

NRC FORM 7 (8-2010) 10 CFR 110		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0027	EXPIRES: 08/31/2012
APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, OR RENEWAL (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 Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects.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		<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC		DATE RECEIVED <b>DEC 20 2010</b> JC	
LICENSE NUMBER <b>XSNM 3633</b>		DOCKET NUMBER <b>11005854</b>		ADAMS ACCESSION NUMBER <b>ML103540454</b>	
PART B. TO BE COMPLETED FOR ALL 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.)					
1. NAME AND ADDRESS OF APPLICANT/LICENSEE <b>U. S. Department of Energy Y-12 National Security Complex 301 Bear Creek Road Oak Ridge, TN 37831</b>		1a. NAME OF APPLICANT'S CONTACT <b>Becky G. Eddy</b>		1b. APPLICANT'S REFERENCE NUMBER <b>ILL-EU10</b>	
		1c. PHONE NUMBER <b>865-576-4119</b>		1d. FAX NUMBER <b>865-574-0492</b>	
		1e. E-MAIL ADDRESS <b>eddybg@yso.doe.gov</b>			
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 Existing License Number:					
3. CONTRACT NUMBER(S) <b>DE-SC55-10NA29753</b>		4. FIRST SHIPMENT DATE <b>01/01/2012</b>		5. LAST SHIPMENT DATE <b>12/31/2012</b>	
				6. PROPOSED EXPIRATION DATE <b>06/30/2013</b>	
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 <b>DOE NNSA Y-12 National Security Complex 301 Bear Creek Road Oak Ridge, TN 37831</b>		8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S) <b>CERCA Areva Romans Les Berauds - BP-1114 26104 Romans sur Isere France</b>		9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) <b>INSTITUT LAUE - LANGEVIN (ILL) High Flux Reactor (HFR) 6, rue Jules Horowitz BP 156 38042 Grenoble Cedex 9 France</b>	
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED <b>Supplier/Transportation</b>		8a. INTERMEDIATE USE(S) <b>Fuel Fabrication</b>		9a. ULTIMATE END USE(S) <b>Reactor Fuel Reload</b>	
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT <b>108.3 kg uranium-235 contained in maximum of 116.0 kg uranium, enriched to maximum of 93.35%, in the form of broken metal.</b>		10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) <b>116.0 kg U</b>		10b. MAX ENRICHMENT OR WGT % <b>93.35 %</b>	
				10c. MAX ISOTOPE WGT (KG) <b>108.3 kg</b> Rec'd	
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) <b>100% US Obligation</b>				<b>DEC 20 2010</b> JC	

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U.S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER <b>XSNM3633</b>	DOCKET NUMBER <b>11005854</b>	ADAMS ACCESSION NUMBER <b>ML103540454</b>	<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, OR RENEWALS**

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 <b>Becky G. Eddy DOE NNSA Y-12 Site Office, Program Manager</b>	18b. SIGNATURE -- AUTHORIZED OFFICIAL 	18c. DATE <b>12/14/2010</b>
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REC'D  
DEC 20 2010  
JC

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

LICENSE NUMBER <b>XSNM3633</b>	DOCKET NUMBER <b>11005854</b>	ADAMS ACCESSION NUMBER <b>ML103540454</b>	<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)

301 Bear Creek Road

Oak Ridge, TN 37931

TN International (Transporter)

As Agent for CERCA

1 Rue Des Herons

78180 Montigny Le

Bretonneux

France

Part B. 4 and 5: Dates do not reflect actual ship dates. Time-frame indicated for one shipment in 2012 to support fuel fabrication schedule and continued operation of HFR until replacement fuel is available. Shipment to be made using secure transport to be arranged by DOE.

Page 1, Block 8: CERCA means "Compagnie pour l'Etude et la Réalisation de Combustibles Atomiques"

8a. For use in the fabrication of standard HFR fuel elements.

9a. Used as fuel in the HFR reactor to operate the research reactor.

Rec'd  
DEC 20 2010  
JC



**U.S. Department of Energy**  
**National Nuclear Security Administration**  
Post Office Box 2050  
Oak Ridge, Tennessee 37831-8009



December 14, 2010

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

Dear Mr. Moore:

**EXPORT LICENSE APPLICATION FOR THE DEPARTMENT OF ENERGY SHIPMENT OF ENRICHED URANIUM TO INSTITUT LAUE LANGEVIN FOR USE IN THE HIGH FLUX REACTOR (XSNM3633)**

Reference is made to my March 3, 2010, letter, subject as above, and application XSNM3633 to export enriched uranium for use in the INSTITUT LAUE LANGEVIN High Flux Reactor (HFR).

Based on feedback received from a review of application XSNM3633 (DOE reference ILL-EU10), the United States Department of Energy (DOE) has updated the application for a license to export enriched uranium feedstock to the Compagnie pour l'Etude et la Réalisation de Combustibles Atomiques (CERCA) Romans fuel fabrication facility, and for subsequent transfer as enriched uranium reactor fuel reloads to the INSTITUT LAUE LANGEVIN (ILL) High Flux Reactor (HFR) located in Grenoble France (Enclosure 1). ILL's supporting information was also updated to more accurately reflect ILL current enriched uranium inventories, the time lines for manufacturing the ILL fuel reloads, and planned reactor operation (Enclosure 2). The quantity of enriched uranium requested has been reduced and the ship date has been extended through 2012. Please replace my application and the supporting information previously received by the Nuclear Regulatory Commission (NRC) on March 3, 2010, with the enclosed application and supporting information.

It has been determined that the export license application is unclassified, non-sensitive; however, Enclosure 2 provides supporting sensitive information provided by ILL that cannot be released to the public.

The proposed export is required to support continuing operations of the ILL HFR pending qualification of a replacement fuel. ILL is actively working with DOE to qualify low enriched uranium fuel to support conversion of the HFR reactor. In the interest of supporting continued operation of the HFR and its research program, the NNSA Y-12 Site Office requests that the review process be executed to support a delivery in early calendar year 2012.

XSNM3633 Rec'd

DEC 20 2010

JC

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

Sincerely,



Becky G. Eddy  
Program Manager  
Y-12 Site Office

Enclosures:

1. NRC Form 7 (ILL-EU10)
2. ILL Checklist (Supporting Information dated 3-NOV-2010)

cc w/enclosure:

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

cc w/o enclosure:

P. Kirby, Y12-10, YSO  
M. Livesay, Y12-10, YSO

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