



October 26, 2007
AET 07-0071

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. hereby submits to the U.S. Nuclear Regulatory Commission staff, supplemental information relating to radiological characterization results for a portion of the X-7725 Recycle/Assembly Facility previously discussed in Reference 1.

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

Enclosures: As Stated

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

References:

1. USEC letter AET 07-0050 to M.F. Weber (NRC) from P.J. Miner (USEC) 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 07-0023 to M.F. Weber (NRC) from P.J. Miner (USEC) regarding Submittal of Information Concerning Radiological Characterization Results for the American Centrifuge Plant, dated April 20, 2007.

Enclosure 1 of AET 07-0071

Radiological Characterization Results for the American Centrifuge Plant

Enclosure 1 of AET 07-0071

Area 1 (as depicted in Enclosure 2 of Reference 1 [designated as USEC Proprietary Information and Export Controlled Information]) located on the first floor of the X-7725 Recycle/Assembly Facility was identified as "DOE Retained." Subsequent to submission of Reference 1, it was decided that Area 1 would be leased and turned over to USEC Inc. (USEC). Reference 1 indicated potential radiological protection issues in this area based upon USEC's criteria (defined in Reference 2). Additional American Centrifuge surveys of Area 1 were performed and the following summarizes the results of this re-assessment.

Area 1 contains a Californium Shuffler that will be removed. The Californium (^{252}Cf) source was previously removed from the Shuffler and the majority of the associated equipment has been removed from the room. However, a thorough survey of the Shuffler has not been performed due to its construction; therefore, this area will be retained under DOE regulatory oversight, until the Shuffler has been removed. The area is posted as a Radioactive Materials Area due to the incomplete survey of the Shuffler and remaining items. General area radiation levels in Area 1 are at or below background (6-10 $\mu\text{Roentgen/hour}$) and removable contamination levels in Area 1 are less than the Free Release criteria stated in Section 4.8.2.4 of the License Application for the American Centrifuge Plant.

**Does not contain
Export Controlled Information**

**Reviewer: R. L. Coriell
Date: October 26, 2007**