


<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>	
<p align="center"><b>APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S)</b>          (See Instructions on Pages 4 and 5)</p>							
<b>PART A. FOR NRC USE ONLY</b>			<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC			DATE RECEIVED <b>AUG 26 2013</b> <i>JC</i>	
LICENSE NUMBER <b>XSNM 3672/01</b>			DOCKET NUMBER <b>11005913</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 (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 AECL-LEU11-R2		
			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 type="checkbox"/> EXPORT (Parts B, C, E)		<input type="checkbox"/> IMPORT (Parts B, D, E)		<input checked="" type="checkbox"/> AMENDMENT/RENEWAL Current License Number: XSNM3672-R		<input type="checkbox"/> CONSENT REQUEST (Parts B, C) Current License Number:	
3. CONTRACT NUMBER(S) NNSA-SC11-Y12-1206		4. FIRST SHIPMENT DATE 03/01/2011		5. LAST SHIPMENT DATE 12/31/2016		6. PROPOSED EXPIRATION DATE 12/31/2016	
<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 DOE NNSA Y-12 National Security Complex 301 Bear Creek Road Oak Ridge, TN 37831			8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S) Atomic Energy of Canada Limited (AECL) Chalk River Laboratories Chalk River, Ontario K0J 1J0 Canada			9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) Atomic Energy of Canada Limited (AECL) Chalk River Laboratories Chalk River, Ontario K0J 1J0 Canada	
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED Supplier/Transportation			8a. INTERMEDIATE USE(S) Fuel Fabrication			9a. ULTIMATE END USE(S) NRU Reactor Fuel	
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT  237.3 kg uranium-235 contained in maximum of 1189.5 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)  1189.5 kg (an increase of 619.5 kg)		10b. MAX ENRICHMENT OR WGT %  19.95%	10c. MAX ISOTOPE WGT (KG)  237.3 kg (an increase of 123.6 kg).
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) 100% US Obligation							
						<b>AUG 26 2013</b> <i>JC</i>	

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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 <i>XSNM3672/01</i>	DOCKET NUMBER <i>11005913</i>	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, Program Manager	18b. SIGNATURE -- AUTHORIZED OFFICIAL 	18c. DATE  <i>8/20/2013</i>
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**AUG 26 2013**  
JC

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

LICENSE NUMBER XSNM3672/01	DOCKET NUMBER 11005913	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)

Page 1, Block 7 and 7a. Other parties to the Export:  
B & W Y-12 LLC (DOE/NNSA Contractor/Transporter)  
301 Bear Creek Road  
Oak Ridge, TN 37931

Page 1, 9a. Used as fuel in the National Research Universal (NRU) Reactor.

AUG 26 2013  
JC



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



August 22, 2013

AUG 26 2013

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XSNM 3672/01

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

Dear Mr. Shaffer:

**EXPORT LICENSE APPLICATION AMENDMENT FOR THE DEPARTMENT OF ENERGY SHIPMENT OF ENRICHED URANIUM TO ATOMIC ENERGY OF CANADA LIMITED FOR USE IN THE NATIONAL RESEARCH UNIVERSAL REACTOR LOCATED IN CHALK RIVER, CANADA**

Enclosed is a Department of Energy (DOE), National Nuclear Security Administration (NNSA), application to export low enriched uranium to the Atomic Energy of Canada Limited (AECL) located in Chalk River, Canada (Enclosure 1). This application is to request an amendment to the existing license XSNM-2672-R to supply low enriched uranium feedstock to AECL, solely for fabricating fuel to be irradiated in the National Research Universal (NRU) reactor. This export license amendment would increase the maximum enriched uranium quantity and extend the license to be consistent with the extension of the operating license for the NRU reactor through October 31, 2016.

The attached 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.

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

Enclosures:  
 NRC Form 7 (AECL-LEU11-R2)

See page 2 for distribution

<b>APPROVED FOR PUBLIC RELEASE</b>	
This document has been approved for release to the public by	
<i>Becky G. Eddy</i>	<i>08/21/2013</i>
NNSA Y-12 Site Office Classification Officer	Date

*jo*  
 NNSA Y-12 Site Office Class. Analyst

Mark Shaffer

-2-

August 22, 2013

cc w/enclosure:

T. Nelson, 301BCR, MS 8112, B&W Y-12

cc w/o enclosure:

J. Albaugh, NPO-50, Y-12

XSNM3672/01

AUG 26 2013  
JC