

APPLICATION FOR MATERIAL LICENSE

L&L 28310
030-30897

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS
WASHINGTON, DC 20555

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIAL SECTION B
631 PARK AVENUE
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
MATERIAL RADIATION PROTECTION SECTION
101 MARIETTA STREET, SUITE 2900
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
796 ROOSEVELT ROAD
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
MATERIAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
MATERIAL RADIATION PROTECTION SECTION
1450 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94596

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- A. NEW LICENSE
- B. AMENDMENT TO LICENSE NUMBER _____
- C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

T.Y. Lin International
5 Fundy Road
Falmouth, ME 04107

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

At address listed in Item 2 and at temporary job sites throughout the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction over the use of by-product material.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Bradley J. Carsok

TELEPHONE NUMBER

207-781-4721

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY 3 P AMOUNT ENCLOSED \$ 230.00

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 36, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948, 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

SIGNATURE—CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

Bradley J. Carsok

Bradley J. Carsok

Engineering Technician

10/28/88

14. VOLUNTARY ECONOMIC DATA

a. ANNUAL RECEIPTS

<\$250K	\$1M-3.5M
\$250K-500K	\$3.5M-7M
500K-750K	\$7M-10M
\$750K-1M	>\$10M

b. NUMBER OF EMPLOYEES (Total for entire facility excluding outside contractors)

c. NUMBER OF BEDS

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to protect confidential commercial or financial—proprietary—information furnished to the agency in confidence)

YES

NO

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS
APP	Nov. 11F	3P	
AMOUNT RECEIVED	CHECK NUMBER		
\$230	6844		

9002060224 881223
REQ1 LIC30
20-28310-01 PDR

APPROVED BY

A. Kimball

DATE

11/2/88
109868

Items 5 Through 11 in Application for Material License

5. Radioactive Material:

<u>(A) Radionucllet</u>	<u>(B) Form</u>	<u>Troxler (C) Drawing #</u>	<u>(D) Maximum Amount</u>
CS-137	Special Form	A-102112	Not to exceed 9 mCi per source
AM-241: Be	Special Form	A-102451	Not to exceed 44 mCi per source

6. Purpose for Use:

To be used in Troxler Model 3400 Series surface moisture/density gauges.

7. Individual Responsible for Radiation Safety Program:

Bradley J. Carsok.

8. Training for Individuals Working in Restricted Areas:

Each operator will attend the Troxler Training Seminar and Brad Carsok will keep a copy of each individual's training certificates on file.

9. Facilities and Equipment:

Attached is a sketch of facility indicating where gauge will be stored when not in use. Brad Carsok will have the key to the storage room lock. The storage area is a minimum of 25 feet from a work station where a person is 100% of the time.

10. Radiation Safety Program:

Attached is a copy of program.

11. Waste Management:

In the case of disposal of radio active material, the gauge will either be transferred to another licensed user, a licensed burial ground, or back to the manufacturer.

Radiation Safety Program

RADIATION SAFETY OFFICER

- A. Bradley J. Carsok has been designated as the company Radiation Safety Officer and will assume the duties and responsibilities that include the following:
1. To ensure that all terms and conditions of the license are being met and that the information contained in the license is up-to-date.
 2. To ensure that the equipment has been leak tested every six (6) months and that the leak test is performed in the manner prescribed by the equipment manufacturer.
 3. To ensure that the use of the equipment is only by individuals that have been authorized by the Radiation Safety Officer and that all users wear personnel monitoring badges when utilizing the equipment.
 4. To maintain the records as required by the Nuclear Regulatory Commission. These records shall include personnel quarterly exposure records, leak test reports and training certificates for all operators.
 5. To ensure that the equipment is properly secured against unauthorized removal at all times, especially when it is not in use. The RSO will have the keys to the gauge's storage room only.
 6. To serve as a point of contact and give assistance in case an emergency such as damaged equipment or theft. At that point the NRC and Troxler Electronics will be notified.
 7. To ensure that all users have read and understand the radiation safety operating and emergency procedures as directed by the Radiation Safety Officer and Troxler Electronics.
 8. To post "Caution Radioactive Material" on the storage location, along with NRC Form #3, "Notice to Employees", nearby in a visible area.
 9. To conduct a written six (6) month inventory of all nuclear gauges, and kept on file for inspection.

OPERATING PROCEDURES

A. Transportation of Equipment

1. All possible means shall be provided to ensure that the equipment is fully secured in the transporting vehicle and when transporting in an enclosed vehicle, keep the gauge in the trunk or rear compartment area so as to limit the exposure rate to a minimum. The vehicle will also be locked at all times. When transporting in an open bed vehicle, the gauge should be securely fastened and locked to the truck bed.

2. The gauge will be transported in the Troxler transportation case. The U.S. Department of Transportation requires that the gauge be transported in a properly labeled carrying case. A copy of the U.S. DOT transport package certification will be kept with the transporter.
3. At all times during transport, the transporter (operator) will also have a properly completed Bill of Lading for each gauge, Source Certificate, Personal ID, and a copy of the Transport Package Certification.

B. Utilization Procedures

1. A utilization log book will be used to control the gauge's whereabouts at all times - signing it out and back in when returning from the field.
2. When the gauge is in the field, we will maintain control over the gauge at all times. The gauge will never be left unattended, as this type of negligence has led to stolen or damaged equipment.
3. When not making measurements, the gauge will be placed in the transportation case and returned to its permanent storage area as soon as possible. The gauge will be properly used as directed by Troxler Electronics. This will maintain any radiation exposure below the acceptable limits. When recharging the gauge, it will be kept in the locked storage room.
4. When using the equipment, we will wear Troxler Electronics TLD badge that has been assigned to the specific operator. These badges will monitor both gamma and neutron radiation with quarterly exchange frequency and reports examined for unusually high dosages. Proper measures will be taken to correct this type of situation.

C. Maintenance and Leak Test Procedures

1. Periodic maintenance will include cleaning the gauge, at which point TLD badges will be worn.
2. No maintenance will be performed in which the radioactive source is removed from the gauge. Troxler Electronics will conduct source removal procedures only.
3. Leak tests will be done every 6 months using the Troxler Model 3880 kit, following the instructions as outlined within the kit. TLD badges will be worn.

EMERGENCY PROCEDURES

- A. In the event of physical damage to a gauge, the following will be done:
1. Immediately cordon off an area around the gauge of at least 15 feet.
 2. If a vehicle is involved, it will be stopped until the extent of contamination, if any, can be established.
 3. A visual inspection of the gauge will be made to determine if the source housing and/or shielding has been damaged.
 4. At the earliest possible time, when the situation is under control, we will contact our Radiation Safety Office at (207) 781-4721. We will describe the present conditions and follow his instructions.
- B. In the event the gauge is lost or stolen, we will immediately notify the RSO, who in turn will contact the NRC and Troxler Electronics.

A COPY OF THIS RADIATION SAFETY PROGRAM WILL BE KEPT WITH THE GAUGE AT ALL TIMES FOR REFERENCE WHEN NEEDED.

**OVERSIZE
DOCUMENT
PAGE PULLED**

SEE APERTURE CARDS

NUMBER OF OVERSIZE PAGES FILMED ON APERTURE CARDS

1

**APERTURE CARD/HARD COPY AVAILABLE FROM RECORD SERVICES BRANCH
FTS 492-8989**