

NRC FORM 7

(02-2016)
10 CFR 110

U. S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0027

EXPIRES: 11/30/2018

**APPLICATION FOR NRC EXPORT OR IMPORT
LICENSE, AMENDMENT, RENEWAL,
OR CONSENT REQUEST(S)**
(See Instructions on Pages 4 and 5)

Estimated burden per response to comply with this mandatory collection request: 2.4 hours. This submittal is reviewed to ensure that the applicable statutory, regulatory, and policy considerations are satisfied. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollections.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0027), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

PART A. FOR NRC USE ONLY
☒ PUBLIC OR ☐ NON-PUBLIC

DATE RECEIVED

SEP 11 2018 SZF

LICENSE NUMBER

XSNM3797

DOCKET NUMBER

11006320

ADAMS ACCESSION NUMBER

PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS, OR CONSENT REQUESTS

(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

1. NAME AND ADDRESS OF APPLICANT/LICENSEE

U. S. Department of Energy (DOE)
National Nuclear Security Administration (NNSA)
Y-12 National Security Complex
301 Bear Creek Road
Oak Ridge, TN 37831

1a. NAME OF APPLICANT'S CONTACT

Becky G. Eddy

1b. APPLICANT'S REFERENCE NUMBER

KAERI-EU18

1c. PHONE NUMBER

(865) 576-4119

1d. FAX NUMBER

(865) 574-0492

1e. E-MAIL ADDRESS

becky.eddy@npo.doe.gov

2. TYPE OF ACTION REQUESTED (Check One)



EXPORT

(Parts B, C, E)



IMPORT

(Parts B, D, E)



AMENDMENT/RENEWAL

Current License Number:



CONSENT REQUEST

(Parts B, C)

Current License Number:

3. CONTRACT NUMBER(S)

NNSA-SC18-Y12-2345

4. FIRST SHIPMENT DATE

3/1/2019

5. LAST SHIPMENT DATE

11/30/2022

6. PROPOSED EXPIRATION DATE

12/31/2022

PART C. TO BE COMPLETED FOR EXPORT LICENSES, AMENDMENTS, OR RENEWALS

(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

7. NAME(S) / ADDRESS(ES) OF SUPPLIERS
AND/OR OTHER PARTIES TO THE EXPORT

Department of Energy (DOE)
National Nuclear Security Administration (NNSA)
Y-12 National Security Complex (NSC)
301 Bear Creek Road
Oak Ridge, TN 37831

8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE
FOREIGN CONSIGNEE(S)

Korea Atomic Energy Research Institute
150 Dukjin-Dong, Yusong-Ku
Daejeon 305-353
Republic of Korea

9. NAME(S) / ADDRESS(ES) OF ULTIMATE
FOREIGN CONSIGNEE(S)

Korea Atomic Energy Research Institute
150 Dukjin-Dong, Yusong-Ku
Daejeon, 305-353
Republic of Korea

7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED

Supplier/Transporter

8a. INTERMEDIATE USE(S)

See Page 3

9a. ULTIMATE END USE(S)

See Page 3

10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES,
NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR
NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF
EQUIPMENT FOR EXPORT

95.76 kg uranium-235 contained in maximum of 480.00 kg
uranium, enriched to a maximum of 19.95%, in the form of
broken metal.

10a. MAX TOTAL VOLUME /
ELEMENT WGT (KG), OR
TOTAL ACTIVITY (TBq)

480.00 kg

10b. MAX ENRICHMENT
OR WGT %

19.95%

10c. MAX ISOTOPE
WGT (KG)

95.76 kg

11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)

100% US Obligation

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**APPLICATION FOR NRC EXPORT OR IMPORT
LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)**

LICENSE NUMBER XSNM3797	DOCKET NUMBER 11006320	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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PART D. TO BE COMPLETED FOR IMPORT LICENSES, AMENDMENTS, OR RENEWALS

(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

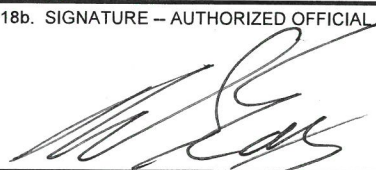
12. NAME(S) / ADDRESS(ES) OF FOREIGN SUPPLIERS AND/OR OTHER PARTIES TO IMPORT	13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S)	14. NAME(S) / ADDRESS(ES) OF ULTIMATE U. S. CONSIGNEE(S)	
12a. NRC EXPORT LICENSE NUMBER(S) (if applicable)	13a. LICENSE NUMBER(S) / EXPIRATION DATE(S)	14a. LICENSE NUMBER(S) / EXPIRATION DATE(S)	
	13b. INTERMEDIATE USE(S)	14b. ULTIMATE END USE(S)	
15. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES	15a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)	15b. MAX ENRICHMENT OR WGT %	15c. MAX ISOTOPE WGT (KG)

16. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)

PART E. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS OR CONSENT REQUEST(S)

17. ADDITIONAL INFORMATION PROVIDED ON PAGES 3, 4, AND/OR ON SEPARATE SHEETS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17a. COPIES OF RECIPIENTS' AUTHORIZATIONS PROVIDED? <input type="checkbox"/> YES <input type="checkbox"/> NO
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18. CERTIFICATION: I, the applicant's authorized official, hereby certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, and that all information provided is correct to the best of my knowledge.

18a. PRINT NAME AND TITLE OF AUTHORIZED OFFICIAL Becky G. Eddy DOE NNSA Production Office Y-12, Program Manager	18b. SIGNATURE – AUTHORIZED OFFICIAL 	18c. DATE 09/05/2018
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APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)

LICENSE NUMBER

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PUBLIC

OR



NON-PUBLIC

XSNM3197

11006320

ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

Part C, Blocks 7 & 7a, Suppliers and/or Other Parties to the Export:

Consolidated Nuclear Security (CNS) LLC
301 Bear Creek Road
Oak Ridge, TN 37831
(DOE/NNSA Supply and Transport Contractor)

Part C, Block 8a, Intermediate Use(s):

- (1) Fabrication of fuel elements for the High Flux Advanced Neutron Application (HANARO) research reactor,
- (2) Fabrication of fuel elements for the Kijang research reactor (KJRR),
- (3) Fabrication of dispersion or monolithic targets, and
- (4) Fabrication to support research and development for advanced research reactor fuel.

Part C, Block 9a, Ultimate End Use(s):

- (1) Fuel elements for irradiation in the HANARO research reactor,
- (2) Fuel elements for irradiation in the Kijang research reactor (KJRR),
- (3) Commercial production of medical isotopes from monolithic or dispersion targets, and
- (4) Research and development for advanced research reactor fuel.



**Department of Energy
National Nuclear Security Administration
Production Office**

P.O. Box 2050
Oak Ridge, TN 37831

P.O. Box 30030
Amarillo, TX 79120



September 5, 2018

Mr. David Skeen, Deputy Director
Office of International Programs
U. S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, Maryland 20852-2738

Dear Mr. Skeen:

**EXPORT LICENSE APPLICATION FOR THE DEPARTMENT OF ENERGY NATIONAL
NUCLEAR SECURITY ADMINISTRATION SHIPMENT OF ENRICHED URANIUM TO
THE KOREA ATOMIC ENERGY AND RESEARCH INSTITUTE**

Enclosed is a Department of Energy (DOE), National Nuclear Security Administration (NNSA), application to export enriched uranium in the form of broken metal to the Korea Atomic Energy and Research Institute (KAERI). The enriched uranium will be used for the fabrication of fuel for the High Flux Advanced Neutron Application (HANARO) and Kijang (KJRR) research reactors, fabrication of monolithic or dispersion targets for medical isotope production, and research and development activities for advanced reactor fuel.

The application, NRC Form 7 (Enclosure 1) has been determined to be unclassified, non-sensitive and can be made available to the public.

In accordance, with the Nuclear Regulatory Commission (NRC) Fiscal Year 2018 Final Fee Rule published in the Federal Register on June 25, 2018, no funds are being provided to process this application.

If you have any questions or require additional information, please contact me at (865) 576-4119 or becky.eddy@npo.doe.gov.

Sincerely,

Becky G. Eddy
Program Manager

Enclosure:
NRC Form 7 (KAERI-EU18)

cc w/enclosure:
B. Wilhoit, CNS Y-12
M. Einwechter, NPO-70

