



December 10, 2015  
ACO 15-0038

ATTN: Document Control Desk

Ms. Melanie Galloway  
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**

**American Centrifuge Plant**  
**Docket Number 70-7004; License Number SNM-2011**

**Notification of Changes for the Fundamental Nuclear Material Control Plan for the American Centrifuge Lead Cascade Facility and American Centrifuge Plant – Unclassified Controlled Nuclear Information, Security-Related Information, Export Controlled Information, and Proprietary Information**

**INFORMATION TRANSMITTED HERewith IS PROTECTED FROM PUBLIC  
DISCLOSURE AS CONFIDENTIAL COMMERCIAL OR FINANCIAL INFORMATION  
AND/OR TRADE SECRETS PURSUANT TO 10 CFR 2.390 AND 9.17(a)(4)  
AND  
INFORMATION TRANSMITTED HERewith IS PROTECTED FROM  
DISCLOSURE PURSUANT TO 10 CFR PART 810**

Dear Ms. Galloway:

**Purpose**

In accordance with Section 1.3 of the Fundamental Nuclear Material Control Plan (FNMCP) for the American Centrifuge Plant (ACP), Section 1.2 of the FNMCP for the American Centrifuge Lead Cascade Facility (LCF), and 10 *Code of Federal Regulations* (CFR) 70.32(c)(2)(ii), American Centrifuge Operating, LLC (ACO) hereby submits to the U.S. Nuclear Regulatory Commission (NRC) a description of change to the FNMCP for the ACP and LCF as Enclosure 1 of this letter and changed pages for the FNMCP for the ACP Enclosure 2 of this letter.

Document/matter transmitted contains ~~Unclassified Controlled Nuclear Information~~  
~~Security-Related Information - Withhold Under 10 CFR 2.390~~  
~~Export Controlled Information and Proprietary Information~~

When separated from Enclosure 2, this cover letter and Enclosure 1 are uncontrolled and does not contain UCNI. \*

American Centrifuge Operating, LLC  
3930 U.S. Route 23 South – P.O. Box 628  
Piketon, OH 45661

ECI will not be added to ADAMS

MSI08  
NM501

~~Unclassified Controlled Nuclear Information~~  
~~Security-Related Information Withhold Under 10 CFR 2.390~~  
~~Export Controlled Information and Proprietary Information~~

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**Discussion**

The changes noted in Enclosures 1 and 2 have been reviewed in accordance with 10 CFR 70.32 and have been determined not to decrease the effectiveness of the FNMCP.

Enclosure 2 contains Security-Related Information and Proprietary Information; therefore, ACO requests this enclosure be withheld from public disclosure pursuant to 10 CFR 2.390(d)(1). Enclosure 2 has been determined, in accordance with the guidance provided by the DOE, to contain Export Controlled Information. This information must be protected from disclosure per the requirements of 10 CFR Part 810. Additionally, Enclosure 2 has been determined to contain Unclassified Controlled Nuclear Information and must be protected from disclosure per the requirements of 10 CFR Part 1017. Unauthorized dissemination is subject to civil and criminal sanctions under Section 148 of the *Atomic Energy Act of 1954 as amended* (42 U.S.C. 2168).

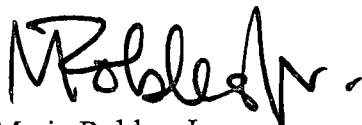
**Action**

This letter satisfies FNMCP reporting requirements. No specific action is requested concerning this submittal.

**Contact**

If you have any questions regarding this matter, please contact me at (740) 897-3285.

Sincerely,



Mario Robles, Jr.  
Regulatory Manager

Enclosures: As Stated

cc: J.R. Downs, NRC HQ  
T.A. Grice, NRC HQ  
L.W. Pitts, NRC Region II  
O. Siurano-Perez, NRC HQ  
M.D. Sykes, NRC Region II  
T.A. Vukovinsky, Region II

Document/matter transmitted contains  
~~Unclassified Controlled Nuclear Information~~  
~~Security-Related Information Withhold Under 10 CFR 2.390~~  
~~Export Controlled Information and Proprietary Information~~

When separated from Enclosure 2, the cover letter and Enclosure 1 is uncontrolled and does not contain UCNI.

**Enclosure 1 to ACO 15-0038**  
**Description of Change to the Fundamental Nuclear Material Control Plan**  
**for the American Centrifuge Plant and American Centrifuge Lead Cascade Facility**

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

**Reviewer: R.S. Lykowski**  
**Date: 12-9-15**

**Description of Change to the Fundamental Nuclear Material Control Plan  
for the American Centrifuge Plant and 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
FCE 15-0049 PCE 15-0031	0 0	<p><b>Title:</b> Revision to the ACP/LCF License Applications and Supporting Documents to Update Titles and Responsibilities and Other Editorial Changes</p> <p><b>Description of Change:</b> Changed logo on cover pages; deleted Vice President, Enrichment Operations and combined the description responsibilities with the Vice President, American Centrifuge; revised the reporting matrix for the Vice President, American Centrifuge to the Chief Executive Officer; revised title and responsibilities of Director, Nuclear Safety and Safeguards to Director, Regulatory Affairs; removed Information Technology as a responsibility for Plant Services Manager; removed multiple Oak Ridge titles and responsibilities from the License Application; and made other editorial changes.</p> <p><b>Reason for the Change:</b> Changes were made to the organizational structure to align to current operations.</p>	7/6/2015	No	ACP FNMCP Cover, Section 3.1  ACP/LCF License Application, Sections 2.0, 2.1, 4.2, 4.3, Figure 2.1-1; ACP/LCF Quality Assurance Plan Description Cover, Sections 1.2, 5.0, Figures 1.1-1 and 1.1-2; ACP/LCF Security Program Section 2.3; ACP Emergency Plan Cover, Section 4.1	No

FCE/PCE NO.	Rev.	Description/Reason for the Change	Approval Date	Change to SSC?	Documents Modified Due to Change	ISA Summary Update Required
FCE 15-0049 PCE 15-0031	1 1	<p><b>Title:</b> Revision to the ACP/LCF License Applications and Supporting Documents to Update Titles and Responsibilities and Other Editorial Changes</p> <p><b>Description of Change:</b> Included the proposed change of the Security Program Figure 2-13 that was inadvertently omitted; corrected header for the Fundamental Nuclear Material Control Plan; and corrected Question 2 on form AC-002, Decreased Effectiveness Evaluation.</p> <p><b>Reason for the Change:</b> To correct the change evaluation package.</p>	7/28/2015	No	<p>ACP FNMCP Cover, Section 3.1</p> <p>ACP/LCF License Application, Sections 2.0, 2.1, 4.2, 4.3, Figure 2.1-1; ACP/LCF Quality Assurance Plan Description Cover, Sections 1.2, 5.0, Figures 1.1-1 and 1.1-2; ACP/LCF Security Program Section 2.3 and Figure 2-13; ACP Emergency Plan Cover, Section 4.1</p>	No
FCE 15-0221 PCE 15-0107	0 0	<p><b>Title:</b> Revision to the ACP/LCF Fundamental Nuclear Material Control Plans, LCF Integrated Safety Analysis, LCF Integrated Safety Summary, and LCF Nuclear Criticality Safety Approval and Evaluation to Address Lead Cascade Holdup and Tracking of Possession Limits</p> <p><b>Description of Change:</b> Revised LCF Nuclear Criticality Safety Approval and Evaluation to address holdup issues; updated LCF Integrated Safety Analysis and Summary to align with what is stated in the LCF Nuclear Criticality Safety Approval and Evaluation; and revised ACP/LCF Fundamental Nuclear Material Control Plans to acknowledge the potential for holdup to occur in process equipment.</p> <p><b>Reason for the Change:</b> To improve the Lead Cascade inventory control program regarding issues associated with the potential accumulation of licensed material within the Lead Cascade material balance area.</p>	11/5/2015	No	<p>LCF FNMCP Section 6.5</p> <p>ACP FNMCP Section 8.3</p> <p>LCF Integrated Safety Analysis, LCF Integrated Safety Analysis Summary, LCF Integrated safety Analysis Summary [Redacted] Section 5.1; LCF Nuclear Criticality Safety Approval and Evaluation</p>	Yes