3

APPLICATION FOR LICENSE, AMENC	R NRC EX	R RENEWAL	Estimated burden per resp submittal is reviewed to er are satisfied. Send comn Services Branch (T-5 F53) or by internet e-mail to Information and Regulate Budget Washington DC	conse to comply with neure that the applia ments regarding b), U.S. Nuclear Re- infocollects.resourcy ory Affairs, NEOB 20503. If a means MB control number	th this mandatory collection request: 2.4 hours. This cable statutory, regulatory, and policy considerations urden estimate to the Records and FOIA/Privaci gulatory Commission, Washington, DC 20555-0001 rce@nrc.gov, and to the Desk Officer, Office of Hologov, (3150-0027), Office of Management and used to impose an information collection does not, the NRC may not conduct or sponsor, and a person	
PART A. FOR NRC USE ONLY LICENSE NUMBER PCB140.00		PUBLIC OR NON-PUBLIC DOCKET NUMBER		DATE RECEIVED SEP 2 3 2010 ADAMS ACCESSION NUMBER		
1. NAME AND ADDRESS OF APPLICANT/LICENSEE University of Maryland, Baltimore		1a. NAME OF APPLICANT'S CONTACT Paul James Demopoulos		1b. APPLICANT'S REFERENCE NUMBER MDE-07-014-01		
714 west Lombard Street Baltimore, Maryland 21201		1c. PHONE NUMBER (410) 706-6281		1d. FAX NUMBER (410) 706-1520		
		1e. E-MAIL AI	DDRESS			
(Parts B, C, E) EXPOR INCIDE RADIO	CATION OF RT OF	IMPORT (Parts B, D, E	COMBINED EXPO (Parts B, C, D, E)		AMENDMENT/RENEWAL Existing License Number:	
3. CONTRACT NUMBER(S)	4. FIRST SHIPM		5. LAST SHIPMENT DATE 02/28/2011		6. PROPOSED EXPIRATION DATE 07/31/2017	
			R COMBINED LICENS Pages 3-4 first, and then at		NDMENTS, OR RENEWALS al sheets, if necessary.)	
	led to complete		Pages 3-4 first, and then at ES) OF INTERMEDIATE	9. NAME(S)/FOREIGN Best Ther 413 Marc Ottawa, C K2K 0E4 Canada Ultimate I Best Ther sources fr	al sheets, if necessary.) ADDRESS(ES) OF ULTIMATE CONSIGNEE(S) ratronics h Road Ontario	
(If more space is need 7. NAME(S) / ADDRESS(ES) OF SUPPL	ded to complete	e any of the items, use 8. NAME(S) / ADDRESS(Pages 3-4 first, and then at ES) OF INTERMEDIATE	9. NAME(S)/FOREIGN Best Ther 413 Marc Ottawa, C K2K 0E4 Canada Ultimate I Best Ther sources fr	ADDRESS(ES) OF ULTIMATE CONSIGNEE(S) ratronics h Road Ontario End Use ratronics accepts return rom customers for inspection, recycling or reuse.	

U.S. NUCLEAR REGULATORY COMMISSION

NRC FORM 7 (3-2010) 10 CFR 110

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

PCB140.00 DOCKET NO	UMBER	ADAMS ACCESSION NUMBER	PUBLIC OR	NON-PUBLIC				
PART D. TO BE COMPLETED FOR IMPORT ONLY, OR COMBINED 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		ESS(ES) OF INTERMEDIATE	14. NAME(S) / ADDRESS(ES) OF ULTIMATE CONSIGNEE(S)					
Best Theratronics								
413 March Road								
Ottawa, Ontario				AND DESCRIPTION				
K2K 0E4								
Canada			Market Services					
NRC Export License Number								
12a. NRC EXPORT LICENSE NUMBER(S)	13a. LICENSE NUME	BER(S) / EXPIRATION DATE(S)	14a. LICENSE NUMBER(S) / EXPIRATION DATE(S)					
(if applicable)								
	13b. INTERMEDIAT		14b. ULTIMATE END USE(S)					
15. DESCRIPTION OF RADIOACTIVE MATERIALS NUCLEAR FACILITIES	s, SEALED SOURCES,	15a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR	15b. MAX ENRICHMENT OR WGT %	15c. MAX ISOTOPE WGT (KG)				
Cesium 137	TOTAL ACTIVITY (TBq) 112.8 TBq							
Sealed sources								
Chemical form: Element	36769							
Physical form: Solid Device: Gammacell 3000	56 T 69 (1,520 curies)							
16. FOREIGN OBLIGATIONS (BY COUNTRY AND	BY PERCENTAGE OF MA	XIMUM TOTAL VOLUME)						
PART E. TO BE CO	MPLETED FOR A	LL LICENSES, AMEND	MENTS, OR RENEW	IALS				
17. ADDITIONAL INFORMATION PROVIDED ON PAGES 3, 4, AND/OR ON SEPARATE SHEETS?	YES NO	17a. COPIES OF RECI AUTHORIZATION		YES NO				
18. CERTIFICATION: I, the applicant Code of Feder	's authorized official, al Regulations, and th	hereby certify that this applate all information provided	lication is prepared in co	onformity with Title10, my knowledge.				
18a. PRINT NAME AND TITLE OF AUTHORIZED OFFICIAL 18b. SIGNATURE AUTHORIZED OFFICIAL 18c. DATE								
Paul James Demopoulos		fal Janes	Dangels	8/9/2010				
			William William Towns					

NRC FORM 7 (3-2010) 10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

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

PCB140.00 DOCKET NUMBER ADAMS ACCESSION NUMBER PUBLIC OR NON-PUBLIC

ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

Check enclosed for \$4600.00 made out to US NRC.

Rec 8 SEP 2 3 2010

Baker, Stephen

From:

Demopoulos, Paul [pdemopoulos@af.umaryland.edu]

Sent:

Thursday, September 23, 2010 3:23 PM

0:

Baker, Stephen

Subject: Attachments: RE: Review of draft license PCB140.00 USNRC Import Export Gammacell 1000 and 3000.pdf

Dear Steve.

The 112.8 TBq Cs-137 value was from the directions that Best Theratronics provided that are attached. This is the maximum activity that can be loaded into the Gamma Cell 3000 model that we were ordering. The actual activity is 56 TBq that we will receive and we will return about 42 TBq Cs-137.

Hope this helps,

Thanks,

Paul

Paul J. Demopoulos, M.S., CHP Radiation Safety Officer - EHS University of Maryland at Baltimore 714 West Lombard Street Baltimore, MD 21201

Phone: 410-706-6281 ax: 410-706-8212

email: pdemopoulos@af.umaryland.edu

From: Baker, Stephen [mailto:Stephen.Baker@nrc.gov]

Sent: Thursday, September 23, 2010 03:00 PM

To: Demopoulos, Paul

Subject: RE: Review of draft license PCB140.00

SEP 2 3 2010

Paul:

Thanks for the reply.

I was reviewing your application and noticed that I had annotated the application where the activity of your sources were provided. Notably, on the export section, where you had indicated 112.8 TBq, I wrote '42 TBq,' and on the import section where it also read 112.8 TBq, I wrote '56 TBq.'

This is significant in that if either entry should have been 112.8 TBq, you would need a Category 1 authority, as 112.8 TBq exceeds the Category 2 threshold for Cs-137 of 100 TBq.

While I recall us talking about this and resolving it over the phone, for our records, please explain where the 112.8 TBq entry came from and why these figures were reduced on the application.

Thanks, Paul.

stephen Baker

U.S. Nuclear Regulatory Commission



09 May 2008

Subject:

Import and/or Export License Application for a Gammacell 1000 and

Gammacell 3000

To Whom It May Concern:

The US Nuclear Regulatory Commission has revised the import/exports regulations in 10 CFR 110 to remove the general license for the importation exportation of Cesium 137. Since December 28, 2005, a specific license is required to import or export quantities of Cesium 137 that exceed 1 TBq (27 Ci). Section 10 CFR 110.32 outlines the information required in the application for a specific license.

Best Theratronics now requires a copy of the import license prior to shipping a Gammacell 1000 or Gammacell 3000 to a customer situated in the United States. As well, Best Theratronics also requires a copy of the export license prior to shipping a source from a customer in the United States back to Canada.

The import or export application must be completed on the attached revised NRC Form 7. The application must be submitted along with the applicable fees.

Please refer to 10 CFR 170.31 for the complete and current list of fees for shipments to or from Canada.

Please note that the fees may not apply to non-profit educational institutions.

In cases of exports to Canada, licensees are also required to notify the Canadian Nuclear Safety Commission not less than 24 hours in advance of each shipment with the details required by 10 CFR 110.50 (b) (4). Notifications can be sent by fax or email to:

Canadian Nuclear Safety Commission Non-Proliferation and Export Controls Division 613-995-5086 fax export.import@cnsc-ccsn.gc.ca

SEP 2 3 2010

Information Required on NRC Form 7.

Part B.

- 1. Name and address of applicant.
 - This is your information.
- 2. Type of NRC License Requested.
 - To ship a returned Gammacell 1000/3000 to Best Theratronics, check the Export box.
 - To receive a Gammacell 1000/3000 from Best Theratronics, check the Import box.
 - To receive a Gammacell 1000/3000 and dispose of an old device check the Combined Export/Import box.
- 3. The Contract number box is not applicable.
- 4. The date of the anticipated shipment date.
- 5. The last shipment date should be at least six months from the anticipated shipment date. In the case of multiple Gammacell 1000/3000 orders over several months, provide the anticipated last shipment date.
- 6. The date of your license expiry.

Part C – To be completed for Exports from the United States

- 7. Unless there is another party involved in returning the Gammacell 1000/3000 this box should be left empty.
- 8. This box should be left empty.
- 9. Enter: Best Theratronics

413 March Road

Ottawa, Ontario

K2K 0E4

Canada

Ultimate End Use

- Best Theratronics accepts return sources from customers for inspection, disposal, recycling or reuse.
- 10. Description of the sealed sources
 - Cesium 137
 - Sealed sources
 - Chemical form: Element
 - Physical form: Solid
 - Device: Gammacell 1000 or Gammacell 3000

Total Activity

- Activity of the decayed sources.
- 11. This box does not apply.

Recd SEP 2 3 2010

JC

Part D - To be completed for Import into the United States

12. Enter: Best Theratronics

413 March Road Ottawa, Ontario

K2K 0E4 Canada

NRC Export License Number

- Applies to sources originally exported under a specific NRC license. In most cases there is no export license number.
- 13. This box should be left empty.
- 14. Complete this box only if the consignee is not the same as in box 1.
- 15. Description of the sealed sources
 - Cesium 137
 - Sealed sources
 - Chemical form: Element
 - Physical form: Solid
 - Device is the Gammacell 1000 or Gammacell 3000

Total Activity

- Maximum activity of Gammacell 1000 is 112.8 TBq (3048Ci).
- Maximum activity of Gammacell 3000 is 112.8 TBq (3048 Ci).
- 16. This box does not apply.

Part E

- 17. Additional Information.
 - For exports shipment to Best Theratronics, attach a copy of Best Theratronics' license.
- 18. Please complete.

The import permit application should be sent to the following location:

Mr. Scott Moore,

Deputy Director

Office of International Programs

Mail Stop: 4E21

U.S. Nuclear Regulatory Commission

One White Flint North

11555 Rockville Pike

Rockville, Maryland

20852-2738

Rec'd SEP 2 3 2010

Should you have any questions or require further information, please do not hesitate to contact customer service by telephone at (613) 591-2100 ext. 1090 or by fax at (613)

592-6627.

Rec'l SEP 2 3 2010 IC