

**NRC FORM 313**      **U.S. NUCLEAR REGULATORY COMMISSION**  
 (1-2012)  
 10 CFR 30, 32, 33,  
 34, 35, 36, 39, and 40

**APPLICATION FOR MATERIALS LICENSE**

**APPROVED BY OMB: NO. 3150-0120**      **EXPIRES: (03/31/2012)**

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet 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, (3150-0120), 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.

**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.**

**APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:**

OFFICE OF FEDERAL & STATE MATERIALS AND ENVIRONMENTAL MANAGEMENT PROGRAMS  
 DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS  
 U.S. NUCLEAR REGULATORY COMMISSION  
 WASHINGTON, DC 20555-0001

**ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:**

**IF YOU ARE LOCATED IN:**

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,

**SEND APPLICATIONS TO:**

LICENSING ASSISTANCE TEAM  
 DIVISION OF NUCLEAR MATERIALS SAFETY  
 U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
 475 ALLENDALE ROAD  
 KING OF PRUSSIA, PA 19406-1415

03036004  
X

**IF YOU ARE LOCATED IN:**

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

MATERIALS LICENSING BRANCH  
 U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
 2443 WARRENVILLE ROAD, SUITE 210  
 LISLE, IL 60532-4352

Br. 3

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING,

**SEND APPLICATIONS TO:**

NUCLEAR MATERIALS LICENSING BRANCH  
 U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
 1800 E. LAMAR BOULEVARD  
 ARLINGTON, TX 76011-4511

**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 JURISDICTIONS.**

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

A. NEW LICENSE

B. AMENDMENT TO LICENSE NUMBER

C. RENEWAL OF LICENSE NUMBER      44-28404-02

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

Infra-red Analyzers, Inc.  
 65 Lyman Drive  
 Williston, VT 05495

2012 FEB 21 PM 12:50  
 RECEIVED REGION 1

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

237 Commerce St  
 Williston, VT 05495  
 and anywhere where Infra-red Analyzers maintains jurisdiction for regulating the use of radioactive materials

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

John P Phillips

TELEPHONE NUMBER

800-879-1964

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.

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

9. FACILITIES AND EQUIPMENT.

11. WASTE MANAGEMENT.

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

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

10. RADIATION SAFETY PROGRAM.

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

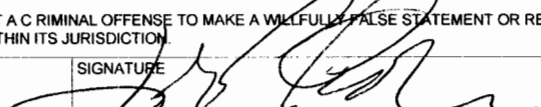
FEE CATEGORY	10 CFR 150.20	AMOUNT ENCLOSED	\$ 2,300.00
--------------	---------------	-----------------	-------------

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, 35, 36, 39, 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.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE      SIGNATURE      DATE

John P. Phillips - RSO, Director of Operations            2-15-12

**FOR NRC USE ONLY**

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

## Application for Materials License Responses

5 – Americium 241

Sealed Source Troxler Dwg. 102451

No single source to exceed 44 mCi

6 – In Troxler Models 3216 & 3218 portable gauging devices for measuring physical properties of materials

7 – John P Phillips

8 – Before using licensed materials, all gauge users will have successfully completed the Troxler Nuclear Gauge Safety Training Class

9 – 2 gauges stored in a locked box in a locked room where a “Caution – Radioactive Material” sign is posted.

10 – See Attached

11 – No waste generated

**INFRA-RED ANALYZERS**  
**RADIATION SAFETY PROGRAM**

**Radiation Safety Officer**

John P. Phillips (JP) has been designated as the company Radiation Safety Officer and will assume 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 in the required timely manner and that the leak test is performed as prescribed by the gauge 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 equipment when using the gauge.
4. To maintain the records, required by the license and the regulations. These records shall include personnel exposure records, leak test records, training certificates for all users, and an inventory.
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 and to notify the proper authorities if needed.
7. To ensure that all users have read and understand the radiation safety operating and emergency procedures.

## **Operating Procedures**

### 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 will be securely fastened and locked to the bed. In any situation, the case should be blocked and braced to prevent shifting.
2. The gauge will be transported in the Troxler transportation case. The U.S Department of Transportation requires the case to be properly labeled.
3. At all times during transport, the operator must have a properly completed "Bill of Lading" and "Emergency Response Information" for each gauge.

## **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 taking 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 only for its intended purpose. By doing so, any radiation exposure will be low as reasonably achievable.
3. When using the equipment, the authorized or designated user will wear the personnel monitoring device that has been assigned to him. When not using the equipment, the individual's personnel monitoring device is to be stored in a designated radiation free area.

### **Maintenance and Leak Test Procedures**

1. Periodic maintenance includes cleaning the gauge. During maintenance, the person performing the maintenance must wear his own personnel monitoring device.
2. No maintenance is to be performed that includes removing the source from the gauge. For this type of maintenance, the gauge must be returned to the Troxler Service Department.
3. The leak test is to be performed using the Troxler Model 3880 Leak Test Kit, according to instructions accompanying the kit. During any maintenance the person performing the maintenance must wear his own personnel monitoring device. Gauges must be leak tested at intervals not exceeding six months.

### **Emergency Procedures**

In the event of physical damage to a gauge, the following steps must be taken:

1. Locate the gauge and/or source.
2. Do not touch or move the gauge.
3. Immediately cordon off an area around the nuclear gauge and/or source. A radius of 15 feet (5m) will be sufficient. Do not leave the area unattended.
4. Keep all unauthorized personnel from the nuclear gauge.
5. If a vehicle is involved, it must be stopped until the extent of contamination, if any, can be established.
6. The gauge user should perform a visual inspection of the nuclear gauge to determine if the source housing and/or shielding has been damaged.
7. Use a survey meter to measure the dose rate at a distance of one meter (3 feet) from the gauge.

Effective Date:01-01-02

8. Contact the company RSO (John P. Phillips). Provide the RSO with the following:
  - The date, time and location of the accident
  - The gauge model and serial number
  - The nature of the accident
  - The location and condition of the gauge and/or source
  - The dose rate at one meter (3 feet) from the gauge
9. If you are unable to reach the RSO, then call your regulatory agency (Troxler Emergency Contact :919-839-2676)
10. Follow the instructions of the RSO. The RSO should report the incident to the regulatory agency. The RSO may also be required to notify the USDOT of accidents during transport.
11. Before shipping a damaged gauge to Troxler, obtain an RGA number from the Troxler ROS.

In the event that a gauge is lost or stolen, the RSO, John P. Phillips, is to be notified immediately.

This is to acknowledge the receipt of your letter (application) dated

2/15/2012, and to inform you that the initial processing which includes an administrative review has been performed.

Renew (44-28404-02) There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

---

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 376984.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.