Page	1	of
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						Page 1 of	
NRC FORM 7 (8-2009) 10 CFR 110 APPLICATION FOR NRC EX LICENSE, AMENDMENT, C (See Instructions on Page)	(PORT/I OR REN	IMPORT	APPROVED BY OME Estimated burden per responding in the satisfied. Send come services Branch (T-5 F53 or by internet e-mail to Information and Regulator Washington, DC 20503. It currently valid OMB contrequired to respond to, the	conse to comp nsure that the ments regard i), U.S. Nuclea infocollects.r y Affairs, NEO f a means use of number, th	oly with this mandatory applicable statutory, no burden estimate ar Regulatory Commis esource@nrc.gov, a B-10202, (3150-0027) d to impose an informe NRC may not condi-	egulatory, and policy or to the Records and F ssion, Washington, DC and to the Desk Offici , Office of Management mation collection does	hours. Thi onsideration OIA/Privac 20555-000 er, Office of t and Budge not display
PART A. FOR NRC USE ONLY	✓ PU	BLIC OR [NON-PUBLIC	DATE RE		2 9 2016 5	F
LICENSE NUMBER	DOCKET NU	JMBER		ADAMS A	CCESSION NUM		
XMAT422/02			5997				
PART B. TO BE COMPLETED F	OP ALL			PENEW	VI & OB NO.	TIEICATIONS	
(If more space is needed to complet	e any of the	items, use Pages	3-4 first, and then at	tach additi	onal sheets, if n	ecessary.)	•
1. NAME AND ADDRESS OF APPLICANT/LICENSEE	1	a. NAME OF APPLI	CANT'S CONTACT	1b. APPLICANT'S REFERENCE NUMBE		ER	
Cambridge Isotope Laboratories Inc.		G	ary Ionta	2			
50 Frontage Road	1	c. PHONE NUMBER	3	1d.	FAX NUMBER		
Andover, MA. 01810		(978	3) 749-8000		(978)	749-2768	
	1	le. E-MAIL ADDRES	S				
			garyi	i@isotop	e.com		
2. TYPE OF ACTION REQUESTED (Check One) EXPORT NOTIFICATION OF EXPORT OF INCIDENTAL RADIOACTIVE MATERIAL (PART C,	(Pa	PORT arts B, D, E)	COMBINED EXPO (Parts B, C, D, E)	RT/IMPO	Exist	NDMENT/RENE ing License Num (MAT 422	
3. CONTRACT NUMBER(S) 4. FIRST SHIP	MENT DATE	5. LA	AST SHIPMENT DATE		6. PROPOSE	D EXPIRATION DA	ATE
0	1/11/2017		01/01/2022		1	01/10/2022	
PART C. TO BE COMPLETED FOR E (If more space is needed to complet							NALS
7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT		/ ADDRESS(ES) OF I CONSIGNEE(S)	INTERMEDIATE		S) / ADDRESS(ES GN CONSIGNEE(
Cambridge Isotope Laboratories, Inc.							
50 Frontage Road							
Andover, MA. 01810							
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED	8a. INTERMED	DIATE USE(S)		9a. ULTIMA	ATE END USE(S)		
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEA NUCLEAR FACILITIES, EQUIPMENT, OR COMPON NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR EQUIPMENT FOR EXPORT	ENTS; FOR	ELE	(TOTAL VOLUME / MENT WGT (KG), OR AL ACTIVITY (TBq)		ENRICHMENT VGT %	10c. MAX ISOTO WGT (KG)	PE
Non-radioactive,		10,000	Kg	99.99%	,	N/A,	
Deuterium gas			- TAGE			Non- radioa	ctive
Deuterium oxide						material, No	
Deuterium compounds						radioactive v	vaste.

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

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NRC FORM 7 U.S. NUCLEAR REGULATORY COMMISSION (8-2009) 10 CFR 110 APPLICATION FOR NRC EXPORT/IMPORT LICENSE, AMENDMENT, OR RENEWAL (Continued) LICENSE NUMBER DOCKET NUMBER ADAMS ACCESSION NUMBER **V** PUBLIC NON-PUBLIC OR XMAT422 100599 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 13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE 14. NAME(S) / ADDRESS(ES) OF ULTIMATE SUPPLIERS AND/OR OTHER PARTIES CONSIGNEE(S) CONSIGNEE(S) TO IMPORT 12a. NRC EXPORT LICENSE NUMBER(S) 13a. LICENSE NUMBER(S) / EXPIRATION DATE(S) 14a. LICENSE NUMBER(S) / EXPIRATION DATE(S) (if applicable) XMAT422 13b. INTERMEDIATE USE(S) 14b. ULTIMATE END USE(S) 15. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, 15a. MAX TOTAL VOLUME / 15b. MAX ENRICHMENT 15c. MAX ISOTOPE NUCLEAR FACILITIES ELEMENT WGT (KG), OR OR WGT % WGT (KG) TOTAL ACTIVITY (TBq) 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 17a. COPIES OF RECIPIENTS' PROVIDED ON PAGES 3, 4, ✓ YES NO YES ✓ NO AUTHORIZATIONS PROVIDED? AND/OR ON SEPARATE SHEETS? I, the applicant's authorized official, hereby certify that this application is prepared in conformity with Title10, 18. CERTIFICATION: 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 Gary Ionta, **Export Control Officer**

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NRC FORM 7

(8-2009) 10 CFR 110 U.S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER	DOCKET NUMBER	ADAMS ACCESSION NUMBER	₩ PUBLIC	OR NON-PUBLIC
XMAT422/02	11005997		LA POBLIC	OK [] NON-POBLIC

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

Cambridge Isotope Laboratories, Inc. plan to sell the various deuterium compounds to the intermediate and ultimate consignees (listed in Part C. 8. and Part C.9) for further distribution into the China medical, pharmaceutical, chemical and industrial markets. Their customers in China typically use these materials in relatively small quantities, (less that 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.