NRC FORM 7 (8-2010) 10 CFR 110 — U.S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, OR RENEWAL

(See Instructions on Pages 4 and 5)

APPROVED BY OMB: NO. 3150-0027 — EXPIRES: 08/31/2012

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PART A. FOR NRC USE ONLY	☑ PUBLIC OR ☐ NON-PUBLIC	DATE RECEIVED
		4-13-11
LICENSE NUMBER	DOCKET NUMBER	ADAMS ACCESSION NUMBER
PXB 143.01		

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.)

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

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)	4. FIRST SHIPMENT DATE	5. LAST SHIPMENT DATE	6. PROPOSED EXPIRATION DATE
N/A	**05/04/2011**	**05/04/2016**	**05/04/2016**

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	8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)	9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)
N/A	**DHL Global Forwarding NV/SA** **(Belgium) (Acting for MDS Nordion S.A.)** **Building 765** **B - 1931 Brucargo** **BELGIUM** **SEE ADDITIONAL SHEETS**	**Best Medical Belgium S.A.** **Avenue de L'Esperance 1** **Fleurus 6220** **BELGIUM** **SEE ADDITIONAL SHEETS**

7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED	8a. INTERMEDIATE USE(S)	9a. ULTIMATE END USE(S)
N/A	**Import and delivery**	**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	10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)	10b. MAX ENRICHMENT OR WGT %	10c. MAX ISOTOPE WGT (KG)
Ir-192 solid metal	**See attached.**	**N/A, no special nuclear material licensed**	**N/A, no special nuclear material licensed**

11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)

Belgium, 32%; Netherlands, 68%

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U.S. NUCLEAR REGULATORY COMMISSION

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LICENSE NUMBER	DOCKET NUMBER	ADAMS ACCESSION NUMBER	
PXB 143.01			☑ PUBLIC OR ☐ NON-PUBLIC

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)
N/A	N/A	N/A

12a. NRC EXPORT LICENSE NUMBER(S) *(if applicable)*	13a. LICENSE NUMBER(S) / EXPIRATION DATE(S)	14a. LICENSE NUMBER(S) / EXPIRATION DATE(S)
N/A	N/A	N/A
	13b. INTERMEDIATE USE(S)	14b. ULTIMATE END USE(S)
	N/A	N/A

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)
N/A	N/A	N/A	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?	17a. COPIES OF RECIPIENTS' AUTHORIZATIONS PROVIDED?
☑ YES ☐ NO	☑ YES ☐ NO

18. CERTIFICATION: I, the applicant's authorized official, hereby certify that this application is prepared in conformity with Title10, 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	18b. SIGNATURE – AUTHORIZED OFFICIAL	18c. DATE
Ralph A. Butler Director, Research Reactor Center	RA Butler	04/12/2011

JW
4-13-11

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XSB-143-01			

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.**

JNS
Rec'd 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.

Sincerely,

Ralph A. Butler
Director
Research Reactor Center

1513 Research Park Drive Columbia, MO 65211 Phone: 573-882-4211 Fax: 573-882-6360 Web: www.murr.missouri.edu

Fighting Cancer with Tomorrow's Technology