


NRC FORM 7 (02-2016) 10 CFR 110		 U. S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0027		EXPIRES: 11/30/2018	
<p align="center">APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (See Instructions on Pages 4 and 5)</p>							
PART A. FOR NRC USE ONLY			<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC			DATE RECEIVED SEP 11 2018 <i>625</i>	
LICENSE NUMBER XSNM.3794			DOCKET NUMBER 11004323			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 AECL-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)							
<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-SC18-Y12-0714		4. FIRST SHIPMENT DATE 11/1/2018		5. LAST SHIPMENT DATE 06/30/2019		6. PROPOSED EXPIRATION DATE 12/31/2019	
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) See Page 3		9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) Royal Military College of Canada 13 General Crerar Crescent Kingston, Ontario Canada K7K 7B4		
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED Supplier/Transporter			8a. INTERMEDIATE USE(S) See Page 3		9a. ULTIMATE END USE(S) Slowpoke-2 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				10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)		10b. MAX ENRICHMENT OR WGT %	10c. MAX ISOTOPE WGT (KG)
a. 19 Slowpoke-2 Reactor fuel pins containing 0.105 kg uranium-235 in the form of uranium dioxide.				0.548 kg		19.89%	0.105 kg
b. Maximum of 226 Meters of Zircalloy-4 tubing manufactured in accordance with CRNL-2929, "Specification for Low-Enriched Uranium Dioxide Fuel Elements for Use in the Slowpoke-2 Reactor							
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) 100% Canada and US							

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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 XSNM3796	DOCKET NUMBER 11004323	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) <i>(if applicable)</i>	13a. LICENSE NUMBER(S) / EXPIRATION DATE(S)	14a. LICENSE NUMBER(S) / EXPIRATION DATE(S)
	13b. INTERMEDIATE USE(S)	14b. ULTIMATE END USE(S)

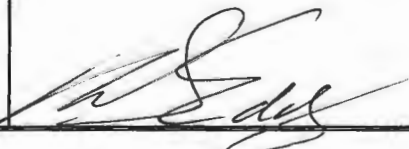
15. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES	15a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)	15b. MAX ENRICHMENT OR WGT %	15c. MAX ISOTOPE WGT (KG)
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16. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE 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 Title10, 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 09/04/2018
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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, Blocks 8 & 8a, Intermediate Foreign Consignee(s):

Atomic Energy of Canada Limited (AECL)
286 Plant Road
Chalk River, Ontario K0J 1J0
Canada
(Fuel Fabrication)

Canadian Nuclear Laboratories
Chalk River Laboratories
286 Plant Road
Chalk River, Ontario K0J 1J0
Canada
(AECL Fuel Fabrication Contractor)

Part C, Block 9a:

The fuel fabricated from this export will be used to load a new core into the Slowpoke-2 Reactor located in Kingston, Ontario and operated by the Royal Military College of Canada.



**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

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

Dear Mr. Skeen:

**APPLICATION TO EXPORT FUEL PINS AND ZIRCALLOY-4 TUBING TO THE
ATOMIC ENERGY OF CANADA LIMITED**

Enclosed is a Department of Energy (DOE), National Nuclear Security Administration (NNSA), application to export fuel pins containing uranium dioxide and zircalloy-4 tubing to the Atomic Energy of Canada Limited (AECL). The fuel pins and zircalloy-4 tubing will be exported to Canadian Nuclear Laboratories in Chalk River, Ontario for exclusive use in fabricating a new fuel core for the Slowpoke-2 Research Reactor located at the Royal Military College of Canada.

The fuel pins and zircalloy-4 tubing are surplus from the conversion of the Slowpoke-2 Research Reactor at the University of the West Indies in Kingston, Jamaica. All items planned for export carry Canadian obligations for peaceful use.

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 (AECL-EU18)

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

APPROVED FOR PUBLIC RELEASE
This document has been approved for release to the public by:
<i>David Kent For</i> <i>9/5/18</i>
NPOY-12 Site Office Classification Officer Date

ENCLOSURE 1
Letter B. Eddy to
D. Skeen

NRC FORM 7 (AECL-EU18)

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<i>David Kent For</i>	
<i>DAVID KENT FOR</i>	<i>9/5/18</i>
NPO Y-12 Site Office Classification Officer	Date