

**PRELIMINARY ASSESSMENT/SITE INSPECTION REPORT
AND SWMU ASSESSMENT REPORT**

UNIT NUMBER: 509

UNIT NAME: C-410/420 Complex – Drain Pit

DATE: 12/20/01

REGULATORY STATUS: Solid Waste Management Unit (SWMU)

LOCATION: Drain pit located in the C-410/420 Complex at column V&Va-1&2

APPROXIMATE DIMENSION: 1 ft x 1 ft x 1.16 ft.

FUNCTION: Drain pit served as a moisture collection system for the rectifier room, located in the northeast area of the C-410 Building.

BRIEF HISTORY: The rectifier room housed rectifiers, which provided DC power to the fluorine cells in the Zone 62 cell room. Floor drain serviced the rectifier room, facilitating moisture removal. Liquid would be primarily from rectifier recirculating cooling water system. Rectifiers were equipped with self-contained cooling systems to maintain proper operating temperatures. Cooling systems, believed to be of the shell-and-tube variety, required periodic servicing. Floor drains provided means to channel any accumulated water from area, away from equipment. No drainage system is illustrated on building blue prints. Discharge destination is unknown.

OPERATIONAL STATUS: Inactive

DATES OPERATED: July 1953 to July 1964 and July 1968 to May 1977

SITE/PROCESS DESCRIPTION: Drainage point for liquid in the rectifier room, primarily those produced from the recirculating cooling water systems associated with the rectifiers. It was not possible to determine whether the drains have been plugged from visual observations.

WASTE DESCRIPTION: Waste consisted of liquid entering the rectifier room. Due to the nature of the process in the room, it is likely the liquid was water from the rectifier cooling systems.

WASTE QUANTITY: NA (could not visually determine whether drain systems are empty)

SUMMARY OF ENVIRONMENTAL SAMPLING DATA: NA

DESCRIPTION OF RELEASE AND MEDIA AFFECTED: No releases from this SWMU have been documented.

GROUNDWATER: There are no known groundwater impacts from this SWMU.

SURFACE WATER: There are no known surface water impacts from this SWMU.

SOIL: There is no known impact on surface soils from this SWMU.

ECOLOGY AFFECTED (i.e., threatened/endangered species): No known impacts. No federal or state listed T&E plant or animal species have been identified. The federally endangered Indiana bat (*Myotis sodalis*) potentially occurs in the vicinity, but the C-410 complex does not provide a suitable habitat.

DOCUMENTATION OF NO RELEASE: NA

IMPACT ON OR BY OTHER SWMU/AOC: The following SWMUs are in the vicinity of the C-410/420 complex:

SWMU 11	SWMU 19	SWMU 20	SWMU 26
SWMU 40	SWMU 41	SWMU 47	SWMU 78
SWMU 169	SWMU 198	SWMU 203	

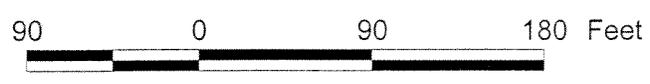
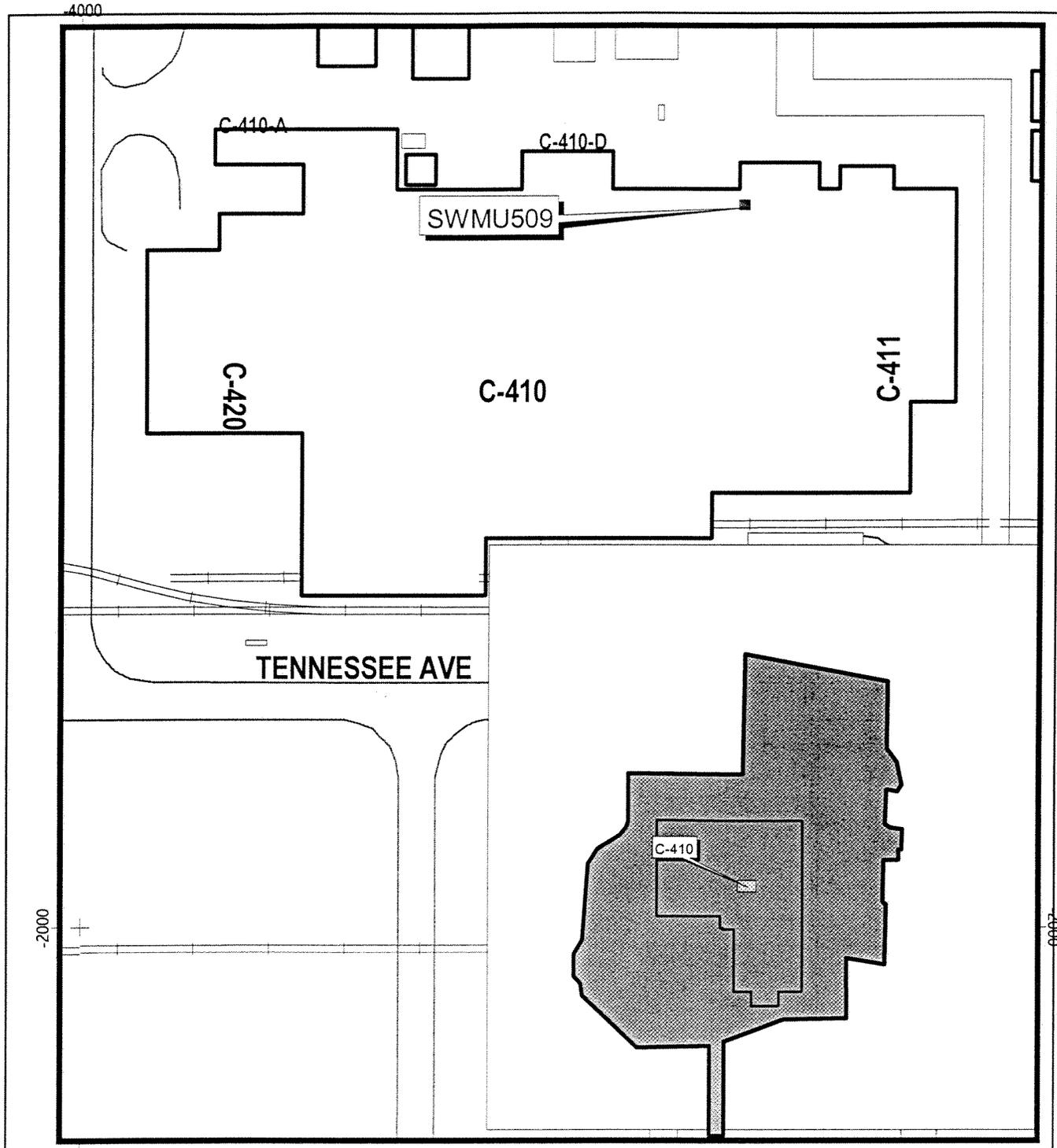
PRG COMPARISON: NA

RFI NECESSARY: This area is associated with an inactive facility that is included in the decontamination and decommissioning (D&D) program. Site evaluation work is underway at this time, along with planning associated with the infrastructure D&D phase. The need for a Remedial Investigation/Feasibility Study will be evaluated as part of the facility structure D&D phase.

NOTE: Elements included in this outline shall be considered and incorporated, as appropriate, when developing the above referenced document.



SWMU 509



U.S. DEPARTMENT OF ENERGY
DOE OAK RIDGE OPERATIONS
PADUCAH GASEOUS DIFFUSION PLANT

BECHTEL JACOBS BECHTEL JACOBS COMPANY LLC
MANAGED FOR THE U.S. DEPARTMENT OF ENERGY UNDER
U.S. GOVERNMENT CONTRACT DE-AC-05-86OR22700
Oak Ridge, Tennessee • Paducah, Kentucky • Portsmouth, Ohio

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SWMU 509 at C410.

FIGURE No. c5ac90001sk235.apr
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