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**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001**

April 28, 2022

Kelly L. Fitch, Regulatory Manager  
American Centrifuge Operating, LLC  
P.O. Box 628  
Mail Stop 7560  
3930 U.S. 23 South  
Piketon, Ohio 45661

**SUBJECT: APPROVAL OF AMERICAN CENTRIFUGE OPERATING REQUEST TO USE  
DIGITALLY BASED ITEMS RELIED ON FOR SAFETY IN THE HIGH ASSAY  
LOW-ENRICHED URANIUM DEMONSTRATION PROGRAM AT THE  
AMERICAN CENTRIFUGE PLANT (EPID L-2020-LLA-0125)**

Dear Kelly Fitch:

By letter dated June 30, 2021 (Agencywide Document Access and Management System [ADAMS] Accession No. ML21196A038), American Centrifuge Operating (ACO), a wholly owned subsidiary of Centrus Energy Corp. (Centrus), requested that the U.S. Nuclear Regulatory Commission (NRC) modify its Materials License SNM-2011 and Supporting Documents for the American Centrifuge Plant (ACP) in Piketon, Ohio. The Licensee's letter requested the NRC to review and approve proposed changes to LA-3605-0001, "License Application for the American Centrifuge Plant", LA-3605-0003, "Integrated Safety Analysis Summary for the American Centrifuge Plant," and License Condition 19 (LC 19) of NRC's Materials License SNM-2011. Specifically, in accordance with LC 19, ACO has requested the NRC to review and approve use of digitally based items relied on for safety in the High Assay Low-Enriched Uranium demonstration program at the ACP.

The NRC staff has completed its review of these documents and have found them to be acceptable. The details associated with the review are documented in the enclosed non-public safety evaluation report (SER). In response to the application, the NRC has revised LC 19 to the enclosed license SNM-2011 related to implementation changes for items relied on for safety (IROFS).

Enclosures 1 and 3 transmitted herewith contain security-related information. When separated from the sensitive conditions in the enclosures, this document and Enclosure 3 are decontrolled.

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In accordance with Title 10 of the *Code of Federal Regulations*, Section 2.390 of the NRC's "Agency Rules of Practice and Procedure," a copy of this letter and Enclosure 3 will be available electronically for public inspection in the NRC Public Document Room (PDR), or from the Publicly Available Records component of the NRC's ADAMS. The PDR is open by appointment only. You may submit your request to the PDR via e-mail at [PDR.Resource@nrc.gov](mailto:PDR.Resource@nrc.gov) or call 1-800-397-4209 between 8:00 a.m. and 4:00 p.m. (EST), Monday through Friday, except Federal holidays. ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room). Enclosures 1 and 3 to this letter contain sensitive, unclassified information, and are therefore deemed Official Use Only (OUO). In addition, Enclosure 1 contains proprietary information and export-controlled information (ECI). Therefore, they will not be placed in the Public Document Room, nor will it be publicly available in ADAMS.

If you have any questions regarding this action, please contact Mr. Yawar Faraz by telephone at 301-415-7220, or via e-mail at [Yawar.Faraz@nrc.gov](mailto:Yawar.Faraz@nrc.gov).

Sincerely,

Jacob I. Zimmerman, Chief  
Fuel Facility Licensing Branch  
Division of Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 07007004  
License No. SNM-2011

Enclosures:

1. SER (Proprietary, OUO-SRI, ECI)
2. SER (Public)
3. Amendment 17 of the ACP License SNM-2011 (OUO-SRI)
4. Amendment 17 of the ACP License SNM-2011 (Public)

cc: L. Cutlip, Vice President, Centrus  
M. Snider, General Manager, ACO  
S. Harlow, DOE NE-HQ  
[centrus\\_acp@listmgr.nrc.gov](mailto:centrus_acp@listmgr.nrc.gov) (w/o Enclosures 1 and 3)

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SUBJECT: APPROVAL OF AMERICAN CENTRIFUGE OPERATING REQUEST TO USE DIGITALLY BASED ITEMS RELIED ON FOR SAFETY IN THE HIGH ASSAY LOW-ENRICHED URANIUM DEMONSTRATION PROGRAM AT THE AMERICAN CENTRIFUGE PLANT (EPID L-2020-LLA-0125)

DATE: April 28, 2022

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