


<b>NRC FORM 7</b> (11-2012) 10 CFR 110		 <b>U. S. NUCLEAR REGULATORY COMMISSION</b>		<b>APPROVED BY OMB: NO. 3150-0027</b>		<b>EXPIRES: (11/30/2015)</b>	
<b>APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S)</b> (See Instructions on Pages 4 and 5)							
<b>PART A. FOR NRC USE ONLY</b>			<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC			DATE RECEIVED <b>OCT 07 2013</b> JC	
LICENSE NUMBER <b>XSNM 3749</b>			DOCKET NUMBER <b>11006124</b>			ADAMS ACCESSION NUMBER	
<b>PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS, OR CONSENT REQUESTS</b> (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 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-LEU13		
			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)							
<input checked="" type="checkbox"/> EXPORT (Parts B, C, E)		<input type="checkbox"/> IMPORT (Parts B, D, E)		<input type="checkbox"/> AMENDMENT/RENEWAL Current License Number:		<input type="checkbox"/> CONSENT REQUEST (Parts B, C) Current License Number:	
3. CONTRACT NUMBER(S) NNSA-SC13-Y12-1010		4. FIRST SHIPMENT DATE October 30, 2013		5. LAST SHIPMENT DATE October 31, 2017		6. PROPOSED EXPIRATION DATE December 31, 2017	
<b>PART C. TO BE COMPLETED FOR EXPORT LICENSES, AMENDMENTS, OR RENEWALS</b> (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 National Nuclear Security Administration Y-12 National Security Complex 301 Bear Creek Road Oak Ridge, TN 37831			8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)  Korea Atomic Energy Research Institute 1850 Deokjin-dong, Yuseong-ku Daejeon, Korea			9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)  Korea Atomic Energy Research Institute 1850 Deokjin-dong, Yuseong-ku Daejeon, Korea Owner of: 1) High-Flux Advanced Neutron Application Reactor (HANARO) Daejeon, Korea 2) Ki-Jang Research Reactor (KJRR) Kijang, Korea	
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED Supplier/Transportation			8a. INTERMEDIATE USE(S) Fuel/Target Fabrication			9a. ULTIMATE END USE(S) Fuel/Targets/Fuel Development	
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT  136.1 kg uranium-235 contained in maximum of 682.5 kg uranium, enriched to maximum of 19.95%, in the form of broken metal.				10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) 682.5 kg U		10b. MAX ENRICHMENT OR WGT % 19.95%	10c. MAX ISOTOPE WGT (KG) 136.1 kg U235
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) 100% US Obligation							
						<b>OCT 07 2013</b> JC	

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U. S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER <b>XSXM3749</b>	DOCKET NUMBER <b>11006124</b>	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 checked="" 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, Program Manager	18b. SIGNATURE -- AUTHORIZED OFFICIAL  	18c. DATE  Sept. 9-2013
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OCT 07 2013

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(11-2012)  
10 CFR 110

U. S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER XSXM3749	DOCKET NUMBER 11006124	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

Part B. 4 and 5: Dates do not reflect actual ship dates. Time-frame indicated for shipments to support research reactor fuel fabrication and fuel development.

Page 1, Block 7 and 7a. Other parties to the Export:

B & W Y-12 LLC (DOE/NNSA Y-12 Management and Operating Contractor/Transporter)  
301 Bear Creek Road  
Oak Ridge, TN 37931

Page 1, 9a.

LEU provided by DOE under this Contract will only be delivered to the Customer's site for the specified and intended purpose, for any or all of the following:

- (1) production of LEU fuel elements for irradiation in the HANARO research reactor;
- (2) production of fuel elements for a new research reactor (KJRR) in Kijang, Korea and irradiation in KJRR;
- (3) research and development for advanced research reactor fuel such as uranium-molybdenum; and
- (4) fabrication/irradiation of dispersion or monolithic targets for medical isotope production.

OCT 07 2013

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**U.S. Department of Energy**  
NNSA Production Office  
Post Office Box 2050  
Oak Ridge, Tennessee 37831-8009



SEP 10 2013

XSNM 3749

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

OCT 07 2013  
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Dear Mr. Shaffer:

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

Enclosed is a Department of Energy (DOE), National Nuclear Security Administration (NNSA), application to export enriched uranium to the Korea Atomic Energy Research Institute (KAERI) located in Daejeon, Republic of Korea (Enclosure 1). This application is to request an export license to supply enriched uranium feedstock to KAERI for: (1) fabricating fuel to be irradiated in the HANARO research reactor; (2) fabricating fuel for the new Ki-Jang Research Reactor (KJRR); (3) research and development of advanced research reactor fuel; and (4) fabricating/irradiating targets for medical isotope production. This export license application addresses the enriched uranium quantities needed by KAERI through December 2017, in accordance with the DOE NNSA-KAERI uranium supply contract NNSA-SC123-Y12-1010.

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

An Interagency Agreement, DE-AI52-09NA28981, between NNSA and the Nuclear Regulatory Agency (NRC) was executed on April 15, 2009, for NRC services and fees. Sufficient funds were added in April 2013 (Modification 005) and are available for processing this application.

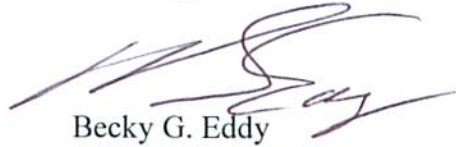
Mr. Shaffer

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SEP 10 2013

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

Sincerely,



Becky G. Eddy  
Program Manager  
NNSA Production Office/Y-12

Enclosure:  
NRC Form 7 (KAERI-LEU13)

cc w/enclosure:  
T. Nelson, 301BCR, MS 8112, B&W Y-12

cc w/o enclosure:  
J. Albaugh, NPO-50, Y-12

OCT 07 2013

XSNM3749  
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