

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, 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.

| | | |
|-------------------------------------|---|--|
| PART A. FOR NRC USE ONLY | <input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC | DATE RECEIVED JUN 04 2014 <i>Rec'd JC</i> |
| LICENSE NUMBER XMAT426/01 | DOCKET NUMBER 11006063 | 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.)

| | | |
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| 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 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 checked="" type="checkbox"/> AMENDMENT/RENEWAL Existing License Number: XMAT426 | | |
| 3. CONTRACT NUMBER(S) | 4. FIRST SHIPMENT DATE 06/01/2014 | 5. LAST SHIPMENT DATE 12/01/2018 |
| | | 6. PROPOSED EXPIRATION DATE 12/01/2018 |

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) | 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 |

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| 11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) | JUN 04 2014 <i>Rec'd JC</i> |
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LICENSE, AMENDMENT, OR RENEWAL (Continued)**

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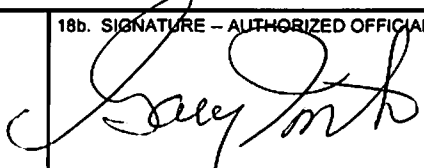
PART D. TO BE COMPLETED FOR IMPORT ONLY, OR COMBINED LICENSES, AMENDMENTS, OR RENEWALS
(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

| | | | |
|--|---|--|---------------------------|
| 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) (if applicable) | 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

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| 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.

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|---|---|--------------------------|
| 18a. PRINT NAME AND TITLE OF AUTHORIZED OFFICIAL Gary Ionta Export Compliance Officer | 18b. SIGNATURE -- AUTHORIZED OFFICIAL  | 18c. DATE 5/30/14 |
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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 United Arab Emirates medical, pharmaceutical, chemical and industrial markets. Their customers in United Arab Emirates 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.

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Cambridge Isotope Laboratories, Inc.

50 Frontage Road, Andover, MA 01810-5411 USA
PH: 800.322.1174 (N. AMERICA) PH: 978.749.8000
FAX: 978.749.2768 WEB: www.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 XMAT426 amendment and am authorized to apply for its withholding on behalf of CIL.
2. CIL is providing NRC with the list of our customers in the United Arab Emirates as part of CIL's amendment to specific license XMAT426. The list is proprietary commercial information.
3. The information sought to be withheld pursuant to the provisions of paragraph (a) (4) of 10 CFS 2.390 is the list of customers which are marked as follows in the XMAT426 amendment 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 with in the United Arab Emirates.
 - 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.



Cambridge Isotope Laboratories, Inc.

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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 May 27, 2014

Maureen Duffy
Maureen Duffy
Vice President of Sales and Marketing