



April 20, 2006  
AET 06-0054

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 Supporting Document for the American Centrifuge Plant (TAC Nos. L32306, L32307, and L32308) – Export Controlled Information**

**INFORMATION TRANSMITTED HERewith IS PROTECTED FROM  
DISCLOSURE PURSUANT TO 10 CFR PART 810**

Dear Mr. Strosnider:

Pursuant to a request from the U.S. Nuclear Regulatory Commission (NRC) staff on April 19, 2006, USEC Inc. hereby submits a supporting document K/ETO-95, entitled *The HF/UF<sub>6</sub> Phase Equilibria and the Selection of Operating Conditions for UF<sub>6</sub> Withdrawal and Storage Systems in Low-Enrichment Gaseous Diffusion Cascades*, dated March 1993 as Enclosure 1 of this letter. This document supports the basis for the UF<sub>6</sub>/HF phase discussion associated with Criticality Safety for the American Centrifuge Plant.

Enclosure 1 has been determined, in accordance with the guidance provided by the U.S. Department of Energy (DOE), to contain Export Controlled Information. This information must be protected from disclosure per the requirements of 10 CFR Part 810.

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

Sincerely,

Steven A. Toelle  
Director, Regulatory Affairs

cc: S. Echols, NRC HQ  
N. Garcia-Santos, NRC HQ  
B. Smith, NRC HQ  
C. Tripp, NRC HQ

Enclosure: As Stated