

NRC FORM 7

(8-2007)  
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0027

EXPIRES: 06/30/2009

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

(See Instructions on Page 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 Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [infocollects@nrc.gov](mailto:infocollects@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>PART A. FOR NRC USE ONLY</b>	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC	DATE RECEIVED <b>8/23/2019 JMS</b>
LICENSE NUMBER <b>XMAT453</b>	DOCKET NUMBER <b>11006365</b>	ADAMS ACCESSION NUMBER

**PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS OR NOTIFICATIONS**

(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  <b>Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA. 01810</b>	1a. NAME OF APPLICANT'S CONTACT <b>Gary Ionta</b>	1b. APPLICANT'S REFERENCE NUMBER
	1c. PHONE NUMBER <b>(978) 749-8000</b>	1d. FAX NUMBER <b>(978) 749-2768</b>
	1e. E-MAIL ADDRESS <b>garyi@isotope.com</b>	
2. TYPE OF ACTION REQUESTED (Check One) <input checked="" type="checkbox"/> EXPORT (Parts B, C, E) <input type="checkbox"/> NOTIFICATION OF EXPORT OF INCIDENTAL RADIOACTIVE MATERIAL (PART C, E) <input type="checkbox"/> IMPORT (Parts B, D, E) <input type="checkbox"/> COMBINED EXPORT/IMPORT (Parts B, C, D, E) <input type="checkbox"/> AMENDMENT/RENEWAL Existing License Number: _____		
3. CONTRACT NUMBER(S)	4. FIRST SHIPMENT DATE <b>11/01/2019</b>	5. LAST SHIPMENT DATE <b>11/30/2024</b>
		6. PROPOSED EXPIRATION DATE <b>11/01/2024</b>

**PART C. TO BE COMPLETED FOR EXPORT 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.)

7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT  <b>Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA. 01810</b>	8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)	9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)  <b>Belgium</b>	
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED <b>Supplier/Distributor</b>	8a. INTERMEDIATE USE(S) <b>See Page 3</b>	9a. ULTIMATE END USE(S) <b>See Page 3</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>Non-radioactive Deuterium gas Deuterium oxide Deuterium compounds</b>	10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)  <b>10,000 kg- 90% as deuterium oxide, remaining as gas and compounds.</b>	10b. MAX ENRICHMENT OR WGT %  <b>99.99%</b>	10c. MAX ISOTOPE WGT (KG)  <b>N/A non-radioactive material, not radioactive waste</b>
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)			

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

LICENSE NUMBER <b>XMAT453</b>	DOCKET NUMBER <b>11006365</b>	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC <b>OR</b> <input type="checkbox"/> NON-PUBLIC
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### 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	13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S)	14. NAME(S) / ADDRESS(ES) OF ULTIMATE CONSIGNEE(S)
12a. NRC EXPORT LICENSE NUMBER(S) <i>(if applicable)</i>	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, 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 type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<b>18. CERTIFICATION:</b> 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  <b>Gary Ionta</b> <b>Export Compliance Officer</b>	18b. SIGNATURE -- AUTHORIZED OFFICIAL  <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <b>Gary Ionta</b> </div> <div style="font-size: small; margin-left: 10px;">           Digitally signed by Gary Ionta            DN: cn=Gary Ionta, o=Cambridge Isotope Laboratories Inc., ou,            email=garyi@isotope.com, c=US            Date: 2019.08.20 07:39:05 -04'00'         </div> </div>
	18c. DATE  <b>08/20/2019</b>

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

**NRC 7. Part C. 9a.- Ultimate end use(s)**

**Cambridge Isotope Laboratories, Inc. plan to sell the various deuterium compounds to intermediate and ultimate consignees (listed in Part C. 9., C.9a) for further distribution into the Belgium medical, pharmaceutical, chemical and industrial markets. Their customers in Belgium typically use these materials in relatively small quantities, (less than 1 Kg) for scientific research. This type of research may include identification of chemicals in reaction pathways, metabolic studies, or environmental analysis. No material will be used in any activity related to isotope separation, heavy water production, or in the fabrication of nuclear fuel.**



## Cambridge Isotope Laboratories, Inc.

50 Frontage Road, Andover, MA 01810-5413 USA

PH: 800.322.1174 (N. AMERICA) PH: 978.749.8000

FAX: 978.749.2768 WEB: [www.isotope.com](http://www.isotope.com)

August 14, 2019

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

Regarding New Specific License for Belgium

Dear Deputy Director:

Please accept this packet for your review which includes two versions of the NRC form 7 for the application of a specific license for deuterium oxide, deuterium gas and deuterium compounds. Also included is an affidavit explaining the reasons why we would request exclusion of information from the public per 10 CFR 2.390.

If you have any questions, please contact me at your convenience.

Sincerely,

Gary J. Ionta  
EH&S Officer/Export Compliance Officer  
Cambridge Isotope Laboratories Inc.  
50 Frontage Road  
Andover, MA. 01810  
(978) 296-1924  
[garyi@isotope.com](mailto:garyi@isotope.com)

Attachments:

- 1) 2 copies of the amended form 7
- 2) Affidavit per 10 CFR 2.390