

U.S. NUCLEAR REGULATORY COMMISSION

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, *Code of Federal Regulations* (10 CFR), Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the U.S. Nuclear Regulatory Commission (NRC) now or hereafter in effect and to any conditions specified below.

Licensee	
1. American Centrifuge Operating, LLC	2. License Number: SNM-7003, Amendment 15
3. American Centrifuge Lead Cascade Facility	
P.O. Box 628	4. Expiration Date: See Condition 14
Piketon, Ohio 45661-0628	5. Docket No. 70-7003

6. Source Special Nuclear
Material By-Product MaterialA. Uranium
(natural and depleted)
and daughter productsB. Uranium enriched in
isotope U-235 up to
10 percent by weight and
uranium daughters

C. Plutonium

7. Chemical and/or Physical
Form Under This LicenseA.1 Physical: Solid
and GasA.2 Chemical: UF₆, UF₄,
UO₂F₂, oxides and
other compoundsB.1 Physical: Solid
and GasB.2 Chemical: UF₆, UF₄,
UO₂F₂, oxides, metal
and other compounds

C. Sealed Sources

8. Maximum amount that
May Possess at Any One
TimeA. [Security-Related
Information
Withheld Under
10 CFR 2.390]B. [Security-Related
Information
Withheld
Under 10 CFR
2.390]C. [Security-Related
Information
Withheld Under
10 CFR 2.390]

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9. Authorized place of use: American Centrifuge Lead Cascade Facility, located at the Portsmouth Gaseous Diffusion Plant site in Piketon, Ohio.
10. The licensee shall conduct authorized activities at the American Centrifuge Lead Cascade Facility in accordance with the statements, representations, and conditions in:
- a. License Application dated February 11, 2003, as modified by revisions dated November 6, 2003, January 6, 2004, January 20, 2004, February 18, 2004, July 1, 2005, November 30, 2005, January 26, 2006, January 27, 2006, February 28, 2006, March 24, 2006, April 21, 2006, June 12, 2006, June 15, 2006, June 30, 2006, July 14, 2006, July 21, 2006, September 15, 2006, December 14, 2006, January 24, 2007, June 26, 2007, October 11, 2007, November 8, 2007, January 14, 2008, January 25, 2008, June 5, 2008, October 9, 2008, December 16, 2008, January 15, 2009, January 30, 2009, May 28, 2009, July 20, 2009, August 12, 2009, October 28, 2009, January 20, 2010, February 24, 2010, April 16, 2010, April 30, 2010, June 7, 2010, August 11, 2010, August 30, 2010, September 14, 2010, October 22, 2010, November 17, 2010, February 28, 2011, March 18, 2011, April 29, 2011, May 27, 2011, October 12, 2011, October 27, 2011, February 17, 2012, July 31, 2012, September 10, 2012, February 20, 2013, February 28, 2013, May 24, 2013, September 5, 2013, October 30, 2013, November 27, 2013, January 7, 2014, August 14, 2015, September 21, 2015, December 18, 2015, June 30, 2016, August 31, 2016, December 16, 2017, January 6, 2017, and March 13, 2017.
 - b. Withheld information from License Application dated February 11, 2003, as modified by revisions dated July 22, 2005, November 30, 2005, November 8, 2007, January 14, 2008, December 16, 2008, January 20, 2010, February 28, 2011, April 29, 2011, October 12, 2011, July 31, 2012, and October 30, 2013.
 - b. Environmental Report dated February 11, 2003, as modified by revisions dated November 6, 2003, January 20, 2004, February 28, 2011, April 29, 2011, and May 27, 2011.
 - d. Withheld information from Environmental Report dated February 11, 2003, as modified by revisions dated November 10, 2003, February 28, 2011, and April 29, 2011.
 - e. Decommissioning Funding Plan (non-proprietary) dated July 14, 2006, as modified by revisions dated July 1, 2005, November 30, 2005, February 28, 2006, March 24, 2006, July 14, 2006, January 15, 2009, January 30, 2009, May 28, 2009, July 20, 2009, April 16, 2010, October 28, 2010, February 28, 2011, February 17, 2012, May 24, 2013, and January 5, 2018.
 - f. Decommissioning Funding Plans Proprietary Tables dated July 14, 2006, as modified by revision dated April 16, 2010, January 12, 2012, May 24, 2013, and January 5, 2018.
 - g. Original Security Program dated July 33, 2002, as modified by revisions dated November 30, 2005, January 27, 2006, June 15, 2006, September 1, 2006, June 4, 2007, August 17, 2007, January 14, 2008, January 25, 2008, March 7, 2008, June 27, 2008, and January 30, 2009. Replaced by Security Program referenced in SNM-2011 dated August 12, 2009, as modified

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by revisions dated October 28, 2009, November 18, 2009, April 12, 2010, April 30, 2010, January 28, 2011, March 18, 2011, February 28, 2013, September 5, 2013, February 24, 2014, April 15, 2014, September 25, 2014, April 10, 2015, August 14, 2015 June 30, 2016, August 31, 2016, December 16, 2016 and March 13, 2017; and in accordance with statements, representations, and conditions, pertaining to the NRC's approval of License amendment application dated September 16, 2016 and November 16, 2016.

- h. Fundamental Nuclear Material Control Plan dated February 11, 2003, as modified by revisions dated July 1, 2005, November 30, 2005, October 16, 2006, July 10, 2007, January 25, 2008, January 15, 2009, January 30, 2009, April 10, 2009, October 22, 2010, November 17, 2010, October 12, 2011, January 31, 2012, September 10, 2012, February 20, 2013, December 18, 2015, June 30, 2016, December 16, 2016, and March 13, 2017.
- i. Original Quality Assurance Program Description dated July 19, 2002, as modified by revisions dated July 1, 2005, November 30, 2005, January 26, 2006, January 26, 2006, June 30, 2006, January 25, 2008, and July 23, 2008. Replaced by Quality Assurance Program Description referenced in SNM-2011 dated July 18, 2008, October 9, 2008, January 15, 2009, January 30, 2009, June 10, 2009, September 4, 2009, October 28, 2009, April 30, 2010, August 11, 2010, November 17, 2010, September 10, 2012, February 20, 2013, August 14, 2015, June 30, 2016, August 31, 2016, December 16, 2016, and March 13, 2017.
- j. Information System Security Plans: SP-3605-0002 accredited through July 13, 2013; and SP-3605-0003 accredited through July 13, 2013.
- k. Classified Distributed Information Network Plans: SP-2605-0017 approved on August 27, 2007, and superseded by SP-2605-0028 approved on June 4, 2008.
- l. Transportation Security Plan for Classified Matter Shipments dated November 25, 2008, as modified by revision dated April 12, 2010, November 17, 2010, February 28, 2013, and March 13, 2017; and in accordance with statements, representations, and conditions, pertaining to the U.S. Nuclear Regulatory Commission's approval of License amendment application dated December 20, 2016.
- m. Operations Security Plan 331-06-161, approved January 20, 2012, as modified by Revisions dated December 2012 (approved January 25, 2013), December 2013 (approved on April 1, 2014); and November 2014 (approved on July 8, 2015).
- n. Classified Security Plans: SP-3605-0031 and SP3605-0032 approved by the NRC on June 15, 2017.
- o. Decommissioning Plan dated January 5, 2018.

11. Deleted by Amendment 2.

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12. American Centrifuge Operating, LLC is hereby granted the special authorizations and exemptions identified in Chapter 1, Section 1.2.3.E of the American Centrifuge Lead Cascade Facility Safety Evaluation Report, dated January 2004 and section 1.2.5 of the license application.
13. Deleted by Amendment 2.
14. This license will expire on the earlier of August 23, 2011, or the date on which the Agreement between the U.S. Department of Energy and the United States Enrichment Corporation for the Lease of Facilities used for the American Centrifuge Lead Cascade Facility (including any modification, extension, or replacement of the Lease) expires, terminates, or is otherwise revoked or relinquished.
15. No later than every three years the licensee shall update the Decommissioning Funding Plan and provide it to the NRC for review. After resolution of any NRC comments, the licensee shall submit final executed copies of the financial assurance instruments.
16. A change to the facility or its processes is evaluated before the change is implemented using the criteria below. The evaluation of the change determines, before the change is implemented, whether an application for an amendment to the License Application is required to be submitted in accordance with 10 CFR Section 70.34.
- a. The licensee may make changes to the License Application, without prior NRC approval, if the change:
 - i. Does not decrease the level of effectiveness of the design basis as described in the License Application;
 - ii. Does not result in a departure from a method of evaluation described in the License Application used in establishing the design bases;
 - iii. Does not result in a degradation in safety;
 - iv. Does not affect compliance with applicable regulatory requirements; and
 - v. Does not conflict with an existing license condition.
 - b. If a change to the License Application is made, the affected onsite documentation will be updated promptly per written procedures. The licensee maintains records of changes to its facility. These records include a written evaluation that provides the bases for the determination that the changes to the License Application do not require prior NRC approval. These records are maintained until termination of the license.
 - c. Changes are communicated to the NRC as follows:
 - i. For changes that require NRC pre-approval, the licensee submits an amendment request to the NRC in accordance with 10 CFR Sections 70.34 and 70.65.
 - ii. For changes to the License Application that do not require NRC pre-approval, the licensee submits to the NRC annually, within 30 days after the end of the calendar year during which the changes occurred, a brief summary of the changes

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FOR THE U. S. NUCLEAR REGULATORY COMMISSION

Date: August 07, 2018

By: IRA

Craig G. Erlanger, Director
Division of Fuel Cycle Safety, Safeguards,
and Environmental Review
Office of Nuclear Material Safety
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