


NRC FORM 7 (02-2016) 10 CFR 110		 U. S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0027		EXPIRES: 11/30/2018	
APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (See Instructions on Pages 4 and 5)							
PART A. FOR NRC USE ONLY			<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC			DATE RECEIVED 3/12/18	
LICENSE NUMBER XSNM 3791			DOCKET NUMBER 11006290			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 Idaho National Laboratory (INL) managed and operated by Battelle Energy Alliance, LLC (BEA), a contractor for the U.S. Department of Energy (DOE) 2525 N. Fremont Avenue Idaho Falls, ID 83415			1a. NAME OF APPLICANT'S CONTACT Alicia Wichmann / Peter B. Wells		1b. APPLICANT'S REFERENCE NUMBER INL NRC-1-2018		
			1c. PHONE NUMBER 2085264072		1d. FAX NUMBER		
			1e. E-MAIL ADDRESS alicia.wichmann@inl.gov / peter.wells@inl.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)		4. FIRST SHIPMENT DATE 7/27/2018		5. LAST SHIPMENT DATE 9/30/2018		6. PROPOSED EXPIRATION DATE 9/30/2022	
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 Westinghouse Electric Company (WEC) 1000 Westinghouse Drive, Suite 122 Cranberry Township, PA 16066 General Atomics (GA) 3550 General Atomics Court San Diego, CA 92121-1122			8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)			9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) Institute for Energy Technology (IFE) Os Alle 5 NO-1777 Halden, Norway	
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED Please refer to additional information page			8a. INTERMEDIATE USE(S)			9a. ULTIMATE END USE(S) Irradiate exp. fuel rods in Halden reactor;	
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)
UO2 (LEU)				0.3895 kg		UO2 7%	0.0273 kg
U3Si2 (LEU)				0.8627 kg		U3Si2 7%	0.0604 kg
UO2 (LEU)				0.6307 kg		UO5 7%	0.0315 kg
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)							

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(02-2016)
10 CFR 110

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

LICENSE NUMBER <i>X5.Wm3791</i>	DOCKET NUMBER <i>11006290</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) <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)	
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 Alicia Wichmann Idaho National Laboratory Sr. Export Compliance Analyst (Empowered Official)	18b. SIGNATURE -- AUTHORIZED OFFICIAL <i>Alicia Wichmann</i>
18c. DATE <i>1/23/2018</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>XS NM 3791</i>	DOCKET NUMBER <i>11006290</i>	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 C, BLOCK 7:

General Electric (GE)
GE Global Research
One Research Circle
Niskayuna, NY 12309

Oak Ridge National Laboratory (ORNL)
One Bethel Road
Oak Ridge, TN 37830

PART C, BLOCK 7a:

INL: 1) Fabricate U3Si2 fuel pellets and ship to GA, 2) load FeCrAl rods and Zirlo/Optimized ZIRLO rods and 3) ship loaded FeCrAl, Zirlo/Optimized ZIRLO rods and SiC rods to Halden;

GA: 1) Fabricate Silicon-Carbon (SiC) rods, 2) load SiC rods with U3Si2 pellets and 3) ship to INL;

WEC: 1) Fabricate UO2 pellets, 2) fabricate Zirconium (Zirlo and optimized ZIRLO) rods, 3) ship fuel and rods to INL;

ORNL: 1) Fabricate Iron-Chrome-Aluminum (FeCrAl) rods and 2) ship to INL;

GE: 1) Fabricate UO2 pellets and 2) ship to INL.

These shipments are made under the DOE Accident Tolerant Fuels program, part of the DOE Nuclear Technology Research & Development Advanced Fuels Campaign. It is expected that these exports will occur within several months of each other.

PART C, BLOCK 9a:

After irradiation, material will be packaged and shipped to a U.S. receiver (to-be-determined) for post irradiation examination.

PART C, BLOCK 10:

Approximate nuclear equipment values:

SiC rods: \$200.00 per rod

Zirlo rods: \$10.00/ft

Optimized ZIRLO rods: \$20.00/ft

FeCrAl rods: \$30.00/ft

Miscellaneous parts (springs/spacers/inst) \$200/rod