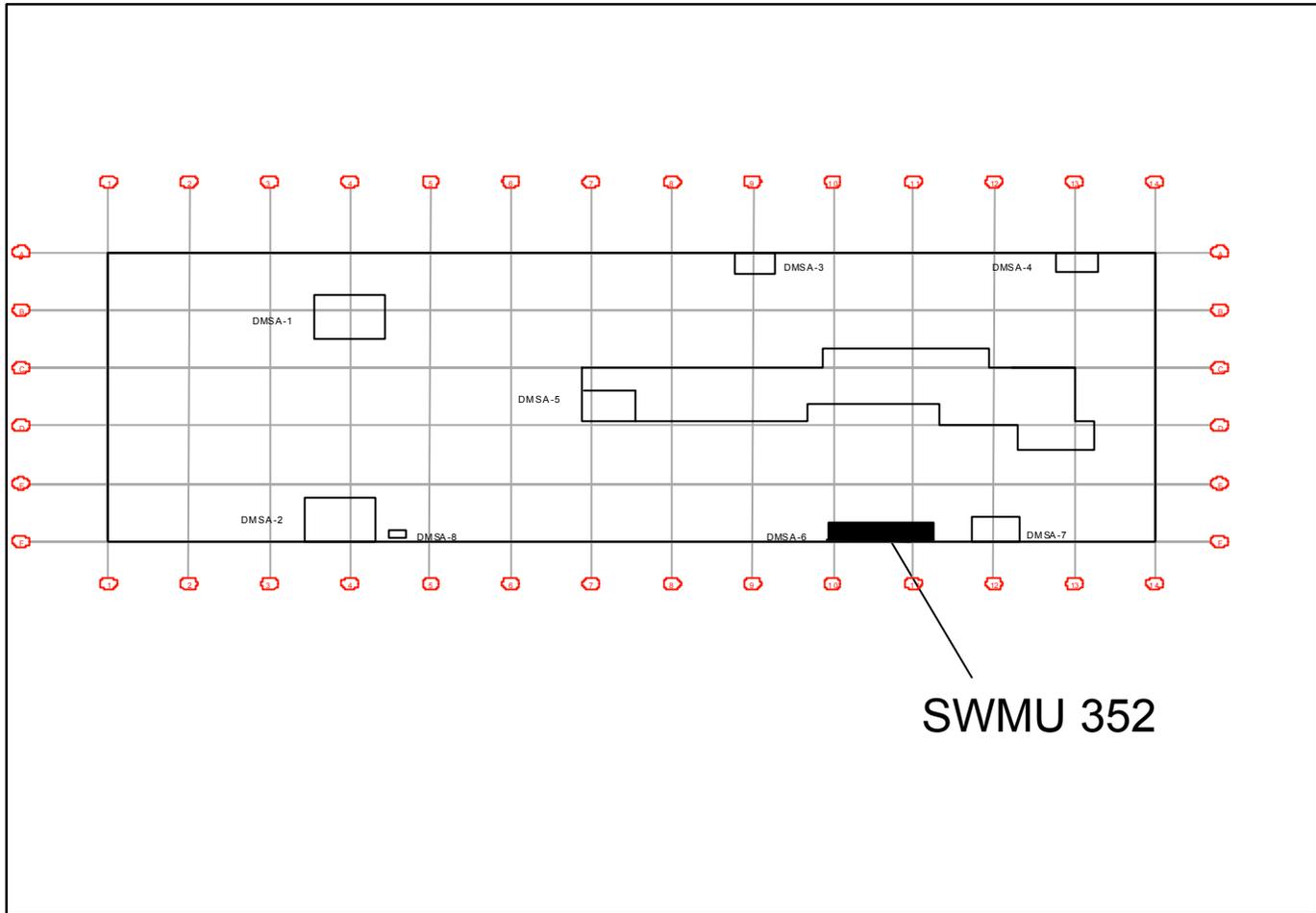
PRG COMPARISON: N/A

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 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.

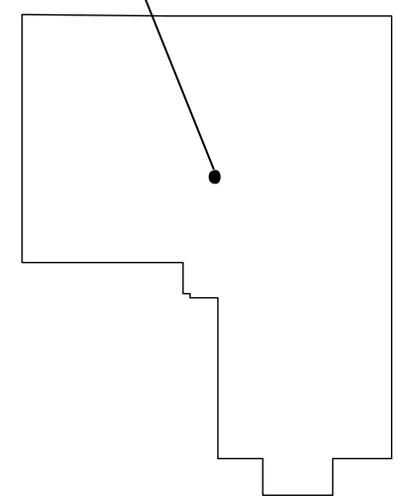
OPERABLE UNIT ASSIGNMENT: N/A



SWMU 352
DMSA C-400-06
View Facing North
October 25, 2007



SWMU 352



Paducah Gaseous Diffusion Plant

SWMU 352

LEGEND

 OFFICIAL DOE DMSAs PER 12/31/96

AGREEMENT BETWEEN DOE AND USEC



C-400 Ground Floor - SWMU 352

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



Figure No. C-400-06-352
Date 04-24-08