

DMSA C-310-01
Solid Waste Management Unit (SWMU) Assessment Report

SWMU/AOC NUMBER: 230

DATE OF ORIGINAL SAR: 12/01/00

DATE OF SAR REVISION: 03/15/09

REGULATORY STATUS: SWMU

LOCATION: Northeast corner of the C-310-A process building

APPROXIMATE DIMENSION OR CAPACITY: 72 ft²

FUNCTION: Temporary storage of materials

BRIEF HISTORY: The Twelliot UF₆ withdrawal pumps were installed after C-310 burned in 1956. They were used to withdraw UF₆ from the enrichment cascade and transfer it to the condensers from which it was delivered to product cylinders. They were used until the early 1980s when they were replaced by a Normetex pumps. They served as back-up withdrawal pumps until around 1990 and were tagged out of service in 1996. These pumps were released as U.S. Department of Energy (DOE) Material Storage Areas (DMSAs) on December 31, 1996. From August 2002 to July 2004, 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 October 22, 2004, to the Kentucky Division of Waste Management (KDWM). KDWM approved the FI/CR on July 28, 2005. Resource Conservation and Recovery Act closure was not required for this SWMU, since no hazardous wastes were stored in this unit, per the 2003 Agreed Order.

PRESENT OPERATIONAL STATUS: Inactive

DATES OPERATED: Late 1950s--approximately 1990

SITE/PROCESS DESCRIPTION: An inside DOE storage area located in the northeast corner of the C-310-A process building.

WASTE DESCRIPTION: Four Twelliot pumps. A detailed description of the characterized waste can be found in the FI/CR.

WASTE QUANTITY: Currently 0 ft³

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

DESCRIPTION OF RELEASE AND MEDIA AFFECTED: These pumps operated above atmospheric pressure and had no UF₆ leaks to atmosphere.

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: There is no evidence that this SWMU impacts or is being impacted by other SWMUs.

PRG COMPARISON: N/A

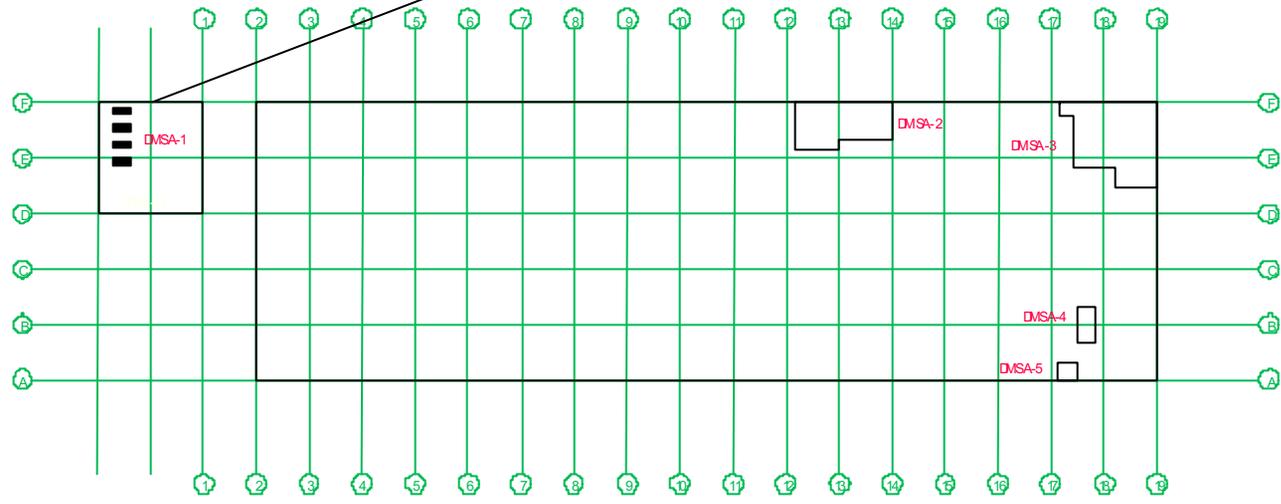
RFI NECESSARY: No. The SWMU is inside an operational process building with a concrete floor. This unit is being proposed for no further action since it no longer is active, has no evidence of releases to the environment, and is not believed to pose a risk to human health or the environment. The Twelliot UF₆ withdrawal pumps and contents were characterized and remain in-place in the DMSA to be addressed as part of the decontamination and decommissioning of the gaseous diffusion plant.

OPERABLE UNIT ASSIGNMENT: N/A

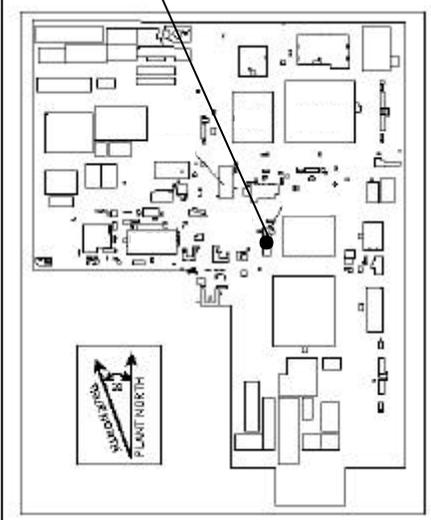


SWMU 230
DMSA-310-01
View looking East at the Four Pumps
July 2, 2004

SWMU 230



SWMU 230



Paducah Gaseous Diffusion Plant

LEGEND

 OFFICIAL DOE DMSAs PER 12/31/96

 AGREEMENT BETWEEN DOE AND USEC



C-310A - SWMU 230

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



Figure No. C-310A-01-230
Date 05-27-08