



~~OFFICIAL USE ONLY – SECURITY RELATED INFORMATION~~
~~PROPRIETARY INFORMATION – EXPORT CONTROLLED INFORMATION~~

**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.

~~OFFICIAL USE ONLY – SECURITY RELATED INFORMATION~~
~~PROPRIETARY INFORMATION – EXPORT CONTROLLED INFORMATION~~

~~OFFICIAL USE ONLY – SECURITY RELATED INFORMATION~~
~~PROPRIETARY INFORMATION – EXPORT CONTROLLED INFORMATION~~

K. Fitch

2

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 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.

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 (w/o Enclosures 1 and 3)

~~OFFICIAL USE ONLY – SECURITY RELATED INFORMATION~~
~~PROPRIETARY INFORMATION – EXPORT CONTROLLED INFORMATION~~

~~OFFICIAL USE ONLY – SECURITY RELATED INFORMATION~~
~~PROPRIETARY INFORMATION – EXPORT CONTROLLED INFORMATION~~

K. Fitch

3

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

DISTRIBUTION:

DFM r/f	MCall, NMSS	JTobin, NMSS
NStAmour, OGC	TVukowinski, RII	RWomack, RII
LClark, OGC	SHelton, NMSS	CRegan, NMSS
DRahn, NRR	JMunson, NMSS	LPitts, RII
DMcIntyre, OPA	JWeil, NMSS	NPitoniak, RII
TSteinfeldt, OGC	CWolf, OCA	RWilliams, RII
PJehle, OGC	TCampbell, OGC	JHammelman, NMSS

ADAMS Accession Nos.: ML21292A281 (Pkg), ML21292A282 (ltr), ML21292A283 (Encl 1), ML21350A101 (Encl 2), ML21292A284 (Encl 3), ML21292A285 (Encl 4)

OFFICE	NMSS/DFM/FFLB/PM	NMSS/DFM/FFLB/LA	OGC	NRR/DEX/ELTB/BC
NAME	YFaraz	ELee	PJehle	JJohnston
DATE	04/04/2022	04/04/2022	04/18/2022	04/22/2022
OFFICE	NMSS/DFM/NARAB/BC	NMSS/DFM/FFLB/BC		
NAME	MDiaz	JZimmerman		
DATE	04/22/2022	04/28/2022		

OFFICIAL RECORD COPY

~~OFFICIAL USE ONLY – SECURITY RELATED INFORMATION~~
~~PROPRIETARY INFORMATION – EXPORT CONTROLLED INFORMATION~~