



July 18, 2005
AET 05-0059

Mr. Jack R. Strosnider
Director, Office of Nuclear Material Safety and Safeguards
Attention: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

**American Centrifuge Plant
Docket Number 70-7004
Submittal of Additional Information Regarding the Environmental Report for the American
Centrifuge Plant (TAC No. L32308)**

Dear Mr. Strosnider:

Pursuant to your request, USEC Inc. (USEC) hereby submits to the U.S. Nuclear Regulatory Commission (NRC) additional information related to the Requests for Additional Information regarding the Environmental Report for the American Centrifuge Plant. The additional information is provided in Enclosure 1.

If there are any questions regarding this matter, please contact, Mr. Peter J. Miner, at (301) 564-3470.

Sincerely,

Steven A. Toelle
Director, Nuclear Regulatory Affairs

cc: M. Blevins, NRC HQ
J. Davis, NRC HQ
Y. Faraz, NRC HQ
B. Smith, NRC HQ

Enclosures: As Stated

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Enclosure 1 to AET 05-0059

**Additional Information Regarding the Environmental Report
for the American Centrifuge Plant**

1. What are the differences between the cost estimates in Tables C-1 and C-2 in Appendix C and in Chapter 4 of the Environmental Report?

USEC Response

Table C-1 of the Environmental Report presents the original cost estimates used to compare the Paducah, Kentucky and Piketon, Ohio sites during the site selection process for the Commercial Centrifuge Project.

Table C-2 of the Environmental Report presents a later and more refined cost estimate for the selected site (Piketon, Ohio).

Both tables present complete costs for a 3.5 million (M) Separative Work Unit (SWU) plant (i.e., two-process building scenario).

The Environmental Report analyzes the impacts of an annual capacity of a 7 M SWU plant (i.e., four-process building scenario) to facilitate licensing should USEC choose to expand the 3.5 M SWU plant. The cost estimates provided in Chapter 4.0 are scaled up from the values provided in Table C-2 to account for the 7 M SWU plant. Chapter 4.0 analyzed four phases to support the socioeconomic analyses which included: 1) Refurbishment and Construction; 2) Operations; 3) Manufacturing; and 4) Decommissioning and Decontamination. The following table depicts the relation between Table C-2 and Chapter 4.0 estimates (shown in \$ million).

Project Phases	Table C-2 – 3.5 M SWU	Chapter 4.0 – 7 M SWU
Refurbishment and Construction	\$610.3 M	\$1,449 M between 2006 and 2010
Manufacturing	\$736.5 M	\$1,423 M between 2004 and 2013
Total	\$1,346.8 M	\$2,873 M

2. What are the exact location/boundaries of the future X-745H Cylinder Yard (will it involve removal of riparian forest/wetland or work down the slopes toward the creek)?

USEC Response

The X-745H Cylinder Storage Yard is to be located on a relatively flat grassland bounded on the south by the Perimeter Road; on the east by an unnamed tributary to Little Beaver Creek (adjacent to the North Access Road); on the west by the eastern drainage channel to and the discharge from the X-230L North Holding Pond; and on the north by the valley of Little Beaver Creek itself. The proposed Cylinder Storage Yard is currently an upland, open grassland area, at approximately 660 feet (ft) above mean sea level (asml) at its southern end dipping to 640 ft asml at the northern elevation. This area is adjacent to riparian forest/wetland areas and the valley slopes of the Little Beaver Creek and its tributaries. The proposed yard has been conceptually designed to avoid the areas discussed above.

A map showing existing topographic contours and the layout of the storage yards in the immediate area of the proposed X-745H yard is also being provided as an enclosure to this submittal.

**THIS PAGE IS AN
OVERSIZED DRAWING OR
FIGURE,
THAT CAN BE VIEWED AT THE
RECORD TITLED:
“TOPOGRAPHIC CONTOURS
SURROUNDING THE PROPOSED
X-745H CYLINDER STORAGE YARD”**

WITHIN THIS PACKAGE

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