

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

UNIT NUMBER: 484

UNIT NAME: C-611-M Storage Tank

DATE: 6/15/01

REGULATORY STATUS: SWMU

LOCATION: C-611-M is located west of Rice Springs Road and north of C-611-N in the Kentucky Ordinance Works area.

APPROXIMATE DIMENSION: The total capacity of the tank and associated piping is 500,000 gallons. The overall dimensions of the silo consist of the following: 173 ft. in height, 46 ft. in diameter and 12 in. thick walls. A concrete water tank is incorporated inside and on top of the structure with the following dimension: 2 ft. floor, 44 ft. diameter and 23 ft. 6 in. depth.

FUNCTION: Sanitary water storage. According to USEC personnel, process water was pumped from the C-611 water treatment facility to the towers. The water was used at the plant for potable water.

BRIEF HISTORY: Based upon information provided by USEC personnel, the tanks were used for potable water storage for plant operations. Water was pumped from the C-611 water treatment facility to the towers. Per BJC personnel, the Criticality Alarm System Inspector's Survey for the C-611-M Water Storage Tank stated that the facility was constructed in 1942. There has been no maintenance performed on the silos since 1985. The silos were drained and taken out of service in 1990. During radiological surveys conducted in November 1996 by the previous DOE contractor, radioactive contaminated material was identified at the C-611-M site. According to personnel employed by the previous DOE contractor, the following items were identified with fixed contamination by Health

Physics and relocated inside the plant: Mixer C-12143, mixer AS-1-15D-A-A, 8 inch diameter steel pipe approximately 6 feet, trash can lid, gears, spare parts, and 4 inch diameter steel pipe approximately 6 feet. Per BJC personnel, there is nothing currently stored in this facility and there are no future plans for this facility to be used for any type of storage.

OPERATIONAL STATUS:

Inactive

DATES OPERATED:

According to USEC personnel, the water towers were operated from 1942 to 1990.

SITE/PROCESS DESCRIPTION:

According to personnel employed by the previous DOE contractor and USEC personnel, it was used to store sanitary water.

WASTE DESCRIPTION:

According to personnel formerly employed by previous DOE contractor, the facility itself is made of concrete and has a pump and the entire structure is considered waste. Per BJC personnel, the Criticality Alarm System Inspector's Survey Summary stated that the tower is in a failed condition. It is assumed that the tank at the top of the facility contains an unknown amount of rainwater.

WASTE QUANTITY:

Approximately 460 yd³ of building materials.

SUMMARY OF ENVIRONMENTAL SAMPLING DATA:

In January 2000 radiological surveys of this area and materials were performed. Results of this survey indicate no radiological contamination is present.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED:

According to personnel employed by the previous DOE contractor and USEC personnel, no releases or spills have occurred.

GROUNDWATER:

NA

SURFACE WATER:

NA

SOIL: NA

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

DOCUMENTATION OF NO RELEASE: According to personnel employed by the previous DOE contractor and USEC personnel, no releases or spills have occurred.

**IMPACT ON OR BY OTHER
SWMU/AOC:** The following are some of the SWMUs that are in the locale of this facility: 123, 124, 180, and 485.

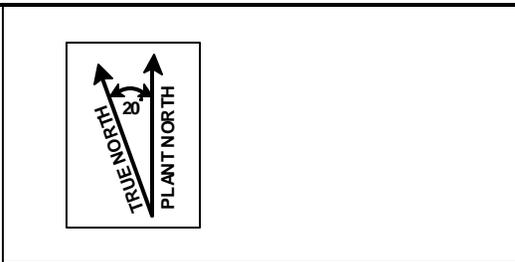
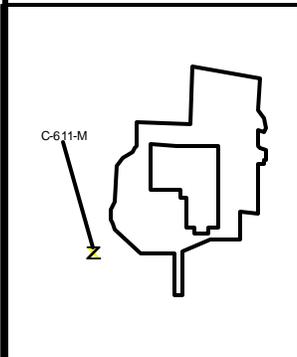
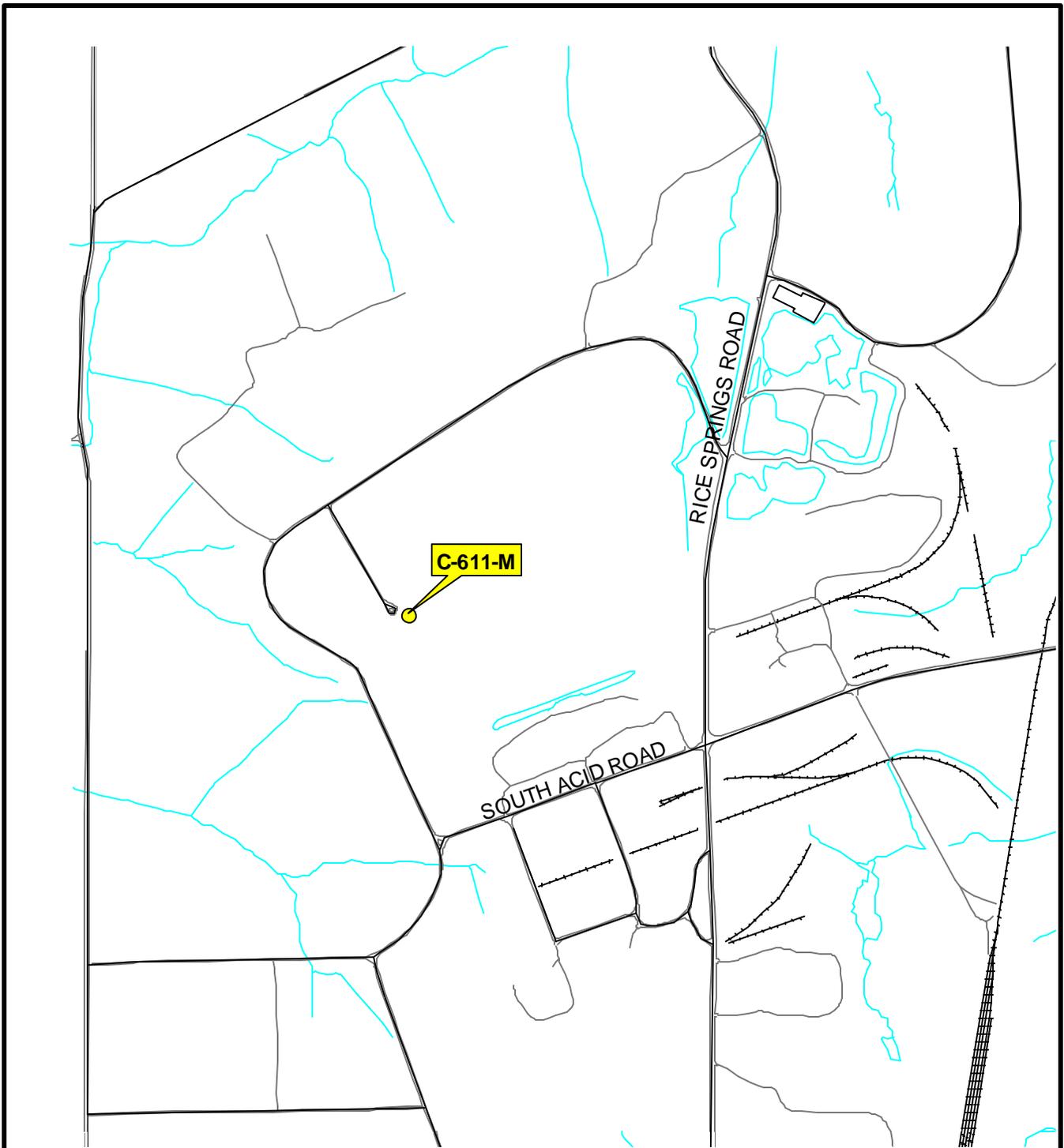
PRG COMPARISON: NA

RFI NECESSARY: No. There is no evidence of leaks or spills in this area. The building materials themselves do not pose a threat to human health and the environment. Past operations were sanitary water storage. Radiological surveys indicate the area is not radiologically contaminated.

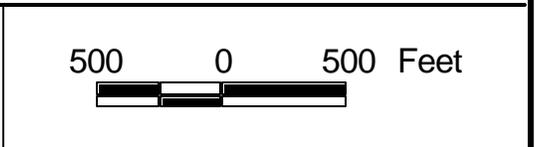
NOTE: Elements included in this outline shall be considered and incorporated, as appropriate, when developing the above referenced document.



SWMU 484 C-611-M



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

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

CDM Federal Services Inc
A subsidiary of CDM Federal Services, Inc.

FIGURE No. SWMU 484 C-611-M
 DATE 06/22/01