

X-745C Expansion Storage Yard

The X-745C expansion cylinder storage yard is currently under construction and will be completed December 1999 (see Fig. 5). It is being constructed specifically for the 2,639 depleted uranium cylinders transferred to DOE from USEC under a memorandum of agreement in which DOE took custody of all DUF_6 generated before USEC privatization. These cylinders are currently located on a USEC-leased cylinder storage yard (X-745G).



Figure 5. X-745C expansion under construction.

This expansion storage yard is located to the West of the X-530A switch yard and immediately South of the existing X-745C cylinder storage yard, Section 1. It is inside the limited area fence (controlled access area –NRC terminology). There will be open access to this storage yard from inside the limited area. This yard will be a non-leased facility.

It will be posted as a radioactive controlled area, radioactive material, PNAD required for access, as well as hazardous communications signs for uranium hexafluoride. This facility will be a Category 2 nuclear facility by PAAA requirements.

The storage yard will be constructed of non-reinforced concrete 11 inches thick. There will be two distinct sections connected on their northern edge with concrete wide enough to allow a cylinder stacker to traverse easily between the two sections. The smaller section will be 54,015 square feet located to the East side of the construction area and the larger section will be 105,365 square feet located to the West side of the construction area. The splitting of the concrete pad was necessary because of a 50' wide right-of-way for the high-tension power lines over this area. The combined area of this yards two sections will have the capacity to hold 3,000 model 48G cylinders, double stacked with a 4' isle between rows and each cylinder spaced 60" center-to-center.

The cylinders stacked on this yard will be full-depleted uranium cylinders. The storage pad areas are bounded by 19th Street to the north, perimeter fence patrol road to the west, the site west drainage ditch to the south and Washington Avenue to the east. The main entrance to the yard will be off of Washington Avenue at the smaller pads northeast corner.

Lighting fixture poles will be placed around the periphery of both sections of this yard in accordance with design drawings. Fire plugs are located at the smaller pads southeastern and northeastern corners next to Washington Avenue.

An area of surface water run-off sampling will be chosen at a location near the West drainage ditch (Fig. 6) when the yard is completed.



Figure 6. Southern edge of X-745C showing drainage ditch.