


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, NE08-10202, (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 03/1/2021 JMS			
License Number PXB143.02		Docket Number 11006414		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 The Curators of the University of Missouri University of Missouri Research Reactor 1513 Research Park Drive Columbia, Mo 65211			1a. Name of Applicant's Contact Daniel Doenges		1b. Applicant's Reference Number N/A		
			1c. Office Telephone Number (573) 882-5204		1d. Office Facsimile Telephone Number (573) 882-6360		
			1e. Applicant's E-mail Address dddnq6@missouri.edu				
2. Type of Action Requested (Check one)		<input type="checkbox"/> Export (Parts B, C, E)		<input checked="" type="checkbox"/> Amendment/Renewal		Current License Number: PXB143.01	
		<input type="checkbox"/> Import (Parts B, D, E)		<input type="checkbox"/> Consent Request (Parts B, C)		Current License Number:	
3. Contract Number(s) N/A			4. First Shipment Date on going		5. Last Shipment Date May 31, 2026		6. Proposed Expiration Date May 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 N/A			8. Name(s)/Address(es) of Intermediate Foreign Consignee(s) SEE ADITIONAL SHEET			9. Name(s)/Address(es) of Ultimate Foreign Consignee(s) SEE ADITIONAL SHEET	
7a. Function(s) Performed/Service(s) Provided N/A			8a. Intermediate Use(s) Import and delivery			9a. Ultimate End Use(s) MEDICAL DEVICE	
10. Description of Radioactive Materials, Sealed Sources, Nuclear Facilities, Equipment, or Components; for Nuclear Equipment include Total Dollar Value of Equipment for Export Ir-192 solid metal, Byproduct Material				10a. Maximum Total Volume/Element WGT (KG), or Total Activity (TBq) SEE ADDITIONAL SHEET		10b. Max Enrichment or WGT% N/A	10c. Max Isotope WGT (KG) N/A
11. Foreign origin (or obligations by country and, if known, by percentage of maximum total volume) N/A							

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License Number PXB143.02	Docket Number 11006414	Adams Accession Number	<input checked="" type="checkbox"/> Public OR <input type="checkbox"/> Non-Public	
PART D. TO BE COMPLETED FOR IMPORT LICENSES, AMENDMENTS, OR RENEWALS <small>(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)</small>				
12. Name(s)/Address(es) of Foreign Suppliers and/or other Foreign Parties to Import N/A	13. Name(s)/Address(es) of Foreign or U. S. Intermediate Consignee(s) N/A	14. Name(s)/Address(es) of Ultimate U. S. Consignee(s) N/A		
12a. NRC Export License Number(s) (if applicable) N/A	13a. License Number(s) / Expiration Date(s) N/A	14a. License Number(s) / Expiration Date(s) N/A		
	13b. Intermediate Use(s) N/A	14b. Ultimate End Use(s) N/A		
15. Description of Radioactive Materials, Sealed Sources, Nuclear Facilities N/A	15a. Maximum Total Volume/ Element WGT (KG), or Total Activity (TBq) N/A	15b. Max Enrichment or WGT% N/A	15c. Max Isotope WGT (KG) N/A	
16. Foreign obligations (By country and by Percentage of Maximum Total Volume) N/A				
PART E. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS OR CONSENT REQUEST(S) <small>(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)</small>				
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 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 Daniel Doenges, Manager			18b. Signature -- Authorized Official Daniel Doenges Digitally signed by Daniel Doenges <small>Date: 2021.02.18 08:10:51 -06'00'</small>	
			18c. Date	

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Additional Information (Reference applicable block numbers from page 1 and/or page 2 for each entry)									
<p>8. ADDITIONAL INTERMEDIATE FOREIGN CONSIGNEES:</p> <p style="margin-left: 40px;">Kuehne + Nagel N.V. (Acting for Curium Netherlands B.V.) Lloydstraat 35 Rotterdam NL-3024 EA NETHERLANDS</p> <p>8a. INTERMEDIATE USES</p> <p style="margin-left: 40px;">Import into respective country and final delivery to ultimate consignee.</p> <p>9. ADDITIONAL ULTIMATE FOREIGN CONSIGNEES :</p> <p style="margin-left: 40px;">Curium Netherlands B.V. Westerduinweg 3 Petten 1755 ZG NETHERLANDS</p> <p>9a. FINAL USES</p> <p style="margin-left: 40px;">Manufacturing of the activated metal into medical device.</p> <p>10a. Maximum activity of Ir-192 (TBq):</p> <table style="margin-left: 40px; width: 80%;"> <tr> <td>Ultimate Consignee:</td> <td>Curium Netherlands B.V.</td> </tr> <tr> <td>Per Shipment:</td> <td>78 TBq</td> </tr> <tr> <td>Life of License (5 years)*:</td> <td>20280 TBq</td> </tr> </table> <p>*Assumes maximum of 52 shipments per year, each year for the life of the license.</p> <p>17a. Copies of Recipient's Authorization is provided prior to each shipment.</p>				Ultimate Consignee:	Curium Netherlands B.V.	Per Shipment:	78 TBq	Life of License (5 years)*:	20280 TBq
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University of Missouri

February 04, 2021

Deputy Director
Office of International Programs
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

NRC License PXB143.01

Enclosed you will find a completed Form 7, renewal application for Export License PXB143.01. The iridium-192 authorized for export by this license is used in the manufacture of a medical device for the treatment of cancer in humans. The University of Missouri Research Reactor has been providing this byproduct material to manufacturing facilities in Europe for over a decade.

If you have any questions concerning the application please contact Daniel Doenges at 573-882-5204 or dddng6@missouri.edu.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Robertson', with a long horizontal line extending to the right.

J. David Robertson, Executive Director
University of Missouri Research Reactor

Research Reactor Center

1513 Research Park Drive
Columbia, MO 65211

PHONE 573-882-4211
WEB murr.missouri.edu