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June 28, 2017
ACO 17-0034

ATTN: Document Control Desk

Ms. Stephanie Coffin, Acting Director
Division of Preparedness and Response
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

Submittal of Changed Pages of the Emergency Plan for the American Centrifuge Lead Cascade Facility

Dear Ms. Coffin:

Purpose
In accordance with 10 *Code of Federal Regulations* (CFR) 70.32(i), American Centrifuge Operating, LLC hereby submits to the U.S. Nuclear Regulatory Commission (NRC) changed pages of the Emergency Plan 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 applicable plan. Revision bars in the right hand margin depict changes from the previous revision submitted to the NRC.

Contact
If you have any questions regarding this matter, please contact me at (740) 897-3859.

Sincerely,

Kelly L Wiehle

Kelly L. Wiehle
Regulatory Manager

NSIR09
AX45
NSIR

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

Enclosure: As Stated

cc (without enclosure, unless otherwise noted):
K. Everly, NRC HQ
Y. Faraz, NRC HQ (Enclosure)
K. Kirchbaum, NRC Region II
S. Koenick, NRC HQ
L. Pitts, NRC Region II (Enclosure)
O. Siurano-Perez, NRC HQ
A. Snyder, NRC HQ
M. Sykes, NRC Region II
J. Zimmerman, NRC HQ

Enclosure 1 to ACO 17-0034

Changed Pages of the Emergency Plan for the American Centrifuge Lead Cascade Facility

Information Contained Within
Does Not Contain
Export Controlled Information

Reviewing Official: #152

Date: 06/27/2017

The XT-847 Waste Management Staging Facility is located near the southern end of the DOE reservation. The building is a steel structure with concrete floors and is divided into three major staging areas. The northern and southern sections are separated from the center section of the building by concrete block four-hour rated firewalls and steel fire doors.

1.2.3 Lead Cascade

The Lead Cascade uses existing former DOE GCEP buildings. A brief description of primary Lead Cascade buildings and their purpose is provided below.

The Lead Cascade is located in a portion of the X-3001 Process Building. The primary purpose of the X-3001 building is to house the centrifuge machines and support systems necessary to perform the Lead Cascade activities. The north end of X-3001 building has an equipment/utility mezzanine where auxiliary equipment is housed. A building vent for the purge and evacuation vacuum systems is also located in the X-3001 building. Due to the nature of the centrifuge operation, a purge vacuum is applied to the machine to remove gas (either process gas or in-leakage of atmospheric gases) that enters the space between the internal rotor and the casing.

The process is controlled by a Local Control Center (LCC) at the cascade located in the X-3001 building. The LCC is connected to the Area Control Room (ACR) located in the X-3012 Process Support Building.

The X-3012 building is located east of X-3001 building. The X-3012 building is divided into three functional areas: an operational area, maintenance area, and a machine transfer corridor. The operational area is located in the north section of the building and includes the ACR for the X-3001 building; offices; lunchroom; restrooms; battery room; switchgear room; and heating, ventilation, and air conditioning (HVAC) rooms. A mezzanine above the north section contains the mechanical equipment room for the building.

The ACR provides the central operating functions to monitor and control both the Lead Cascade machines and process. The maintenance area is located in the south section of the building and includes maintenance shops, storage areas, a battery charging room, offices, locker rooms, restrooms, and a mezzanine area with additional office areas, and HVAC rooms.

The X-7725 Recycle/Assembly Building is a very large multiple level building. X-7725 building is used for office space, building utilities, and interim storage and handling of centrifuge machines/components prior to final movement to the Lead Cascade. Areas of the X-7725 building will be utilized for shipping, receiving, and storage of materials.

The X-7726 Centrifuge Training and Test Facility is located in the northwest corner of the X-7725 building. The X-7726 facility is the area where material and components are received and shipped; components or subassemblies are inspected and tested; the components are assembled as centrifuge machines; the final assembly is evacuated and leak checked; and repairs are performed to the machine or subassemblies.

The X7727H Interplant Transfer Corridor provides an enclosed north-south throughway from the X-7725 building and X-7726 facility to the X-3001 building. The corridor is wide enough to accommodate bi-directional passage of two fully loaded centrifuge transporters.