

NRC FORM 7 (8-2007) 10 CFR 110		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0027 <small>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.</small>		EXPIRES: 06/30/2009	
APPLICATION FOR NRC EXPORT/IMPORT LICENSE, AMENDMENT, OR RENEWAL <i>(See Instructions on Page 5)</i>							
PART A. FOR NRC USE ONLY		<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC		DATE RECEIVED MAY 02 2013 <i>JC</i>			
LICENSE NUMBER XMAT428		DOCKET NUMBER 11006093		ADAMS ACCESSION NUMBER			
PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS OR NOTIFICATIONS <small>(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)</small>							
1. NAME AND ADDRESS OF APPLICANT/LICENSEE LINDE GAS NORTH AMERICA LLC 575 MOUNTAIN AVE MURRAY HILL NJ 07974		1a. NAME OF APPLICANT'S CONTACT REBECCA DABKOWSKI		1b. APPLICANT'S REFERENCE NUMBER 			
		1c. PHONE NUMBER (908) 329-9742		1d. FAX NUMBER (908) 329-9740			
		1e. E-MAIL ADDRESS REBECCA.DABKOWSKI@LINDE.COM					
2. TYPE OF ACTION REQUESTED <i>(Check One)</i> <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 05/15/2013		5. LAST SHIPMENT DATE 12/31/2018		6. PROPOSED EXPIRATION DATE 12/31/2018	
PART C. TO BE COMPLETED FOR EXPORT ONLY OR COMBINED LICENSES, AMENDMENTS, OR RENEWALS <small>(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)</small>							
7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT LINDE ELECTRONICS AND SPECIALTY GASES, A DIVISION OF LINDE GAS NORTH AMERICA LLC 11 TRIANGLE DRIVE RESEARCH TRIANGLE PARK, NC 27709		8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)		9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) ONTARIO POWER GENERATION 889 BROCK ROAD- P824B2 PICKERING, ONTARIO, L1W 3J2			
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED LINDE PRODUCTION SITE		8a. INTERMEDIATE USE(S)		9a. ULTIMATE END USE(S) see additional information			
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT D2O, DEUTERIUM OXIDE (Heavy Water)		10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) 1,000,000 KG		10b. MAX ENRICHMENT OR WGT % 99.85%		10c. MAX ISOTOPE WGT (KG)	
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)							
						MAY 02 2013 <i>JC</i>	

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U.S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER XMAT428	DOCKET NUMBER 11006093	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) (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

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
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 REBECCA DABKOWSKI EXPORT COMPLIANCE NORTH AMERICA	18b. SIGNATURE -- AUTHORIZED OFFICIAL <i>Rebecca Dabkowski</i>
18c. DATE 04/30/2013	

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LICENSE, AMENDMENT, OR RENEWAL (Continued)

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

BLOCK 9a -

OPG IS ONE OF OUR RAW MATERIAL SUPPLIERS OF HEAVY WATER USED TO PRODUCE DEUTERIUM GAS. GAS IS USED TO SATISFY COMMERCIAL DEMANDS IN SEMICONDUCTOR ANNEALING, FIBER OPTIC CABLE PRODUCTION, LIGHTING, LASER, AND RESEARCH APPLICATIONS.

LICENSE IS NEEDED TO RETURN A LARGE QUANTITY OF NON-CONFORMING MATERIAL BACK TO SUPPLIER FOR REPLACEMENT.

MAY 02 2013

JC

Linde Electronics & Specialty Gases LLC
1 Greenwich Street, Suite 100
Stewartsville, NJ 08886

April 30, 2013

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908 329 9700
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Office of International Programs
United States Nuclear Regulatory Commission
11555 Rockville Pike
Rockville MD 20852

Attn: Ms. Janice Owens, Acting Director
Ph: 301-415-3684

Subject: OPG D₂O Export to Linde Gas North America

X MAT 428

MAY 02 2013

JC

Dear Ms. Owens,

Linde Electronics and Specialty Gases purchases D₂O (heavy water) from Ontario Power Generation to convert to Deuterium. The Deuterium gas is supplied 4 major commercial markets (Semiconductor, Fiber Optic, Lighting, and Laser) with a small amount of product being provided for general scientific research.

As instructed by your office last week, I am writing to request expedited processing of the enclosed license application. We (Linde Gas North America) urgently need to return non conforming material back to our supplier, OPG Canada for replacement. As you are aware, the supply of Heavy Water is extremely limited and lead times to obtain materials is lengthy.

We are the exclusive provider of deuterium to major semiconductor companies who will be adversely impacted without immediate replacement of the non-conforming material.

Thank you in advance for your consideration. Please feel free to contact me should you need additional information or with any questions.

Kind regards,

Rebecca Dabkowski

Rebecca Dabkowski
Trade Compliance Manager- ESG
Linde Electronics and Specialty Gases
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Email: rebecca.dabkowski@linde.com