



NRC FORM 7 (07-2019) 10 CFR 110		U. S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0027	EXPIRES: 02/28/2022	
 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-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by 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 07/23/2021 JMS
License Number XSNM3822		Docket Number 11006422		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 Melissa Einwechter		1b. Applicant's Reference Number KU-EU21		
		1c. Office Telephone Number (865) 576-1989		1d. Office Facsimile Telephone Number (865) 576-1237		
		1e. Applicant's E-mail Address melissa.einwechter@npo.doe.gov				
2. Type of Action Requested (Check one)		<input checked="" type="checkbox"/> Export (Parts B, C, E)		<input type="checkbox"/> Amendment/Renewal Current License Number:		
		<input type="checkbox"/> Import (Parts B, D, E)		<input type="checkbox"/> Consent Request (Parts B, C) Current License Number:		
3. Contract Number(s) NNSA-SC21-Y12-0210		4. First Shipment Date 03/01/2022	5. Last Shipment Date 12/31/2026	6. Proposed Expiration Date 12/31/2026		
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 U. S. Suppliers and/or other U. S. 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) See Page 3		9. Name(s)/Address(es) of Ultimate Foreign Consignee(s) Kyoto University Research Reactor Institute (KURRI) 2, Asashito-Nishi Kumatori-cho, Sennan-gun Osaka 590-0494 Japan		
7a. Function(s) Performed/Service(s) Provided Supplier		8a. Intermediate Use(s) See Page 3		9a. Ultimate End Use(s) Fuel for KUCA Research Reactor		
10. Description of Radioactive Materials, Sealed Sources, Nuclear Facilities, Equipment, or Components; for Nuclear Equipment include Total Dollar Value of Equipment for Export 24.0 kg uranium-235 contained in maximum of 121.6 kg uranium, enriched to maximum of 19.95%, and in the form of either U3Si2-Al fuel plates or U7Mo fuel coupons.		10a. Maximum Total Volume/Element WGT (KG), or Total Activity (TBq) 121.6 KG	10b. Max Enrichment or WGT% 19.95%	10c. Max Isotope WGT (KG) 24.0 KG		
<div style="border: 2px solid black; padding: 5px; display: inline-block;"> <p>APPROVED FOR PUBLIC RELEASE This document has been approved for release to the public by: SCOTT A. HAWKS  7/8/2021 NPO Y-12 Site Office Classification Office Date</p> </div>						
11. Foreign origin (or obligations by country and, if known, by percentage of maximum total volume) USA - 100%; however, EURATOM is expected to apply obligations prior to the first shipment to Japan.						

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

License Number XSNM3822	Docket Number 11006422	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 Foreign Parties to Import	13. Name(s)/Address(es) of Foreign or U. S. 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. Maximum 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)

(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

17. Additional Information provided on pages 3, 4, and/or separate sheets? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	17a. Copies of Recipient's 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 Melissa Einwechter, Nuclear Materials Manager	18b. Signature – Authorized Official 	18c. Date 07/07/2021
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Additional Information (Reference applicable block numbers from page 1 and/or page 2 for each entry)

Part B: Blocks 4 and 5, First and Last Shipment Dates:

The dates specified in Blocks 4 and 5 delineate the allowable window for shipments, but not necessarily exact shipment dates.

Part C: Blocks 7 and 7a, Suppliers and/or Other Parties to the Export:

Consolidated Nuclear Security (CNS) L.L.C.
301 Bear Creek Road
Oak Ridge, TN 37831
(DOE/NNSA Supply Contractor)

Part C: Blocks 8 and 8a, Intermediate Foreign Consignee(s):

Framatome
54 Avenue De La Déportation
ZI Les Bérauds
26104 Romans Sur Isère,
France
(Fuel Fabricator)

Sojitz Machinery Corporation
6-11, Nishi-Shimbashi
1-chome, Minato-ku
Tokyo 105-0003
Japan
(Transporter)

TN Americas, LLC
7135 Minstrel Way Suite 300
Columbia, MD 21045
(Transporter)

Part C: Blocks 9a, Ultimate End Use(s):

The fuel will be used to reload the A, B, and C cores of the Kyoto University Critical Assembly (KUCA) research reactor, which is essential to the international effort to convert the KUCA research reactor from HEU to LEU.



**Department of Energy
National Nuclear Security Administration
Production Office**

Post Office Box 2050
Oak Ridge, Tennessee 37831

Post Office Box 30030
Amarillo, Texas 79120



July 7, 2021

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 KYOTO UNIVERISTY FOR
USE AS RESEARCH REACTOR FUEL FOR THE KYOTO UNIVERSITY CRITICAL
ASSEMBLY**

Enclosed is a Department of Energy/National Nuclear Security Administration (NNSA), application to export enriched uranium to Kyoto University (KU) for use as reactor fuel for the Kyoto University Critical Assembly (KUCA) located in Osaka, Japan. The enriched uranium (EU) is in the form of two types of reactor fuel: uranium silicide (U₃Si₂-Al) plates and uranium molybdenum (U₇Mo-Al) coupons.

Framatome is currently fabricating both fuel types at their CERCA facility in Romans, France using EU supplied by the NNSA under export license XSNM3783. There is no Type B shipping container authorized to ship the EU directly from France to Japan; therefore, the EU will be shipped from CERCA to the Y-12 National Security Complex in Oak Ridge, Tennessee for repackaging into Type B Shipping Containers authorized for use in both the United States and Japan. Export of this EU from the United States to Japan is essential to the international effort to convert the KUCA from High Enriched Uranium to Low Enriched Uranium fuel.

At the time of this application submittal, the EU only carries peaceful use obligations from the United States of America; however, the European Atomic Energy Community (EURATOM) is expected to apply obligations prior to shipping the EU from France to the United States.

The enclosed export license application (NRC Form 7) has been determined to be unclassified, non-sensitive and can be made available to the public.

**APPLICATION TO EXPORT ENRICHED URANIUM TO KYOTO UNIVERISTY FOR
USE AS RESEARCH REACTOR FUEL FOR THE KYOTO UNIVERSITY CRITICAL
ASSEMBLY**

If you have any questions or require additional information, please contact me at
(865) 576-1989 or melissa.einwechter@npo.doe.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Melissa Einwechter". The signature is fluid and cursive, with a large initial "M" and "E".

Melissa Einwechter
Program Manager

Enclosure:
NRC Form 7 (KU-EU21)

cc w/enclosure:
Jaci Dickerson, NA-231
Gabriel Pugh, NPO-01
Melissa Einwechter, NPO-70
Brent Wilhoit, CNS