Page 1 of 3

APPLICATION FOR NRC E LICENSE, AMENDME OR CONSENT RI (See Instructions on	REGULATORY COM EXPORT OR IM ENT, RENEWAL EQUEST(S) Pages 4 and 5)	MISSION APPROVED Estimated burde submittal is re considerations a and Informatio Washington, DC Officer, Office Management ar collection does sponsor, and a	BY OMB: en per respo eviewed to are satisfied n Collectio C 2055-00 of Informat ad Budget, not display person is no	NO. 3150-0027 onse to comply with to onserve that the d. Send comments ons Branch (T-5 001, or by e-mail to 1 tion and Regulatory Washington, DC 20 a currently valid ON ot required to respon	his mandatory applicable s egarding burd 53), U.S. N nfocollects.Re: Affairs, NEC 503. If a meai IB control nurr d to, the inform	EXPIRES: 11/30, collection request: 2.4 hours statutory, regulatory, and len estimate to the FOIA, Pi Nuclear Regulatory Comm source@nrc.gov, and to the DB-10202, (3150-0027), Off ins used to impose an inforr ober, the NRC may not cond nation collection.	/2018 . This policy rivacy, ission, Desk ice of nation luct or
PART A. FOR NRC USE ONLY	X PUBLIC			DATE RECEIVED			
LICENSE NUMBER	DOCKET NUMBER	KET NUMBER		Adams accession number			
XSNM3810	11006361						
PART B. TO BE COMPLETED FOR (If more space is needed to complete	ALL LICENSE	S, AMENDMENTS se Pages 3-4 first, and	, REN	EWALS, OI	R CONS sheets, if r	ENT REQUEST	s
1. NAME AND ADDRESS OF APPLICANT/LICENSEE	1a. NAME	1a. NAME OF APPLICANT'S CONTACT		1b. APPLICANT'S REFERENCE NUMBER			-
U. S. Department of Energy (DOE)	Becky G	. Eddy		IRE-EU	J 1 9		
National Nuclear Security Administration (NNSA) ^{1c. PHONE}	ENUMBER		1d. FAX	NUMBER	574 0400	
Y-12 National Security Complex		(865) 576-4119			(865) 574-0492	
Oak Ridge, TN 37831	1e. E-MAIL Becky.E	. ADDRESS ddy@npo.doe.gov					
(Parts B, C, E) (Parts B,	, D, E)	Current License N	lumber:		Current I	License Number:	
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NRC FORM 7 (02-2016)				U. S. NUCLEAR REG	ULATORY COMMISSION		
10 CFR 110	AP	PLICATION FO	R NRC EXPORT OR	IMPORT			
LICEN	SE, AMENDI	MENT, RENEW	AL, OR CONSENT R	EQUEST(S) (Contin	nued)		
LICENSE NUMBER	DOCKET NU	IMBER	ADAMS ACCESSION NUMBER				
XSNM3810	11006	361					
PART D.	TO BE COM	PLETED FOR IMI	PORT LICENSES, AME	ENDMENTS, OR REN	EWALS		
(IT HIGH SPACE IS HEEDED TO COMP 12. NAME(S) / ADDRESS(ES) OF FOREIGN SUPPLIERS AND/OR OTHER PARTIES TO IMPORT		13. NAME(S) / ADDF CONSIGNEE(S)	RESS(ES) OF INTERMEDIATE	14. NAME(S) / ADDRESS(E CONSIGNEE(S)	S) OF ULTIMATE U. S.		
12a. NRC EXPORT LICENSE NUMBER(S) (if applicable)		13a. LICENSE NUM	13a. LICENSE NUMBER(S) / EXPIRATION DATE(S)		14a. LICENSE NUMBER(S) / EXPIRATION DATE(S)		
		13b. INTERMEDIATE	13b. INTERMEDIATE USE(S)		14b. ULTIMATE END USE(S)		
15. DESCRIPTION OF RADIOAC	TIVE MATERIALS.	SEALED SOURCES.	15a. MAX TOTAL VOLUME /	15b. MAX ENRICHMENT	15c, MAX ISOTOPE		
NUCLEAR FACILITIES			ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)	OR WGT %	WGT (KG)		
			× ,				
16. FOREIGN OBLIGATIONS (B)	COUNTRY AND B	Y PERCENTAGE OF MA	XIMUM TOTAL VOLUME)				
PART E. TO BE CO	MPLETED FO	OR ALL LICENSE	S, AMENDMENTS, RE	NEWALS OR CONSE	ENT REQUEST(S)		
17. ADDITIONAL INFORMA PROVIDED ON PAGES AND/OR ON SEPARATE	TION 3, 4, E SHEETS?	YES N	O 17a. COPIES OF REC AUTHORIZATIO	CIPIENTS'	YES NO		
18. CERTIFICATION:	l, the applicat with Title10, 0 of my knowle	nt's authorized off Code of Federal Re dge.	icial, hereby certify that egulations, and that all in	this application is prepartion is prepartion provided is	ared in conformity correct to the best		
18a. PRINT NAME AND TITLE O	F AUTHORIZED OF	FICIAL	18b. SIGNATURE AUTHOR	IZED OFFICIAL	18c. DATE		
DOE NNSA Production O	ffice, Program	Manager	R		07/31/2019		
		6	e	\geq			

Page 3 of 3

NRC FORM 7 (02-2016) 10 CFR 110

U. S. NUCLEAR REGULATORY COMMISSION

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

	DOCKET NUMBER	ADAMS ACCESSION NUMBER		OP	
XSNM3810	11006361			UK	
ADDITIONAL INFORMATION	N (Reference applicable block nu	mbers from page 1 and/or page 2 for	each entry)		
Part B. Blocks 4 and 5:					
Dates do not reflect actua processing schedules to m	l ship dates. Time-frame ind leet one year isotope product	icated for shipment to support tar ion demand until conversion to L	get fabrication, tar EU targets.	rget irra	diation and
Part C: Blocks 7 and 7a,	Suppliers and/or Other Partie	es to the Export:			
Consolidated Nuclear Sec 301 Bear Creek Road Oak Ridge, TN 37831 (DOE/NNSA Supply and	urity (CNS) L.L.C. Transport Contractor)				
Part C: Blocks 8 and 8a, I	ntermediate Foreign Consign	ee(s):			
ORANO TN International 1, rue des Hérons 78180 Montigny-le- Bretc France (Transporter)	onneux				
Studiecentrum Voor Kern Boeretang 200 BE-2400 Mol Belgium BR-2 Research Reactor (1	energie (SCK-CEN) `arget Irradiation)				
Nuclear Research and Cor Westerduinweg 3 1755 LE Petten The Netherlands HFR Research Reactor (T	nsultancy Group (NRG) arget Irradiation)				
Nuclear Research Institute Husinec - Řež 130 Cz- 250 68 Řež Czech Republic LVR-15 Research Reactor	e, Rez, plc (Target Irradiation)				
National Center for Nucles Andrzej Soltan 7 05-400 Otwock-Świerk Poland	ar Research (NCBJ)				



Department of Energy National Nuclear Security Administration Production Office



P.O. Box 2050 Oak Ridge, TN 37831 P.O. Box 30030 Amarillo, TX 79120

July 31, 2019

Mr. 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 ENRICHED URANIUM TO THE INSTITUTE FOR RADIOELEMENTS FOR USE IN THE PRODUCTION OF MEDICAL ISOTOPES

On behalf of the Institute for Radioelements (IRE), enclosed is a Department of Energy (DOE), National Nuclear Security Administration (NNSA) application to export enriched uranium to IRE for use in the production of medical isotopes. The enriched uranium will be exported to Framatome's facility in Romans, France for use in the fabrication of targets and subsequent target irradiation in the High Flux Research Reactor in the Netherlands, the BR-2 Reactor in Belgium, the LVR-15 Research Reactor in Czechia, and the Maria Research Reactor in Poland. The irradiated targets will be transferred to the IRE isotope production facility in Fleurus, Belgium, where Molybdenum-99 (Mo-99) and Iodine-131 (I-131) will be extracted to satisfy nuclear medicine demand.

This application covers the total estimated quantity of highly enriched uranium required by IRE to sustain Mo-99 and I-131 production from the 4th Quarter of 2020 through the projected completion of the LEU conversion program in the 2nd Quarter of CY 2022.

The application, NRC Form 7 (Enclosure 1), has been determined to be unclassified, nonsensitive. However, Enclosure 2 contains commercial proprietary information prepared by IRE that has been determined to be business sensitive and shall be handled as Official Use Only and cannot be made available to the public.

I respectfully request that NRC expedite the review process to minimize risk associated with interruption in IRE supply of isotopes to meet nuclear medicine demand.

Enclosure 2 Transmitted Herewith Contains Official Use Only - Commercial Proprietary Information. When Separated from Enclosure 2, this document is Unclassified/Nonsensitive and Approved for Public Release Mr. Skeen

APPLICATION TO EXPORT ENRICHED URANIUM TO THE INSTITUTE FOR RADIOELEMENTS FOR USE IN THE PRODUCTION OF MEDICAL ISOTOPES

If you have any questions or require additional information, please contact me at (865) 576-4119 or <u>becky.eddy@npo.doe.gov</u>.

Sincerely,

Becky G. Eddy Program Manager NNSA Production Office

Enclosures:1) NRC Form 7 (IRE-EU19)2) IRE Checklist (supporting information)

cc w/enclosures: B. Cox, NA-23, FOR/Portals III M. Einwechter, NPO-70, 301BCR B. Wilhoit, 301BCR, MS 8112, CNS, Y-12

OFFICIAL USE ONLY

July 31, 2019