

NRC FORM 7
(11-2012)
10 CFR 110

U. S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3160-0027

EXPIRES: (11/30/2016)

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 Information 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 MAR 11 2013 JC
LICENSE NUMBER XSNM 3622/02	DOCKET NUMBER 11006024	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 National Nuclear Security Administration 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 BR2-EU10-R2
	1c. PHONE NUMBER (865) 576-4119	1d. FAX NUMBER (865) 574-0492
	1e. E-MAIL ADDRESS becky.eddy@npo.doc.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: XSNM-3622/01) <input type="checkbox"/> CONSENT REQUEST (Parts B, C) (Current License Number:)		
3. CONTRACT NUMBER(S) NNSASC11Y120922	4. FIRST SHIPMENT DATE 06/01/2012	5. LAST SHIPMENT DATE 09/30/2012
6. PROPOSED EXPIRATION DATE 12/31/2013		

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 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) CERCA Areva Romans Les Berauds - BP-1114 26104 Romans sur Isere France	9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) STUDIECENTRUM VOOR KERNENERGIE (SCK-CEN) BR2 Reactor Boeretang 200 B-2400 MOL Belgium Institute for Radioelements (IRE) Avenue de l'Espérance 1 B-6220 Fleurus, Belgium	
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED Supplier/Transportation	8a. INTERMEDIATE USE(S) Fuel and Target Fabrication	9a. ULTIMATE END USE(S) Reactor Fuel & Mo-99 Production	
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS: FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT 87.3 kg uranium-235 contained in maximum of 93.5 kg uranium, enriched to maximum of 93.35%, in the form of broken metal. (Quantity previously shipped in 10/2010) 5.8 kg uranium-235 contained in maximum of 6.2 kg uranium, enriched to maximum of 93.20%, in the form of broken metal.	10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) 93.5 kg U 6.2 kgU	10b. MAX ENRICHMENT OR WGT % 93.35 % 93.20 %	10c. MAX ISOTOPE WGT (KG) 87.3 5.8
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) 100% US obligation			

APPROVED FOR PUBLIC RELEASE

This document has been approved for release to the public by

Scott A. Hawks *[Signature]* 3/6/13
NPO Y-12 Site Office Classification Officer Date

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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>XSNM3622/02</i>	DOCKET NUMBER <i>11006024</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 checked="" type="checkbox"/> NO
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 <i>3/6/2013</i>

MAR 11 2013
JC

NRC FORM 7

(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 XSNM3622/02	DOCKET NUMBER 11006024	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. 3: Contract Number NNSA--SC12-Y12-0402 (Belgium - IRE)

Part B. 4 and 5: Dates do not reflect actual ship dates. Time-frame indicated for shipments to support BR2 driver fuel reloads and target fabrication schedules, target irradiation and processing schedule to meet fuel and isotope production demand until conversion to LEU targets. Shipment via secure transport. BR-2 driver fuel supply (~ 87 kg U-235) shipped in 2010.

Page 1, Blocks 7 and 7a - Other Parties to the Export:

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

Page 1, Blocks 8 and 8a Other Foreign Intermediate Consignees:

TN International (Transporter)
As Agent for CERCA
1 Rue Des Herons
78180 Montigny Le
Bretonneux
France

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

Page 1, Block 8a - For use in fabrication of standard BR2 fuel elements and IRE targets used in the production of medical isotopes

Page 1, Blocks 8 and 8a Intermediate Foreign Consignees (specific IRE):

Used as targets irradiated in the following reactors for the production of medical isotopes:

BR-2 Research Reactor (Target Irradiation)

SCK-CEN

Boeretang 200

BE-2400 Mol

Belgium

HFR Research Reactor (Target Irradiation)

Nuclear Research and Consultancy Group (NRG)

Westerduinweg 3

1755 LE Petten

the Netherlands

OSIRIS Research Reactor (Target Irradiation)

Commissariat à l'Énergie Atomique (CEA) Saclay

F-91191 Gif-sur-Yvette

France

LVR-15 Research Reactor (Target Irradiation)

Nuclear Research Institute, plc

Husinec - Řež 130

Cz- 250 68 Řež

Czech Republic

Estimated percent targets fabricated distributed to reactors for irradiation: BR2 (35%); HFR (35 %); OSIRIS (20 %); LVR-15 (10 %)

MAR 11 2013

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



March 6, 2013

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

XSNM 3622/02

MAR 11 2013 JC

Dear Mr. Shaffer:

**APPLICATION TO AMEND EXPORT LICENSE XSNM-3622/01 TO ADD
INTERMEDIATE FOREIGN CONSIGNEE FOR ENRICHED URANIUM SUPPLIED
TO THE INSTITUTE FOR RADIOELEMENTS FOR USE IN THE PRODUCTION OF
MEDICAL ISOTOPES**

Enclosed is a Department of Energy (DOE), National Nuclear Security Administration (NNSA), application to amend export license XSNM-3622/01. The license amendment is required to add an intermediate foreign consignee involved in the production of the medical isotope Molybdenum-99 for the Institute for Radioelements (IRE). Export License XSNM-3622/01 was issued on September 6, 2012, to authorize export of enriched uranium feedstock for IRE to the Compagnie pour l'Etude et la Réalisation de Combustibles Atomiques (CERCA) Romans facility in France for use in the fabrication of targets and irradiation in the BR-2 Reactor in Belgium, the High Flux Reactor in the Netherlands, and OSIRIS Reactor in France. **This application requests that the LVR-15 Reactor in the Czech Republic be added as an intermediate foreign consignee where enriched uranium targets will be irradiated to support Molybdenum-99 production. There are no other changes in the application.**

The application to amend XSNM-3622/01, NRC Form 7, has been determined to be unclassified, non-sensitive. An Interagency Agreement between DOE and NRC was executed on April 15, 2009, for NRC export licensing services and fees, and sufficient funds are available for processing this export license.

IRE is actively working to implement a plan to convert to low enriched uranium targets used for medical isotope production. In the interest of supporting the production of medical isotopes, the NNSA Production Office requests that the review process be executed to support issuance of the export license in April 2013.

APPROVED FOR PUBLIC RELEASE	
This document has been approved for release to the public by:	
SCOTT A. HAWICKS <i>[Signature]</i>	3/6/13
NPO Y-12 Site Office Classification Officer	Date

Mark Shaffer

-2-

March 6, 2013

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
NNSA Production Office, Y-12

Enclosure:
NRC Form 7 (BR2-EU10-R2)

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

cc w/o enclosure:
P. Kirby, NPO-50

XS NM 3622/02

MAR 11 2013
JC