

<b>NRC FORM 7</b> (8-2010) 10 CFR 110	<b>U.S. NUCLEAR REGULATORY COMMISSION</b>	<b>APPROVED BY OMB: NO. 3150-0027</b> 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 Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet 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.	<b>EXPIRES: 08/31/2012</b>
<b>APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, OR RENEWAL</b> (See Instructions on Pages 4 and 5)			

<b>PART A. FOR NRC USE ONLY</b>	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC	DATE RECEIVED <b>4-13-11</b>
LICENSE NUMBER <b>PXB143.01</b>	DOCKET NUMBER	ADAMS ACCESSION NUMBER

**PART B. TO BE COMPLETED FOR ALL 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.)

<b>1. NAME AND ADDRESS OF APPLICANT/LICENSEE</b>  <b>The Curators of the University of Missouri</b> <b>University of Missouri Research Reactor</b> <b>1513 Research Park</b> <b>Columbia, MO 65211</b>	<b>1a. NAME OF APPLICANT'S CONTACT</b> <p style="text-align: center;"><b>John Ernst</b></p>	<b>1b. APPLICANT'S REFERENCE NUMBER</b> <p style="text-align: center;">N/A</p>	<b>1c. PHONE NUMBER</b> <p style="text-align: center;">(573) 882-5226</p>	<b>1d. FAX NUMBER</b> <p style="text-align: center;">(573) 882-6360</p>
		<b>1e. E-MAIL ADDRESS</b> <p style="text-align: center;">ernstj@missouri.edu</p>		

**2. TYPE OF ACTION REQUESTED (Check One)**

EXPORT (Parts B, C, E)     
  IMPORT (Parts B, D, E)     
  AMENDMENT/RENEWAL  
 Existing License Number:  

**PXB143.00**

3. CONTRACT NUMBER(S) <p style="text-align: center;">N/A</p>	4. FIRST SHIPMENT DATE <p style="text-align: center;">05/04/2011</p>	5. LAST SHIPMENT DATE <p style="text-align: center;">05/04/2016</p>	6. PROPOSED EXPIRATION DATE <p style="text-align: center;">05/04/2016</p>
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**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.)

<b>7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT</b>  N/A	<b>8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)</b>  <b>DHL Global Forwarding NV/SA (Belgium) (Acting for MDS Nordion S.A.)</b> <b>Building 765</b> <b>B - 1931 Brucargo</b> <b>BELGIUM</b>  SEE ADDITIONAL SHEETS	<b>9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)</b>  <b>Best Medical Belgium S.A.</b> <b>Avenue de L'Esperance 1</b> <b>Fleurus 6220</b> <b>BELGIUM</b>  SEE ADDITIONAL SHEETS
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7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED <p style="text-align: center;">N/A</p>	8a. INTERMEDIATE USE(S) <p style="text-align: center;">Import and delivery</p>	9a. ULTIMATE END USE(S) <p style="text-align: center;">MEDICAL DEVICE</p>
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<b>10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT</b>  <b>Ir-192 solid metal</b>	<b>10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)</b>  See attached.	<b>10b. MAX ENRICHMENT OR WGT %</b>  N/A, no special nuclear material licensed	<b>10c. MAX ISOTOPE WGT (KG)</b>  N/A, no special nuclear material licensed
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**11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)**  
**Belgium, 32%; Netherlands, 68%**

*JWS*  
*4B-11*  
*WLR*

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U.S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER P-16743-01	DOCKET NUMBER	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  N/A	13. NAME(S) / ADDRESS(ES) OF 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. MAX 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, OR RENEWALS**

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	
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  Ralph A. Butler Director, Research Reactor Center	18b. SIGNATURE - AUTHORIZED OFFICIAL  	18c. DATE  04/12/2011

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4-13-11  
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U.S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER <b>PYB 143.01</b>	DOCKET NUMBER	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)

**8. ADDITIONAL INTERMEDIATE FOREIGN CONSIGNEES:**

**Kuehne + Nagel N.V. (Acting for Mallinckrodt Medical – dba Covidien Pharmaceuticals)**  
**Lloydstraat 35**  
**Rotterdam NL-3024 EA**  
**NETHERLANDS**

**8A. INTERMEDIATE USES**

Import into respective country and final delivery to ultimate consignee.

**9. ADDITIONAL ULTIMATE FOREIGN CONSIGNEES :**

**Mallinckrodt Medical – dba Covidien Pharmaceuticals**  
**Westerduinweg 3**  
**Petten 1755 ZG**  
**NETHERLANDS**

**9A. FINAL USES**

Manufacturing of the activated metal into medical device.

Maximum activity of Ir-192 (TBq):

Ultimate Consignee:	Best Medical Belgium S.A.	Mallinckrodt Medical
Per Shipment:	37 TBq	78 TBq
Life of License (5 years)*:	9620 TBq	20280 TBq

\*Assumes maximum of 52 shipments per year, each year for the life of the license.

*Jas  
Recd 4-13-11*

# UNIVERSITY *of* MISSOURI

## RESEARCH REACTOR CENTER

April 12, 2011

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

### Export License PXB143.00, EXPEDITED AMENDMENT

Enclosed you will find an application for a license amendment to export license, PXB143.00 issued to The Curators of the University of Missouri. The purpose of the amendment is to change the name of our consignee located in Belgium.

MDS Nordion SA, located in Belgium, has been purchased by another company and will be changing their name to Best Medical Belgium SA. The receiving location, isotope, activity and end use remain unchanged. We have been informed that the name change will take effect April 15, 2011 in their Belgian licensing system.

We will make one more export shipment on April 13, 2011 under current license conditions. Our next scheduled shipment to this consignee is May 4, 2011 at which time their name change will be in effect.

The material exported is used to manufacture medical devices for the treatment of cancer. Please expedite this amendment request so that critical patient treatments are not interrupted.

If you should have any questions regarding the content of our application, please contact John Ernst, our Associate Director for Regulatory Assurance, at (573)882-5226, or [ernstj@missouri.edu](mailto:ernstj@missouri.edu).

Sincerely,



Ralph A. Butler  
Director  
Research Reactor Center

