

K-1066-B UF₆ Cylinder Storage Yard

The K-1066-B cylinder storage yard is located in the north portion of the East Tennessee Technology Park, east of the K-25 Building. The cylinder yard is bounded on the west by an access road and a security fence. The north, south, and east sides are bound by grassy areas and are not fenced at the perimeter of the yard. There is a gate of sufficient width in the security fence at the southwest corner of the yard to provide adequate access of cylinder handling equipment. The yard is posted as a Fixed Contamination Area, and TLD's are required. K-1066-B Yard is a Nuclear Facility, Category 2. Postings designate the yard location, entry and notification requirements, storage and stacking requirements, and warn of the presence of PCBs on particular cylinders. This storage yard is considered adequate. It is constructed concrete situated on top of a classified burial ground and is believed to have been constructed in the late 1970s. Plans for re-industrialization include opening part of the ETTP site to unlimited access to the public, which necessitates fencing of the burial ground and B-yard and surrounding areas for security reasons. The access/exit requirements for B yard are:

1. Requires that a photo badged Q-cleared individual check out the key from the command Center, K-1652, for entry and return upon exiting. The key is then returned to the Command Center.
2. L-Cleared persons escorted by a Q-cleared person for the Cylinder yard areas is permissible and authorized. Uncleared persons must be cleared through the Visitor Control with an escort agreement approved by security, and escorted by a Q-cleared person. At no time will the area remain unattended when entry is made.

The total paved area is approximately 1.16 acres (50,600 ft²) with a capacity of approximately 700 48-inch cylinders double stacked. The cylinder rows are laid out from west to east with 4 feet aisle spacing and 60 inches center-to-center stacking configuration.

Presently, 440 48-inch diameter empty, heel, and partially full quantity NU and LEU cylinders are segregated and triple-stacked where possible on the southern portion for space consolidation. There are 110 48-inch diameter full DU cylinders double stacked on the north portion that were placed in the yard in FY 2000. All cylinders are properly stacked using concrete saddles (402). Cylinder movements to complete loading this yard are planned in FY 2001.

The yard, with a median elevation of 778 ft ASL, is relatively level, sloped only to drain to two storm sewer catch basins located in the north to south centerline of the yard. Storm water runoff drains through the catch basins and connecting storm sewer to an outfall on the Mitchell Branch of Poplar Creek to the north and northeast. Poplar Creek proper is located beyond Mitchell Branch, ~1370 ft to the north. Entry to the yard is from a lighted site access road along the west side of the yard. The closest point to the ORR boundary is ~8000 ft to the north.



Aerial and elevation views taken from the north side of K-1066-B Yard.