

**NRC FORM 7**  
(07-2019)  
10 CFR 110



**U. S. NUCLEAR REGULATORY COMMISSION**

**APPLICATION FOR NRC EXPORT OR IMPORT  
LICENSE, AMENDMENT, RENEWAL,  
OR CONSENT REQUEST(S)**  
(See Instructions on Pages 4 and 5)

**APPROVED BY OMB: NO. 3150-0027**

**EXPIRES: 02/28/2022**

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 Information Services Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to [Infocollects.Resource@nrc.gov](mailto:Infocollects.Resource@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="checked" type="checkbox"/> Public <b>OR</b> <input type="checkbox"/> Non-Public		Date Received <b>03/17/2021 JMS</b>	
License Number <b>XMAT415/05</b>		Docket Number <b>11005907</b>		Adams Accession Number	
<b>PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS, OR CONSENT REQUESTS</b> (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>LINDE GAS NORTH AMERICA, LLC 10 RIVERVIEW DRIVE DANBURY, CT 06810 USA</b>		1a. Name of Applicant's Contact  <b>YULIANA KALINOVA</b>		1b. Applicant's Reference Number  <b>415.04</b>	
		1c. Office Telephone Number  <b>716 534 9043</b>		1d. Office Facsimile Telephone Number	
		1e. Applicant's E-mail Address <b>yuliana.kalinova@linde .com</b>			
2. Type of Action Requested (Check one)		<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Export (Parts B, C, E)    <input type="checkbox"/> Amendment/Renewal    <input type="checkbox"/> Import (Parts B, D, E)    <input type="checkbox"/> Consent Request (Parts B, C)         </div> <div>           Current License Number:  <b>XMAT415/04</b> </div> </div>			
3. Contract Number(s)		4. First Shipment Date <b>01/04/2011</b>		5. Last Shipment Date <b>12/31/2022</b>	
<b>PART C. TO BE COMPLETED FOR EXPORT LICENSES, AMENDMENTS, OR RENEWALS</b> (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 U. S. Suppliers and/or other U. S. Parties to the Export  <b>NO CHANGE</b>		8. Name(s)/Address(es) of Intermediate Foreign Consignee(s)  <b>SEE ADDITIONAL INFORMATION</b>		9. Name(s)/Address(es) of Ultimate Foreign Consignee(s)  <b>SEE ADDITIONAL INFORMATION</b>	
7a. Function(s) Performed/Service(s) Provided		8a. Intermediate Use(s)  <b>BLENDING MIXTURES</b>		9a. Ultimate End Use(s)  <b>SEE ADDITIONAL INFORMATION</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>2H2/D2, DEUTERIUM GAS ISOTOPE OF HYDROGEN</b>		10a. Maximum Total Volume/Element WGT (KG), or Total Activity (TBq)  <b>1MOLE=0.004032 KG OR 5,988L/KG GAS</b>		10b. Max Enrichment or WGT% <b>99.99%</b>	
				10c. Max Isotope WGT (KG) <b>N/A</b>	
11. Foreign origin (or obligations by country and, if known, by percentage of maximum total volume)					

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License Number <b>XMAT415/05</b>	Docket Number <b>11005907</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 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 Foreign Parties to Import	13. Name(s)/Address(es) of Foreign or U. S. Intermediate Consignee(s)	14. Name(s)/Address(es) of Ultimate U. S. 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. Maximum 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, RENEWALS OR CONSENT REQUEST(S)**

(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

17. Additional Information provided on pages 3, 4, and/or separate sheets? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	17a. Copies of Recipient's 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 <b>YULIANA KALINOVA</b> Trade Compliance Manager	18b. Signature -- Authorized Official <b>Yuliana Kalinova</b> Digitally signed by Yuliana Kalinova Date: 2021.03.12 17:44:25 -05'00'	18c. Date <b>3/12/2021</b>
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Additional Information (Reference applicable block numbers from page 1 and/or page 2 for each entry)

BLOCK8: Amendment is filed to request the following additional INTERMEDIATE  
FOREIGN CONSIGNEES:

1. Linde Korea CO., LTD  
5F COSMO DAECHI, 8  
Teheran-ro, 98-gil, Gangnam-gu  
SEOUL 06181  
REPUBLIC OF KOREA
2. Linde Korea CO., LTD  
Hieongoksandan-ro, 94beon-gil, Cheongbuk-myeon  
Pyeongtaek-si, Gyeonggi-do 17812  
REPUBLIC OF KOREA
3. Linde Korea CO., LTD  
123-30, Injusandan-ro, Inju-myeon  
Asan-si, Chungcheongnam-do 31435  
REPUBLIC OF KOREA

## BLOCK9: Amendment is filed to request additional ULTIMATE FOREIGN CONSIGNEES:

1. SK Hynix, Inc.  
215 Daesin-ro, Heungdeok-gu  
Cheongju-si, Chungcheongbuk-do 28429  
REPUBLIC OF KOREA
2. Samsung Electronics Co., Ltd  
129 Samsung-ro, Yeongtong-gu  
Suwon-si, Gyeonggi-do 16677  
REPUBLIC OF KOREA
3. Samsung Electronics Co., Ltd  
114 Samseong-ro, Godeok-myeon  
Pyeongtaek-si, Gyeonggi-do 17786  
REPUBLIC OF KOREA
4. Samsung Electronics Co., Ltd  
1 Samseong-ro, Giheung-gu  
Yongin-si, Gyeonggi-do 17113  
REPUBLIC OF KOREA
5. Samsung Electronics Co., Ltd  
1 Samsungjeonja-ro  
Hwaseong-si, Gyeonggi-do 18448  
REPUBLIC OF KOREA

BLOCK9A: For additional ULTIMATE FOREIGN CONSIGNEE 1: R&D for Semiconductor NAND & CMOS Image  
Sensor Production.

For additional ULTIMATE FOREIGN CONSIGNEES 2, 3, 4 AND 5: Manufacturing of Semiconductor Devices