

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



**U. S. NUCLEAR REGULATORY COMMISSION**

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

**EXPIRES: 02/28/2022**

**APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S)**  
*(See Instructions on Pages 4 and 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 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="" type="checkbox"/> Public <b>OR</b> <input type="checkbox"/> Non-Public	Date Received <b>03/17/2021 JMS</b>
License Number <b>XMAT456</b>	Docket Number <b>11006416</b>	Adams Accession Number

**PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS, OR CONSENT REQUESTS**  
(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</b>  <b>10 RIVERVIEW DRIVE DANBURY, CT 06810 USA</b>	1a. Name of Applicant's Contact <b>YULIANA KALINOVA</b>	1b. Applicant's Reference Number
	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)	Current License Number:	
<input checked="" 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)		
3. Contract Number(s)	4. First Shipment Date <b>08/01/2021</b>	5. Last Shipment Date
		6. Proposed Expiration Date

**PART C. TO BE COMPLETED FOR EXPORT 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 U. S. Suppliers and/or other U. S. Parties to the Export <b>LINDE GAS NORTH AMERICA, LLC</b>  <b>10 RIVERVIEW DRIVE DANBURY 06810 USA</b>	8. Name(s)/Address(es) of Intermediate Foreign Consignee(s) <b>BOC GASES IRELAND LTD</b>  <b>JOHN F. KENNEDY DRIVE BLUEBELL INDUSTRIAL ESTATE DUBLIN12 D12 PP63 IRELAND</b>	9. Name(s)/Address(es) of Ultimate Foreign Consignee(s) <b>INTEL IRELAND LTD</b>  <b>COLLINSTOWN INDUSTRIAL ESTATE LEIXLIP CO. KILDARE W23 CX68 IRELAND</b>
7a. Function(s) Performed/Service(s) Provided <b>MANUFACTURING AND EXPORT</b>	8a. Intermediate Use(s) <b>DISTRIBUTION</b>	9a. Ultimate End Use(s) <b>MANUFACTURING OF SEMICONDUCTOR DEVICES</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>4,275 KG</b>  <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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**APPLICATION FOR NRC EXPORT OR IMPORT  
LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)**

License Number	Docket Number	Adams Accession Number	<input 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 type="checkbox"/> Yes <input checked="" 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 YULIANA KALINOVA Trade Compliance Manager	18b. Signature -- Authorized Official Yuliana Kalinova Digitally signed by Yuliana Kalinova Date: 2021.03.15 14:29:21 -04'00'	18c. Date 03/15/2021
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**U. S. NUCLEAR REGULATORY COMMISSION**

**APPLICATION FOR NRC EXPORT OR IMPORT  
LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)**

License Number

Docket Number

Adams Accession Number

Public

**OR**

Non-Public

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

**U. S. NUCLEAR REGULATORY COMMISSION  
INSTRUCTIONS FOR PREPARATION OF NRC FORM 7, APPLICATION FOR  
NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL OR CONSENT REQUEST(S)**

General Instructions: A completed, signed original NRC Form 7 may be mailed to the Deputy Director, Office of International Programs, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or hand-delivered to the Deputy Director at 11555 Rockville Pike, Rockville, Maryland 20852.

Refer to Title 10 of the Code of Federal Regulations, Part 110, for specific NRC export/import licensing requirements. For each license, amendment or renewal application, identify all foreign and domestic locations where exports or imports will be handled, sorted, repackaged and/or processed in any way. Provide information on quantities, forms, and other characteristics of the radioactive materials, sealed sources, nuclear facilities and equipment to be exported or imported and indicate how they will be used by each of the parties listed. If more space is needed to complete any of the items on this form, use the continuation pages first, and then attach additional sheets. Reference appropriate BLOCK number(s) for each entry on all additional sheets. All applicants should avoid submitting proprietary information unless absolutely necessary, as NRC is required to make copies of all applications received available to the public. If proprietary information must be submitted, follow procedures in 10 CFR 2.390, otherwise, such information could be publicly disclosed and/or processing of an application could be significantly delayed.

An application for a specific license to export or import or a request for an exemption from a licensing requirement must be accompanied by the appropriate fee in accordance with 10 CFR Part 170. The fee schedules are provided in §§ 170.21 and 170.31. The reference "IMEX" should be included on your form of payment. A license application will not be processed unless the specified fee is received.

**NOTE: FOR CONSENTS FILL OUT BLOCKS,  
(1a-2,8,9,10,10a,17,18)**

**PART A. FOR NRC USE ONLY**

**PART B. TO BE COMPLETED BY ALL APPLICANTS FOR  
ALL LICENSES, AMENDMENTS, RENEWALS, OR CONSENT  
REQUEST(S)**

BLOCK 1. Enter name and complete physical address of the corporation or other entity with direct control over distribution of proposed export(s) or import(s), and where required records will be maintained and can be inspected. Post Office Box Numbers or names of divisions or departments within a legal entity are NOT acceptable entries for this BLOCK.

BLOCKS 1a-e. Provide name and contact information identifying the best party to answer questions about an application. Applicants should use BLOCK 1b to assign their own reference number to identify application documents.

BLOCK 2. Indicate the TYPE OF NRC LICENSING ACTION requested by checking:

- EXPORT if applying for a new export license.
- IMPORT if applying for a new import license.
- AMENDMENT OR RENEWAL if applying to modify or extend an export or import license previously issued by NRC (and not yet expired). Include NRC license number in space provided. If NRC receives an amendment/ renewal application at least 30 days or more before the license expires, its terms will remain valid and, if circumstances permit, it can continue to be used until NRC completes action on the amendment or renewal application.
- CONSENT REQUEST if submitting a request for the NRC to obtain government-to-government consent to authorize shipment(s) of Category 1 quantities of byproduct material. Include NRC license number in space provided.

BLOCK 3. If known, provide contract number(s), which may be useful references for example, if reviewers need to contact recipients or other parties listed on the application.

BLOCK 4. Enter the anticipated date of the first shipment (MM/DD/YYYY).

BLOCK 5. Enter the anticipated date of last shipment (MM/DD/YYYY).

BLOCK 6. Enter a proposed license expiration date (MM/DD/YYYY), to accommodate export activities. Note that NRC licenses are typically issued for 1-5 years.

NOTE: For amendments and renewals, provide only the new or changed information, as appropriate, in PART C and/or PART D. (For example, enter names and addresses of parties or consignees, only if they need to be added to, deleted from, or their information needs to be changed. If seeking to increase the volume or quantity of material or equipment, specify the additional increment, and, if applicable, indicate what the new, combined cumulative total will be.)

**PART C. TO BE COMPLETED BY APPLICANTS FOR EXPORT  
LICENSES, AMENDMENTS, RENEWALS, OR CONSENTS**

BLOCK 7. Enter names of U. S. supplier(s) and other U. S. parties to export not listed in BLOCKS 1, 8, OR 9. Provide complete physical address(es) where correspondence should be sent and where export(s) can be inspected. Post Office Box Numbers are NOT acceptable entries for this BLOCK.

NOTE: U. S. transport/shipping service provider and/or commercial carrier; do not need to be listed as "Other" U. S. Parties on the application. These entities are not parties-in-interest to an export license. They serve only as transporters of the nuclear material or commodity being exported and their legal responsibility from a regulatory standpoint is limited to complying with NRC's and the Department of Transportation's transportation requirements. If applicants list transport/shipping service providers or commercial carriers on their applications, they can be identified on the export license if issued, but that does not convert them into legally responsible formal parties-in-interest to the license. Carriers are not relevant to the NRC's review of an export application to determine whether the statutory nonproliferation criteria have been met.

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INSTRUCTIONS FOR PREPARATION OF NRC FORM 7, APPLICATION FOR  
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BLOCK 7a. Describe functions to be performed and/or services to be provided by any U. S. parties listed in BLOCK 7.

BLOCKS 8-9. Enter names and physical address(es) for each intermediate and each ultimate foreign location. Post Office Box Numbers are NOT acceptable entries for these BLOCKS.

BLOCKS 8a and 9a. Describe how each consignee will use export(s), including functions to be performed and/or services to be provided.

BLOCK 10. Describe key characteristics including physical and chemical forms, etc., of radioactive materials (i.e., source, special nuclear or byproduct materials including sealed sources or devices and radioactive waste), nuclear facilities, or equipment, uranium, or thorium, and provide chemical form (e.g., U3O8, Th-227). Identify and provide total volume in kilograms of ores containing 0.05% or more of source material (e.g., tantalum, niobium) and specify source material contained. Identify special nuclear material as plutonium, high enriched uranium (> 20% U-235) or low enriched uranium (<20% U-235) and specify chemical form (e.g. UF6, UO2).

Identify Appendix L byproduct materials by name and form, including maximum total activities and types of sealed sources and/or devices to be exported over the license life. Identify Appendix P materials by name and form, including maximum total quantities activity in Terabecquerels (TBq) and types of sealed sources and/or devices to be exported on a per shipment basis. For radioactive waste, identify and provide maximum total volume in kilograms for each non-radioactive material involved, physical and chemical forms for each radioactive material, if exported for the purposes of disposal in a land disposal facility as defined in 10 CFR Part 61, a disposal area as defined in Appendix A to 10 CFR Part 40, or an equivalent facility; route(s) of transit, forms of management and ultimate disposition. For nuclear facilities, provide total quantity; types; names, design power or annual capacity rating; and the estimated combined total dollar value. For nuclear equipment, identify all items by name, total quantity and function and provide the estimated combined total dollar value.

BLOCK 10a. For source material, provide maximum total volume/element weight over license life in kilograms. For special nuclear material, provide maximum total element weight over license life in kilograms. For each Appendix L byproduct material listed, provide maximum total activity over license life in Terabecquerels (TBq). For each Appendix P material listed, provide maximum total activity per shipment in Tbq.

BLOCKS 10b-c. For special nuclear material including as radioactive waste, provide maximum weight % (enrichment) and total isotope weight over license life in kilograms.

BLOCK 11. For proposed exports or imports (of source or special nuclear material or nuclear facilities or equipment). Identify each country of origin of equipment or materials, and any other countries that have processed the material prior to its import into the United States, and, if known, the percentage of the maximum total volume that may be obligated to a foreign country (requires U. S. Government action, e.g., prior notification).

**PART D. TO BE COMPLETED BY APPLICANTS FOR IMPORT LICENSES, AMENDMENTS OR RENEWALS**

BLOCK 12. Enter name(s) and address(es) of foreign supplier(s) or exporter(s).

BLOCK 12a. For import(s) originally exported under a specific NRC license, enter that license number.

BLOCKS 13a and 14a. Enter NRC or Agreement State Materials License number(s) including expiration date(s) (MM/DD/YYYY) for each U.S. consignee, authorizing receipt, possession, use or distribution.

BLOCK 15. Describe key characteristics including physical and chemical forms, etc., of radioactive materials (i.e., source, special nuclear or byproduct materials including sealed sources or devices and radioactive waste), and nuclear facilities. For radioactive waste, identify and provide maximum total volume in kilograms for each non-radioactive material (e.g., contaminated steel) involved, and for each radioactive material contained, including its physical and chemical forms for each radioactive source, special nuclear or byproduct material. Identify responsible, and provide industrial process, route(s) of transit, as well as the status of arrangements for disposition in the U.S., e.g., any agreement by a low-level waste compact or State to accept for management or disposal. For nuclear facilities, provide total quantities; types; names, design power or annual capacity rating; and the estimated combined total dollar value.

BLOCK 15a. For source and/or special nuclear material, provide maximum total volume/element weight over license life in kilograms. For Appendix L byproduct material, including that which is in the form of radioactive waste, provide maximum total activity over license life in TBq.

BLOCKS 15b-c. For special nuclear material including that which is in the form of radioactive waste, provide maximum enrichment/weight % and maximum total isotope weight over license life in kilograms.

BLOCK 16. Identify each country and the percentage of the maximum total volume that may be obligated to them (require U. S. Government action, e.g., prior notification).

**PART E. TO BE COMPLETED BY ALL APPLICANTS**

BLOCK 17. Check YES or NO to verify whether or not additional information is being provided using the space provided on the continuation pages and separate sheets.

BLOCK 17a. Check YES or NO to verify whether or not copies of domestic recipients' authorizations required for Appendix P materials (see Part 110.32 requirements) are included with the application.

BLOCKS 18a-c. An authorized official of the legal entity applying for the License, Amendment or Renewal, must certify.