



March 07, 2012  
AET 12-0023

ATTN: Document Control Desk  
Mr. Barry Westreich, Acting Director  
Division of Security Policy  
Office of Nuclear Security and Incident Response  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

**American Centrifuge Lead Cascade Facility  
Docket Number 70-7003; License Number SNM-7003  
Description of Change to the Fundamental Nuclear Material Control Plan for the American  
Centrifuge Lead Cascade Facility**

Dear Mr. Westreich:

**Purpose**

In accordance with 10 *Code of Federal Regulations* (CFR) 70.32(c)(2)(ii), USEC Inc. (USEC) hereby submits to the U.S. Nuclear Regulatory Commission (NRC) a description of change to the Fundamental Nuclear Material Control Plan (FNMCP) for the American Centrifuge Lead Cascade Facility as Enclosure 1 of this letter.

**Discussion**

The changes noted in Enclosure 1 have been reviewed in accordance with 10 CFR 70.32 and have been determined not to decrease the effectiveness of the FNMCP.

**Action**

No specific action is requested concerning this submittal.

NSIROZ  
NMSS01

Mr. Barry Westreich  
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**Contact**

If you have any questions regarding this matter, please contact me at (301) 564-3470 or Terry Sensue at (740) 897-2412.

Sincerely,

A handwritten signature in black ink, appearing to read "Peter J. Miner". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Peter J. Miner  
Director, Regulatory and Quality Assurance

Enclosure: As Stated

cc: J. Calle, NRC Region II  
J. Downs, NRC HQ  
D. Hartland, NRC Region II  
O. Siurano, NRC HQ  
B. Smith, NRC HQ

**Enclosure 1 to AET 12-0023**  
**Description of Change to the Fundamental Nuclear Material Control Plan**  
**for the American Centrifuge Lead Cascade Facility**

**Information contained within  
does not contain  
Export Controlled Information**

**Reviewer: R.S. Lykowski**  
**Date: 3/6/2012**

**Enclosure 1 to AET 12-0023**

**Description of Change to the Fundamental Nuclear Material Control Plan  
for the American Centrifuge Lead Cascade Facility**

FCE/PCE NO.	Rev.	Description/Reason for the Change	Approval Date	Change to SSC?	Documents Modified Due to Change	ISA Summary Update Required	Reason NRC Preapproval Not Required/Comments
FCE 11-0148 PCE – N/A	0	<p><b>Title:</b> Changes to the Lead Cascade Facility License Application and Supporting Documents Due to the Transition of United States Enrichment Corporation Supplied Services to a Department of Energy Contractor</p> <p><b>Description of Change:</b> License Application and Supporting Documents are being changed to reflect the Transition of United States Enrichment Corporation supplied services to a Department of Energy contractor.</p> <p><b>Reason for the Change:</b> USEC Government Services is in the process of transferring the remaining leased facilities at Portsmouth Gaseous Diffusion Plant to the Department of Energy in accordance with the Lease Agreement between United States Enrichment Corporation and Department of Energy for decontamination and decommissioning.</p>	09/07/2011	No	LCF License Application Table of Contents; Acronyms; Executive Summary; Sections 1.0, 1.1, 1.2, 1.3, 2.0, 2.1, 2.2, 2.4, Table 2.1-1, 4.0, 4.3, 4.7, 4.9, 5.0, 6.0, 6.2, 7.0, 7.1, 7.3, 7.5, 9.0, 9.2, 9.3, 9.4, Table 9.2-4, 10.0, 11.1, 11.3, and 11.7; Appendix B Figure 9.2-1; LCF Environmental Report Section 1.0, 2.0, 4.0, 6.0; LCF Supplement Environmental Report Section 3.0; LCF Integrated Safety Analysis Summary Table of Contents, Acronyms, Introduction, Sections 1.1, 1.2, 1.4, 2.1, 2.2, 3.0, 3.1, 3.5, 3.6, 6.1, 6.2, Appendix D and Appendix E; LCF Fundamental Nuclear Material Control Plan Acronyms, Sections 1.1, 3.1, 3.2, 3.4, 3.5, 4.0, 4.1, 5.2, 6.3, 9.0, 9.1, 9.2 and 11.0	Yes	None of the criteria listed in 10 CFR 70.72(c) are met.

**Enclosure 1 to AET 12-0023**

**Description of Change to the Fundamental Nuclear Material Control Plan  
for the American Centrifuge Lead Cascade Facility**

<b>FCE/PCE NO.</b>	<b>Rev.</b>	<b>Description/Reason for the Change</b>	<b>Approval Date</b>	<b>Change to SSC?</b>	<b>Documents Modified Due to Change</b>	<b>ISA Summary Update Required</b>	<b>Reason NRC Preapproval Not Required/Comments</b>
FCE 11-0305 PCE – N/A	0	<p><b>Title:</b> Revision to the Lead Cascade Facility Fundamental Nuclear Material Control Plan</p> <p><b>Description of Change:</b> Added actions to ensure non-destructive analysis measurements are verified during annual inventory.</p> <p><b>Reason for the Change:</b> This change was made in response to a Condition Notification, which identified a potential error in calculation when using NDA measurements and the need to add verification actions in the Fundamental Nuclear Material Control Plan.</p>	12/29/2011	No	LCF Fundamental Nuclear Material Control Plan Section 6.1	No	None of the criteria listed in 10 CFR 70.72(c) are met.