


NRC FORM 7 (02-2016) 10 CFR 110		 U. S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0027		EXPIRES: 11/30/2018									
<p style="text-align: center;">APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (See Instructions on Pages 4 and 5)</p>								<p>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 FOIA, Privacy, and Information Collections Branch (T-5 F53), 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.</p>							
PART A. FOR NRC USE ONLY				<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC		DATE RECEIVED									
LICENSE NUMBER X50U8843				DOCKET NUMBER 11004271		JUL 27 2017 <i>JZF</i>									
<p style="text-align: center;">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.)</p>															
1. NAME AND ADDRESS OF APPLICANT/LICENSEE				1a. NAME OF APPLICANT'S CONTACT		1b. APPLICANT'S REFERENCE NUMBER									
MANUFACTURING SCIENCES CORPORATION 804 S. ILLINOIS AVENUE OAK RIDGE, TN 37830				JACK PETERS		MSC-X-17-1									
				1c. PHONE NUMBER		1d. FAX NUMBER									
				(865) 425-2808		(865) 481-3142									
				1e. E-MAIL ADDRESS											
				jpeters@gmisotope.com											
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		5. LAST SHIPMENT DATE		6. PROPOSED EXPIRATION DATE									
LT2017-29		11/1/2017		11/1/2022		12/30/2022									
<p style="text-align: center;">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.)</p>															
7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT				8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)		9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)									
MANUFACTURING SCIENCES CORPORATION 804 S. ILLINOIS AVENUE OAK RIDGE, TN 37830				NONE		KOREAN ATOMIC ENERGY RESEARCH INSTITUTE 111 DAEDEOK-DAERO 989 BEON-GIL YUSEONG-GU DAEJON 34057 KOREA									
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED				8a. INTERMEDIATE USE(S)		9a. ULTIMATE END USE(S)									
SOLID DU ROD				NONE		*see Additional Information Section									
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)								
5000 KG DEPLETED URANIUM SOLID METAL ROD				5000 KG		<0.07	5000 KG								
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)															
NONE															

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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 XSOU8843	DOCKET NUMBER 11006271	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.)

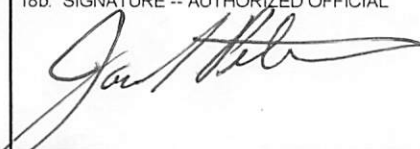
12. NAME(S) / ADDRESS(ES) OF FOREIGN SUPPLIERS AND/OR OTHER PARTIES TO IMPORT	13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S)	14. NAME(S) / ADDRESS(ES) OF ULTIMATE U. S. CONSIGNEE(S)	
12a. NRC EXPORT LICENSE NUMBER(S) (if applicable)	13a. LICENSE NUMBER(S) / EXPIRATION DATE(S)	14a. LICENSE NUMBER(S) / 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 checked="" 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 JACK PETERS Manufacturing Sciences Corporation Radiation Safety Officer	18b. SIGNATURE -- AUTHORIZED OFFICIAL 	18c. DATE 7/13/17
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ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

*9A: For research and development of metallic fuel for sodium-cooled fast reactor (SFR); Fabrication experiments of depleted uranium.

*18A: Manufacturing Sciences Corporation operates under Agreement State Authorization of State of Tennessee Source Material License S-01046-B20. Previous Export License for this similar material to Republic of Korea was XSOU 8825 which expired December 31, 2014.