

# APPLICATION FOR MATERIAL LICENSE

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 8  
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  
799 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)

Regis Deglans  
Chief, Materials Testing Office  
Puerto Rico Highway Authority  
G. P. O. Box 3909  
San Juan, Puerto Rico 00936

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

Materials Testing Office  
Puerto Rico Highway Authority  
Minillas Government Center  
Santurce, Puerto Rico

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Regis Deglans

TELEPHONE NUMBER

(809) 728-2650

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.

Rafael E. Pérez

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

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

N/A

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)  
FEE CATEGORY AMOUNT  
ENCLOSED \$

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, 35, 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

## 14. VOLUNTARY ECONOMIC DATA

a. ANNUAL RECEIPTS

<\$250K	\$1M-1.5M
\$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

6. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Quarterly and/or 12 month) 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 furnish it to the agency in confidence)

YES

NO

FOR NRC USE ONLY

TYPE OF FEE

FEE LOG

FEE CATEGORY

COMMENTS

APPROVAL BY

DATE

AMOUNT RECEIVED

CHECK NUMBER

8801220159 880122 870821 170.116)(9)  
REQ2 LIC30

PDR

PUERTO RICO HIGHWAY AUTHORITY  
 MATERIALS TESTING OFFICE  
 APPLICATION FOR MATERIAL LICENSE

Item No. 5 Radioactive Material

<u>GAUGE MODEL</u>	<u>RADIONUCLEI</u>	<u>FORM</u>	<u>TROXLER DRAWING NO.</u>	<u>MAXIMUM AMOUNT</u>
A) 3401, 3411, 3440	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
B) 3241	Am-241:Be	Special Form	A-100337	Not to exceed 300 mCi per source
C) 4640	Cs-137	Special Form	A-102112	Not to exceed 9 mCi per source

Item No. 6 Purpose(s) For Which Licensed Material Will be Used

- A. To be used in Troxler Models 3401, 3411, 3440, Surface Moisture/Density Gauges.
- B. To be used in Troxler Models 3241 Asphalt Content Gauge.
- C. To be used in Troxler Models 4640 Surface Density Gauge.

PUERTO RICO HIGHWAY AUTHORITY  
RADIATION SAFETY PROGRAM  
(For use with Troxler Nuclear Gauges)

1. Radiation Safety Officer

A. Designated Radiation Safety Officer

Rafael E. Pérez has been designated as the Radiation Safety Officer for the Materials Testing Office of the Puerto Rico Highway Authority. As such, he will assume the duties and responsibilities indicated in the following section.

B. Duties and Responsibilities

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 in the required timely manner and that the leak test is performed in the manner prescribed by the equipment manufacturer.
3. To ensure that the equipment is used only by individuals that have been authorized by the Materials Testing Office and that all users wear personnel monitoring equipment when utilizing the equipment.
4. To maintain the records as required by the license and the regulations. These records shall include personnel exposure records, leak test records and training certificates for all users.
5. To ensure that the equipment is properly secured against unauthorized removal at all times when it is not in use.
6. To serve as a point of contact and give assistance in case of emergency such as equipment damaged in the field or theft and to notify the proper authorities in case of emergency.
7. To ensure that all users have read and understand the radiation safety operating and emergency procedures.

2. 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 the equipment is away from the passenger compartment. When transporting in an enclosed vehicle (car or Van), the vehicle will be locked. 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.
3. At all times during transport, the operator will have a properly completed Bill of Lading for each gauge.

## B. Utilization Procedures

1. When the gauge is in the field, the authorized user must maintain control over the gauge at all times. The gauge must never be left unattended.
2. When not making measurements, the gauge should be placed in the transportation case and returned to its permanent storage area as soon as possible. The gauge is to be used for its intended purpose only. By doing so, the user will maintain any radiation exposure to as low as reasonably attainable.
3. When using the equipment, the user will wear the personnel monitoring device that has been assigned. When not using the equipment, the monitoring device is to be stored in the radiation free area that has been designated in the office.

## C. Maintenance and Leak Test Procedures

1. Periodic maintenance will include cleaning the gauge. During any maintenance, the user must wear the personnel monitoring device.
2. No maintenance will be performed in which the radioactive source is removed from the gauge. For this type of maintenance, the gauge will be returned to the manufacturer.
3. The leak test will be performed using the TROXLER Model 3880 Leak Test Kit. The leak test will be performed using the manufacturer's instructions. Again, the personnel monitoring device will be employed. Gauges will be leak tested at intervals not to exceed six (6) months.

## 3. Emergency Procedures

### A. In the event of physical damage to a gauge, the following will be performed.

1. Immediately cordon off an area around the gauge. An area radius of 15 feet will be sufficient.
2. If a vehicle is involved, it must be stopped until the extent of contamination, if any, can be established.
3. A visual inspection of the gauge is to 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, the user must contact Rafael E. Pérez at (809) 728-2650. Describe the present conditions and follow the instructions of the Radiation Safety Officer.

### B. In the event the gauge is lost or stolen, immediately notify the Radiation Safety Officer as listed above in Item 3.A.4.