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| NRC FORM 7 (3-2010) 10 CFR 110 | | U.S. NUCLEAR REGULATORY COMMISSION | | APPROVED BY OMB: NO. 3150-0027 | | EXPIRES: 08/31/2012 | |
| 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 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to 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. | | | |
| | | | | PART A. FOR NRC USE ONLY | | <input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC | |
| LICENSE NUMBER XMAT 412 | | DOCKET NUMBER 11005876 | | 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.) | | | | | | | |
| 1. NAME AND ADDRESS OF APPLICANT/LICENSEE LINDE ELECTRONICS AND SPECIALTY GASES, A DIVISION OF 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 RDC0610 | | |
| | | | 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 (Check One) | | | | | | | |
| <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 06/01/2011 | | 5. LAST SHIPMENT DATE 12/30/2016 | | 6. PROPOSED EXPIRATION DATE 12/31/2016 | |
| 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 SEE ADDITIONAL INFORMATION | | | 8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S) SPECTRA CHINA FUHUA YILA ZHUOYUE DASHA ROOM 1606 SHENZHEN 518048 PRC (SEE ADDITIONAL INFORMATION) | | | 9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) SEE ADDITIONAL INFORMATION | |
| 7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED FORWARDER/CARRIER | | | 8a. INTERMEDIATE USE(S) RESALE/BLENDING MIXTURES | | | 9a. ULTIMATE END USE(S) FIBER OPTIC PROCESSING | |
| 10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT 2H2/D2, DEUTERIUM GAS, ISOTOPE OF HYDROGEN | | | | 10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) 1 MOLE= 0.004032 KG & 5988 L/KG GAS (TOTAL VOL IN ADDL INFO) | | 10b. MAX ENRICHMENT OR WGT % 99.99% | 10c. MAX ISOTOPE WGT (KG) N/A |
| 11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) | | | | | | | |
| | | | | | | MAY 17 2011 | |

License revised to change intermediate & ultimate foreign consignees & change shipping timeframes.

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U.S. NUCLEAR REGULATORY COMMISSION

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

| | | | |
|------------------------------------|----------------------------------|------------------------|---|
| LICENSE NUMBER X MAT 412 | DOCKET NUMBER 11005876 | ADAMS ACCESSION NUMBER | <input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC |
|------------------------------------|----------------------------------|------------------------|---|

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 05/02/2011 |
|--|---|--------------------------------|

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(3-2010)
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

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

| | | | |
|----------------------------------|----------------------------------|------------------------|---|
| LICENSE NUMBER XMAT412 | DOCKET NUMBER 11005876 | ADAMS ACCESSION NUMBER | <input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC |
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ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

BLOCK 7 - FREIGHT FORWARDER/CARRIERS

| | | | |
|--------------------------------------|----------------------------|------------------------------|--------------------------|
| KARR ELLIS & COMPANY, INC | DISTRIBUTION BY AIR | BDP INTERNATIONAL INC | PANALPINA INC |
| 1975 LINDEN BLVD, SUITE 205 | 701 COTTONTAIL ROAD | 510 WALNUT STREET | 1000-B CASTLE RD |
| ELMONT NY 11003 | SOMERSET NJ 08873 | PHILADELPHIA PA 19106 | SECAUCUS NJ 07094 |
| TEL: 347 632 1500 | TEL: 888 573 3030 | TEL: 215 629 7500 | TEL: 201 272 2300 |
| FAX: 516 285 4131 | FAX: 732 764 6860 | FAX: 215 629 8921 | FAX: 201 210 9709 |

BLOCK 8 - SPECTRA CHINA IS A WIFE OF LINDE GAS NORTH AMERICA LLC. THEY WILL MAKE THE INITIAL PURCHASE AND TAKE RECEIPT OF ALL PRODUCT. SPECTRA CHINA WILL RESALE THE PURE GAS TO THE FOLLOWING COMPANIES WHO WILL MAKE THE DEUTERIUM/NITROGEN GAS BLENDS:

| | | |
|--|---------------------------------|-----------------------|
| HONG KONG OXYGEN AND ACETYLENE CO LTD | TOTAL ANNUAL D2 REQUIRED | 125,000 LITERS |
| 18 DAI SHING STREET, TAI PO INDUSTRIAL ESTATE | TOTAL ANNUAL D2 REQUIRED | 20.88 KG |
| KOWLOON HONG KONG | | |

| | | |
|--------------------------------------|---------------------------------|-------------------------|
| SHANGHAI TOMOE TRADING CO LTD | TOTAL ANNUAL D2 REQUIRED | 1,500,000 LITERS |
| RM 502, MEIHUA BUILDING | TOTAL ANNUAL D2 REQUIRED | 250.50 KG |
| NO 656 MIDDLE XIZANG RD | | |
| SHANGHAI 200001 CHINA | | |

BLOCK 8a - THE DEUTERIUM PURCHASED FROM LINDE GAS NORTH AMERICA WILL BE USED TO PRODUCE DEUTERIUM BLENDS IN NITROGEN FOR RESALE TO THE FIBER OPTIC MARKET.

BLOCK 9 - END USERS

(SUPPLIED THROUGH SHANGHAI TOMOE TRADING)

| | | |
|---|---------------------------------|-------------------------|
| CORNING SHANGHAI FIBER OPTICS CO LTD | TOTAL ANNUAL D2 REQUIRED | 1,500,000 LITERS |
| NO 1088 QIN JIANG RD | TOTAL ANNUAL D2 REQUIRED | 250.50 KG |
| SHANGHAI 200233 CHINA | | |

(SUPPLIED THROUGH HONG KONG OXYGEN AND ACETYLENE CO LTD)

| | | |
|--|---------------------------------|----------------------|
| TRANSTECH OPTICAL COMMUNICATION CO LTD | TOTAL ANNUAL D2 REQUIRED | 50,000 LITERS |
| 3 DAI KWAI STREET, TAI PO INDUSTRIAL ESTATE | TOTAL ANNUAL D2 REQUIRED | 8.35 KG |
| HONG KONG | | |

| | | |
|---|---------------------------------|----------------------|
| SAMSUNG ELECTRONICS HAINAN FIBEROPTICS | TOTAL ANNUAL D2 REQUIRED | 75,000 LITERS |
| (SEHF), HAIKOU FREE TRADE ZONE | TOTAL ANNUAL D2 REQUIRED | 12.53 KG |
| NANHAI AVENUE 168, HAIKOU CITY | | |
| HAINAN CHINA | | |

BLOCK 9a - ALL END USERS ARE USING THE MIXTURES TO PROCESS FIBER OPTIC CABLE WHICH DISPLACES ANY MOISTURE AND INCREASES BANDWIDTH IN THE CABLE. TOTAL D2 REQUIRED/YEAR = 1,625,000 LT OR 271.38 KG. TOTAL REQUESTED FOR LICENSE PERIOD OF 5 YRS = 8,125,000 LT OR 1356.88 KG.

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Resale Assurance Statement

The United States Nuclear Regulatory Commission regulates exports and re-exports of any nuclear materials, source materials, and technologies, under the Code of Federal Regulations (CFR), 10 CFR part 110. This includes but is not limited to deuterium and deuterated compounds. If you are outside the United States and wish to import or re-export an item that is of US origin or that has US content, your request may require a license from the US Nuclear Regulatory Commission. You as the intermediate consignee have a responsibility to follow all stated regulations including but not limited to verifying that the final consignee is not a denied party; in a restricted or embargoed destination; all volume/quantity limits are adhered to; and the product's intended use is not restricted pursuant to the Code of Federal Regulations 10 CFR, part 110. The most recent regulations for Deuterium and/or deuterated products obtained from Linde Gas North America LLC, Linde Electronics and Specialty Gases, Spectra Gases GmbH DE, Spectra Gases Ltd. UK, or Spectra China can be found using the following link: <http://www.nrc.gov/reading-rm/doc-collections/cfr/part110/>

The Linde Group does not support any business with Iran even that which is conducted under legitimate means. Products, services, or technology obtained from any Linde Group affiliate or distributor shall not be exported, re-exported, or a deemed export to Iran.

Shanghai Tomoe Trading Co., Ltd. will purchase 100,000 Liters of Deuterium or Deuterium compounds

Your Company Name Number of liters
Product will be used by: Corning Shanghai Fiber optics Co., Ltd. /Shanghai/China
End user name/City/State/Country

Briefly describe process here: We import and provide the Deuterium compounds gases product to the end users

Shanghai Tomoe Trading Co., Ltd. warrants that we are responsible to assure that the final consignee

Your Company Name does not/will not engage in the following :

Safeguarded and Un-safeguarded nuclear activities; activities including research on, or development, design, manufacture, construction, testing, operation, or maintenance of:

any nuclear explosive device, or components or subsystems of such a device; any nuclear reactor, critical facility, facility for the fabrication of nuclear fuel or fuel cycle activities, facility for the conversion of nuclear material from one chemical form to another; Facilities for the chemical processing of irradiated special nuclear or source material, Facilities for the separation of isotopes of source and special nuclear material, Facilities for the production of Heavy Water, or Facilities for the fabrication of nuclear reactor fuel containing plutonium; or separate storage installation where there is no obligation to accept International Atomic Energy Agency (IAEA) safeguards at the relevant facility or installation when it contains any source or special fissionable material (regardless of whether or not it contains such material at the time of export), or where any such obligation is not met.

Mini Row 2011/4/27
Representative Signature/Date

General Manager

Title

Shanghai Tomoe Trading Co., Ltd.

Rm 502, Meihua Building,

No. 656 Middle Xizang Rd., Shanghai China

Zip Code: 200001

Company's Mailing Address

XMAT 412

MAY 17 2011

Rec'd
JC

企业法人营业执照

编号: N9 0304864

(副 本)

注册号 企独沪浦总副字第320329号(浦东)

名 称
住 所
法 定 代 表 人
注 册 资 本
实 收 资 本
公 司 类 型
经 营 范 围

上海都茂爱贸易有限公司

上海市外高桥保税区杨高北路2001号市场商务楼629室

田尾嘉孝

美元30万元

美元30万元

有限责任公司(外国法人独资)

国际贸易、转口贸易、保税区企业间贸易及区内贸易代理; 货物及技术进出口(不含分销及国家禁止项目); 区内商业性简单加工及商务咨询服务(涉及许可经营的凭许可证经营)。

股东(发起人)

日本株式会社巴商会

营 业 期 限 自
成 立 日 期

二00五年五月十八日 至 二0五五年五月十七日

二00五年五月十八日

须 知

1. 《企业法人营业执照》是企业法人资格和合法经营的凭证。
2. 《企业法人营业执照》分为正本和副本, 正本和副本具有同等法律效力。
3. 《企业法人营业执照》正本应当置于住所的醒目位置。
4. 《企业法人营业执照》不得伪造、涂改、出租、出借、转让。
5. 登记事项发生变化, 应当向公司登记机关申请变更登记, 换领《企业法人营业执照》。
6. 每年三月一日至六月三十日, 应当参加年度检验。
7. 《企业法人营业执照》被吊销后, 不得开展与清算无关的经营活动。
8. 办理注销登记, 应当交回《企业法人营业执照》正本和副本。
9. 《企业法人营业执照》遗失或者毁坏的, 应当在公司登记机关指定的报刊上声明作废, 申请补领。

年度检验情况

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证照编号15000003200705210457

企业标识150000022005051800074

本执照有效期 自 二00五年五月十八日
至 二0五五年五月十七日

登记机关 上海浦东新区分局



XMAT 4/2
MAY 17 2011
JC

二00七 年 月 日