

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)							
PART A. FOR NRC USE ONLY			<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC			DATE RECEIVED FEB 18 2016	
LICENSE NUMBER XMAT 436			DOCKET NUMBER 11006225			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 Cambridge Isotope Laboratories, Inc. 50 Frontage Road, Andover, MA. 01810			1a. NAME OF APPLICANT'S CONTACT Gary Ionta		1b. APPLICANT'S REFERENCE NUMBER		
			1c. PHONE NUMBER (978) 749-8000		1d. FAX NUMBER (978) 749-2768		
			1e. E-MAIL ADDRESS garyi@isotope.com				
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 03/01/2016		5. LAST SHIPMENT DATE 03/01/2021		6. PROPOSED EXPIRATION DATE 03/01/2021	
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 Cambridge Isotope Laboratories, Inc. 50 Frontage Road, Andover, MA. 01810			8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)			9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)	
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED Supplier/Distributor			8a. INTERMEDIATE USE(S) See Page 3			9a. ULTIMATE END USE(S) See Page 3	
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT Non-radioactive Deuterium gas Deuterium oxide Deuterium compounds				10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) 10,000 kg - 90% as deuterium oxide, remainder as gas and compounds.		10b. MAX ENRICHMENT OR WGT % 99.99%	10c. MAX ISOTOPE WGT (KG) N/A non-radioactive material, not radioactive waste
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)							

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U.S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER XNAT 434	DOCKET NUMBER 11004225	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 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.)

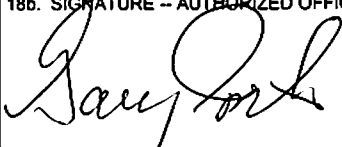
12. NAME(S) / ADDRESS(ES) OF FOREIGN SUPPLIERS AND/OR OTHER PARTIES TO IMPORT	13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S)	14. NAME(S) / ADDRESS(ES) OF ULTIMATE CONSIGNEE(S)	
12a. NRC EXPORT LICENSE NUMBER(S) <i>(if applicable)</i>	13a. LICENSE NUMBER(S) / EXPIRATION DATE(S)	14a. LICENSE NUMBER(S) / 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
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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 Gary Ionta Export Compliance Officer	18b. SIGNATURE -- AUTHORIZED OFFICIAL 	18c. DATE 2/5/2016
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FEB 18 2016

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

LICENSE NUMBER XMAT436	DOCKET NUMBER 11006225	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)

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 South Korea medical, pharmaceutical, chemical and industrial markets. Their customers in South Korea 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.

FEB 18 2016



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

February 5, 2016

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

Dear Deputy Director:

Enclosed please find two completed NRC Export License application (form 7's) one public, one non public disclosure for the export of deuterium gas, deuterium oxide and deuterium compounds and an affidavit explaining the reasons for an exclusion of information per 10 CFR 2.390

These license applications are country specific for Denmark. A fee of \$9400.00 has been assigned Mr. Stephen Baker which has been included in this submission.

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



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AFFIDAVIT PURSUANT TO 10CFR 2.390

I, Maureen Duffy, Vice President of Sales and Marketing of Cambridge Isotope Laboratories (CIL) hereby affirm and state

1. I have been specifically delegated the function of reviewing the proprietary information sought to be withheld from CIL's specific license application for export to Denmark and am authorized to apply for its withholding on behalf of CIL.
2. CIL is providing NRC with the list of our customers in Denmark as part of the application process for the specific license to export. The list is proprietary commercial information.
3. The information sought to be withheld pursuant to the provisions of paragraph (a) (4) of 10 CFR 2.390 is the list of customers which are marked as follows in the license application submissions "Proprietary information submitted under 10 CFR 2.390 to be withheld from public disclosure under 10 CFR 2.390".
4. The list of customers should be held in confidence by the NRC based on paragraph (b) (4) of 10 CFR 2.390 because:
 - i) This information is and has been held in confidence by CIL.
 - ii) This information is of a type that is customarily held in confidence by CIL and there is a rational basis for doing so because this information if released might result in the loss of an existing competitive advantage as follows:
 - a. The information reveals the list of who CIL does business within Qatar.
 - b. The information, if used by a competitor, is likely to result in an advantage to the competitor revealing who is likely to be interested in their competing products.
 - iii) This information is being transmitted to the NRC voluntarily and in confidence.
 - iv) This information that specific customers are doing business with CIL is not in public sources.
 - v) Public disclosure of this information is likely to cause substantial harm to the competitive position of CIL because of the reasons outlined below:
 - a. Similar products are manufactured and sold by competitors to CIL



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- b. The disclosure of CIL customers to competitors could result in competitors pursuing business CIL currently has. It is my belief that a competitor would have to undertake considerable effort and expense to generate the contacts and business held by CIL.
 - c. In order to generate such information, a competitor would also require considerable time.
 - d. If a competitor used this information and did not have to undertake the work required to generate these sales leads they are likely to have easier access to provide competitive offers to take business from CIL.
5. Accordingly, CIL requests that the designated information be withheld from public disclosure pursuant to paragraph (a)(4) of CFR 10.2390.

Executed on

2/5/2016

Maureen Duffy
Vice President of Sales and Marketing