

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

UNIT NUMBER: 480

UNIT NAME: C-402 Lime House

DATE: 6/15/01

REGULATORY STATUS: SWMU

LOCATION: C-402 is located northeast of C-400.

APPROXIMATE DIMENSION: 1,742 sq. ft.

FUNCTION: The facility was used to neutralize acids, produce magnesium fluoride pellets, and later as a storage facility per the Safety Analysis Report KY/EM-257. The C-402 Lime House is a 1742 ft² (162 m²), reinforced concrete building with a ground floor and partial basement. The facility was used to supply lime slurry to the C-403 Neutralization Pit. The building also housed pelletizing units and associated vents systems and was used for drummed chemical storage.

BRIEF HISTORY: According to BJC personnel formerly employed by USEC, the C-402 Lime House was used for neutralization of acids used in the C-400 processes, production of magnesium fluoride pellets, then as a storage facility. Hoppers and pumps were used to transfer the lime for neutralization. According to the Paducah Phase II Facility Assessment Report, in 1998 USEC used a portion of this facility to store janitorial supplies.

OPERATIONAL STATUS: Inactive

DATES OPERATED: According to BJC and subcontractor personnel who were formerly employed at USEC, C-402 began operating in the

1950's. The date of last operations is unknown but is believed to be before 1974.

SITE/PROCESS DESCRIPTION:

According to the Paducah Phase II Facility Assessment, the C-402 Limehouse was used to neutralize acids used in the processes of the C-400 facility. According to a BJC subcontractor personnel formerly employed by USEC and its previous contractors, operations occurring within the facility were batch operations, not continuous. The facility is currently a non-occupied facility with a clean area and a contamination area.

WASTE DESCRIPTION:

According to personnel formerly employed by USEC, wastes in the facility consist of 55 gallon (12-14) drums containing ACM and fiberglass (40 LF asbestos), hopper, and pumps. According to a former Union Carbide employee, hand trucks may currently be stored in this facility. Equipment used in the lime addition process has been abandoned in place (in the contamination area).

WASTE QUANTITY:

Unknown – no information available

SUMMARY OF ENVIRONMENTAL SAMPLING DATA:

Data from locations sampled near C-402 were downloaded from Paducah OREIS. Metals, SVOCs and radionuclides were present at detectable levels in the soils in the vicinity of the C-402 facility. A small area of surface soil between the C-402 building and the C-400 building was found to be impacted with moderate concentrations of several common PAH compounds. See the WAG 6 RI Report for documentation.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED:

According to personnel formerly employed by USEC, there are no known releases associated with this SWMU. According to BJC subcontractor personnel formerly employed by USEC and its previous contractors, no releases were known, but were possible due to the liquid processes and associated piping in the facility.

GROUNDWATER:

NA

SURFACE WATER:

NA

SOIL: NA

**ECOLOGY AFFECTED
(i.e., endangered/threatened species):** None affected

DOCUMENTATION OF NO RELEASE: No documentation

**IMPACT ON OR BY OTHER
SWMU/AOC:** The following are some of the SWMU's that are in the locale of this facility: 40, 51, 52, 98, and 203.

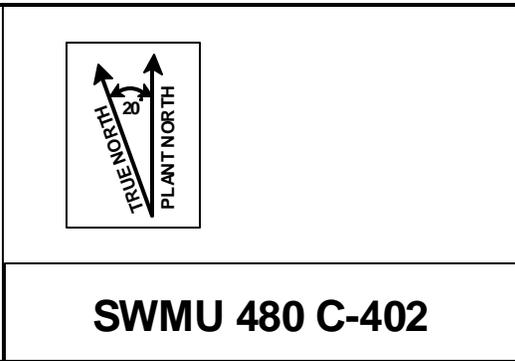
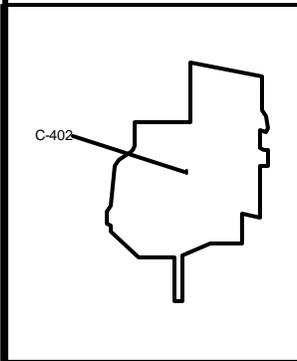
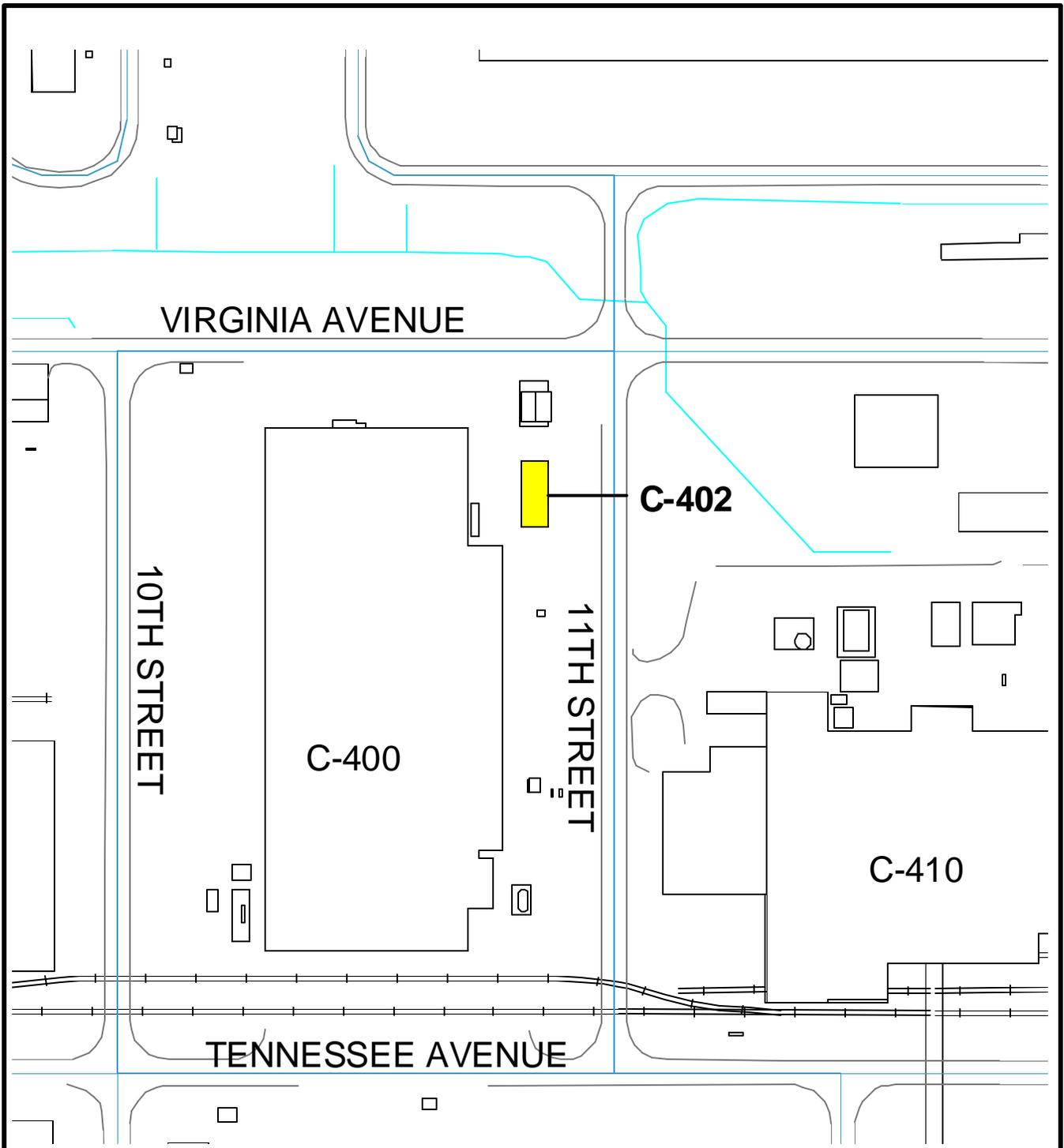
PRG COMPARISON: NA

RFI NECESSARY: Yes

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



SWMU 480 C-402 # 1



100 0 100 Feet

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

BECHTEL **JACOBS** **BECHTEL JACOBS COMPANY, LLC**
managed for the DEPARTMENT OF ENERGY under
U.S. GOVERNMENT contract DE-AC-05-98OR227000
Oak Ridge, Tennessee Paducah, Kentucky Portsmouth, Ohio

CDM Federal Services Inc
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FIGURE No. SWMU 480 C-402
DATE 06/22/01