



*Designated
Original*

July 30, 2008
AET 08-0052

Mr. Michael F. Weber
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; License Number SNM-2011**

**Submittal of Information Concerning Radiological Characterization Results for the
American Centrifuge Plant**

Dear Mr. Weber:

USEC Inc. (USEC) previously provided a status regarding radiological characterization survey results for the X-7725 Recycle/Assembly Facility and the X-7726 Centrifuge Training and Test Facility for the American Centrifuge Plant (ACP) in Reference 1. In this letter, USEC noted that several areas with contamination were present in the facility. Accordingly, USEC initiated a project to remediate the Fixed Contamination Areas and remove contaminated Gas Centrifuge Enrichment Plant (GCEP) equipment. References 2 and 3 documented remediation of the areas within the X-7725 and X-7726 facilities.

Areas 8 and 9 depicted in the maps attached to Reference 1 contained piping and components associated with GCEP that were internally contaminated. The U.S. Department of Energy (DOE) documentation indicated that a maximum of 28 grams of uranium was held up in the installed piping and components.

USEC initiated a project to remove the contaminated piping and components from Areas 8 and 9. The piping and components were free of external contamination; however varying levels of uranium contamination was confirmed on internal surfaces. The maximum removable contamination sample indicated 12,300 disintegration per minute (dpm) alpha and 10,500 dpm beta. Contaminated piping, components, and debris generated during the project have been containerized and are waiting final disposal.

A final radiological survey of Areas 8 and 9 was performed. The survey confirmed that the contamination was contained and not released during the project and the results are less than the

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Free Release criteria stated in Section 4.8.2.4 of the license application for the ACP. The boundaries designating the DOE regulated area have been removed; however, the X-7726 facility remains posted as a Radioactive Materials Area due to ongoing Lead Cascade activities within the facility.

Area 6 depicted in the maps attached to Reference 1 is the only area within the X-7725 facility that remains under DOE regulatory oversight. Area 6 is currently being used to store contaminated items from the remediated areas. Notification to the NRC will be made upon completion of the project to dispose of the contaminated items and to remediate any remaining contamination within this area.

This submittal is being provided for information purposes only and no action is requested. If you have any questions regarding this matter, please contact me at (301) 564-3470.

Sincerely,



Peter J. Miner
Director, Regulatory and Quality Assurance

cc: R. DeVault, DOE-ORO
S. Echols, NRC HQ
M. Heiskell, DOE-ORO
J. Henson, NRC Region II
J.T. Howell, DOE-ORO
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References

1. USEC letter AET 07-0050 from P.J. Miner to M.F. Weber regarding Submittal of Information Concerning Radiological Characterization Results for the American Centrifuge Plant – USEC Proprietary Information and Export Controlled Information, dated August 2, 2007
2. USEC letter AET 07-0068 from P.J. Miner to M.F. Weber regarding Submittal of Information Concerning Radiological Characterization Results for the American Centrifuge Plant, dated October 26, 2007
3. USEC letter AET 07-0079 from P.J. Miner to M.F. Weber regarding Submittal of Information Concerning Radiological Characterization Results for the American Centrifuge Plant, dated December 4, 2007