



PIKE INDUSTRIES, INC.

3 Eastgate Park Road • Belmont, New Hampshire 03220 • (603) 527-5100

AN EQUAL OPPORTUNITY EMPLOYER

ESTABLISHED 1872

From the desk of Jeffrey L. Pochily

Br3

Date: March 1, 2011

Re: Renewal of license 28-28599-01 Docket # 030-32021

Good Day,

~~X~~
Please find enclosed our renewal for the above referenced license. If you have any questions please feel free to contact me at 603-5285106 or jpochily@pikeindustries.com.

Respectfully,

Jeffrey L. Pochily
Jeffrey L. Pochily
Quality control Manager
Radiological Safety Officer

cc. RSO File/NRC/2011

RECEIVED
REGION 1

2011 MAR -2 AM 10:10

574543

NMSS/RGN1 MATERIALS-002

(3-2009)
10 CFR 30, 32, 33,
34, 35, 36, 39, and 40

APPLICATION FOR MATERIALS LICENSE

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 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, (3150-0120), 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

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

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
612 E. LAMAR BOULEVARD, SUITE 400
ARLINGTON, TX 76011-4125

030 32021

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.

<p>1. THIS IS AN APPLICATION FOR (Check appropriate item)</p> <p><input type="checkbox"/> A. NEW LICENSE</p> <p><input type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER _____</p> <p><input checked="" type="checkbox"/> C. RENEWAL OF LICENSE NUMBER <u>28-28599-01</u></p>	<p>2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)</p> <p>Pike Industries, Inc 3 Eastgate Park Road Belmont, N.H 03220</p>
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<p>3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED</p> <p>135 Industrial Ave, Williston VT Alderbrook Road, Coventry VT River Road, Wallingford VT Granger Rd. Berlin VT Campground Rd. New Haven + 30 Jewett</p>	<p>4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION</p> <p>Jeffrey Pochily</p> <p>TELEPHONE NUMBER</p> <p>603-527-5106</p>
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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.

<p>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.</p>	<p>6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.</p>			
<p>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.</p>	<p>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.</p>			
<p>9. FACILITIES AND EQUIPMENT.</p>	<p>10. RADIATION SAFETY PROGRAM.</p>			
<p>11. WASTE MANAGEMENT.</p>	<p>12. LICENSE FEES (See 10 CFR 170 and Section 170.31)</p> <table border="1"> <tr> <td>FEE CATEGORY</td> <td>AMOUNT ENCLOSED</td> <td>\$</td> </tr> </table>	FEE CATEGORY	AMOUNT ENCLOSED	\$
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, 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
Jeffrey L. Pochily	<i>Jeffrey L. Pochily</i>	2/23/2011

FOR NRC USE ONLY

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

Pike Industries

Quality Control Manager

3 Eastgate Park Road

Belmont NH

Date: February 23, 2011

Application for Material License

Attachment to NRC Form 313

#5. Cesium 137 Sealed Sources (Troxler Model No. 102112) Total 180 millicuries
Americium 241 - Sealed Sources (Troxler Model No. 102451 or C-106580) 440 millicuries
total.

#6 Measuring of construction materials

#7. Jeffrey L. Pochily- Pike Industries Radiological Safety Officer

#8

- Two hour annual Radiological Safety Course. Training rules and regulations and Pike Safety rules and Operational and Emergency section.
- One hour class on Haz-mat, Transporting radioactive sealed sources.

#9. Stored at the following locations.

346 Industrial Avenue A, Williston, Vermont;

Alder Brook Road, Coventry, VT;

River Road, Wallingford, VT.

249 Granger Road, Berlin VT;

326 Campground Road New Haven VT;

Pike Industries

Quality Control Manager

3 Eastgate Park Road

Belmont NH

30 Jewett Street, Swanton VT;

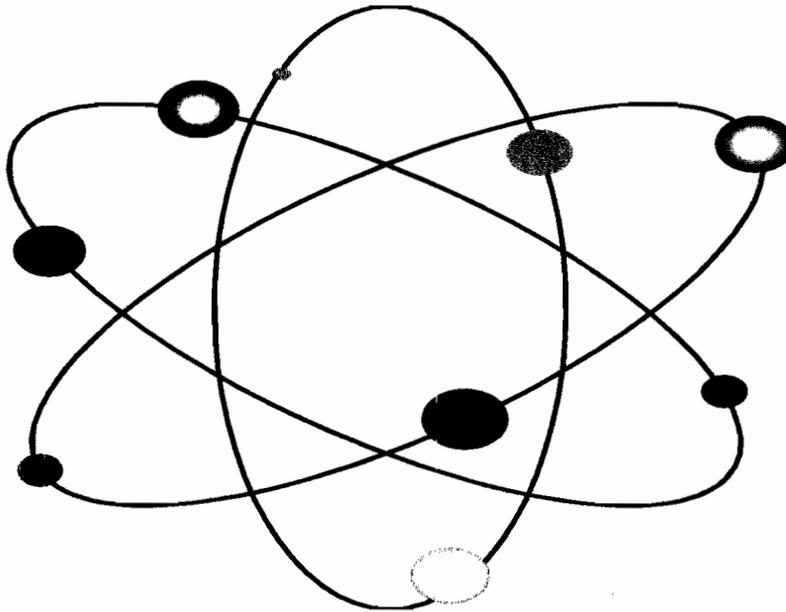
2884 Duck Pond Road, Waterford VT and at temporary locations on job sites.

10 Safety Program (see attached).

11. Material will be disposed through a licensed company that is approved by the NRC or State regulators.

12. N/A

RADIATION SAFETY PROGRAM



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INTRODUCTION

Pike Industries uses many testing methods in its Quality Control Program. One of these methods requires the use of a Thin Lift Nuclear Density Gauge or a Nuclear Moisture-Density gauge. This equipment is very safe when used, stored, and transported properly. However, there are Federal, State, and Corporate rules and regulations which must be followed when working with these gauges or any other nuclear apparatus at Pike Industries.

PURPOSE

The purpose of the Pike Industries' **Radiation Safety Program** is to ensure the highest level of safety for those employees who work with or around any nuclear moisture-density analysis equipment or similar apparatus.

1.0 PROPER SHIPPING AND HAZARD CLASS

RADIOACTIVE MATERIAL, Type A Package, Special Form, UN 3332, Class 7

2.0 AUTHORIZATION

Only employees who have been trained by a certified instructor and authorized by the Pike Industries **Radiation Safety Officer (RSO)** are authorized to operate Nuclear Thin Lift gauges and Nuclear Moisture-Density gauges. Remember to always follow the principle of **As Low As Reasonably Achievable (ALARA)** when working with nuclear devices.

3.0 STORAGE

Gauges are to be stored and secured in designated storage areas whenever they are not in use or in transit. A gauge will be considered **SECURE** when the following conditions are met:

1. The gauge is in the safe position and locked.
2. The gauge case is locked and the adjustable locking cable is wrapped around the locked box. The adjustable locking cable is to prevent the box from being opened and is not of itself considered a barrier to theft.
3. The gauge case is padlocked by chain to the vehicle as described in Section 7.0, or if inside a building, it will be padlocked by chain to the floor or wall of the closet or containment box provided.

3.1 DESIGNATED STORAGE AREAS :

1. A permanent yellow and purple sign announcing the presence of radioactive material will be posted on the outside of the storage area.
2. The storage area will be locked and inaccessible to unauthorized personnel.
3. All gauges will have the **source** in the “**safe and locked position**” and will be secured with a **padlock and chain** to the floor or wall of the closet or containment box provided.
4. Designated Storage Areas will have a **sign out sheet** on which all gauge activities are to be reported.
5. The appropriate field box will accompany each stored gauge.
 - Field boxes will contain applicable forms and required documents.
 - A checklist will be provided and maintained. (See Section 3.4)
 - Missing items will be reported to the **Radiation Safety Officer (RSO)** or **Deputy Radiation Safety Officer (DRSO)** as soon as possible.

3.2 TEMPORARY STORAGE

3.2.1 PIKE JOB TRAILER: The nuclear gauge should be stored in its case, chained and locked to a permanent fixture in the trailer. The trailer must be locked at the close of business each day. The trailer must have a closet or containment box for the gauge. A “Caution Radioactive Material” sign will be placed in a window or otherwise posted in such a manner as to be clearly seen from the outside of the trailer.

3.2.2 VEHICLE: If there is no suitable secure location on the job site, transport the gauge to your motel, cover it and lock it in the trunk of your car or to the steering wheel of your truck. A chain and padlock is required.

- If the gauge box is chained and padlocked to the steering wheel of your truck you must cover the gauge box with a coat or rain gear and lock your truck.
- If you are locking the gauge box in the trunk of your car, you must also have a chain through one of the gauge box handles and the chain must be padlocked to the trunk hinge arm.
- Park in a well lighted area where your vehicle can be viewed at all times

3.3 IN TRANSIT

A Bill of Lading must be with each gauge. The BOL must be left in plain view on the front seat of your vehicle while the gauge is being transported, and left on the driver’s seat should the driver leave the vehicle.

3.4 FIELD BOXES will contain the following:

1. Emergency Procedures and PII telephone numbers
2. Licenses and Technician Certifications
3. Bill of Lading
4. Radiation Caution Placard
5. Miscellaneous items (Refer to Section 9.0)

4.0 DOSIMETERS

Pike employees who are authorized to operate the nuclear gauges must wear a **dosimeter** when using or transporting the gauge. A dosimeter measures the wearer's level of radiation exposure. Note that a dosimeter is not required for *transporting* the gauge, only for operating the gauge.

1. Never store your dosimeter with the gauge or with other radioactive sources.
2. Do not store your dosimeter in a location where it may be exposed to extreme heat (i.e. truck's sun visor or dash board).
3. Radiation Badges must be replaced every 3 months.
 - They will be sent to an accredited laboratory service such as:
Troxler Radiation Services
3008 Cornwallis Rd.
Research Triangle Park, NC 27709
4. Dosimeters should be worn on the belt loop of your pants or attached to your safety vest.
5. Return your used dosimeter promptly to the **RSO** or **DRSO** when you receive a new one.

5.0 LEAK TESTING

Leak tests will be performed on the individual gauges every six (6) months by the **DRSO**. Leak test kits will be forwarded for analysis to an accredited laboratory service such as:

Troxler Radiation Services
3008 Cornwallis Rd.
Research Triangle Park, NC 27709

Reports of the analyses will be kept by the **RSO**. Copies of the most recent test results will be kept in the appropriate individual field boxes.

6.0 ON-THE-JOB

1. Always remember **ALARA -AS LOW AS REASONABLY ACHIEVABLE** when working with nuclear devices.
2. Keep the **source** in the "safe position" except when taking a reading.
3. Never expose yourself or anyone else to the unshielded source.
4. Padlock the source "lock" and store the source in its case when not in use.
5. When not using the gauge for an extended period of time, it should be locked, returned to its box and locked in its box.
 - The locked box should then be locked in the trunk of a car or chained to the bed of a pick-up truck as described below.

- * If you are locking the gauge box in the trunk of your car, you must also have a chain through one of the gauge box handles and the chain must be padlocked to the trunk hinge arm.
 - * If you are chaining the gauge box to the bed of your pick-up truck you will need two chains, two padlocks and the adjustable locking cable. One chain will be threaded through each side handle of the box and padlocked to opposite sides of the bed. The adjustable locking cable will be wrapped around the center of the box and locked. The adjustable locking cable is to prevent the box from being opened and is not of itself considered a barrier to theft. The gauge box itself will also be padlocked.
6. When not secured, the gauge must always be:
- * Under your control.
 - * Within line of sight. Never allow a vehicle to move between you and your gauge.
 - * Within a safe operating distance of approximately 15 feet.

7.0 TRANSPORTATION

**All gauges will be transported in accordance with applicable DOT regulations.
(See 10.7.6.1 of operating and Emergency Procedures)**

In order to transport a nuclear testing gauge a driver must:

1. Have been authorized by the **RSO or DRSO**.
2. Have taken a **Hazardous Materials Training** course within the previous three years.
3. If you are locking the gauge box in the trunk of your car, you must also have a chain through one of the gauge box handles and the chain must be padlocked to the trunk hinge arm.
4. If you are chaining the gauge box to the bed of your pick-up truck you will need two chains, two padlocks and the adjustable locking cable. One chain will be threaded through each side handle of the box and padlocked to opposite sides of the bed. The adjustable locking cable will be wrapped around the center of the box and locked. The adjustable locking cable is to prevent the box from being opened and is not of itself considered a barrier to theft. The gauge box itself will also be padlocked.

8.0 EMERGENCY PRECAUTIONS

8.1 POTENTIAL HAZARDS

8.1.1 Immediate Hazards to Health

1. External radiation hazard from unshielded radioactive material
2. Low level radioactive material (little personal radiation hazard)

3. Materials in **Special Form** are not expected to cause contamination in accidents.
4. Most radioactive materials can be detected by commonly available instruments.
5. Potential internal radiation hazard from inhalation, ingestion, or breaks in skin (only if **Special Form source capsule** is breached)

8.1.2 Fire or Explosion

1. No risk of fire or explosion
2. Radioactivity does not change flammability or other properties of the materials

8.2 EMERGENCY ACTION in the event of an accident will be consistent with **Chapter 5 “Contingency Plan and Emergency Response Program”**. However, it is important to recognize the special hazards involved when responding to an accident involving radiation. Use the following points for reference:

8.2.1 Immediate Precautions

1. Isolate hazard area and deny entry
 - * An area 15 feet in radius from the damaged gauge must be sealed or cordoned off to prevent entry by unauthorized persons.
 - * If a vehicle is involved, it must not be moved until the extent of the contamination (if any) is determined.
2. Emergency response actions may be performed prior to any measurement of radiation; limit entry to shortest time possible.
3. Make a visual inspection of the gauge to determine whether any damage to the **source housing or shield** has been sustained.
4. Do not move a damaged gauge if the radioactive source may be damaged or if its location is not certain.
5. Do not touch the radioactive source or possibly contaminated surfaces.
6. Detain uninjured persons and isolate equipment with suspected contamination
7. Notify Pike Industries **RSO** or **SHE** personnel of accident conditions
RSO Jeff Pochily 800 283 7453 (Work) [REDACTED] (Cell)
DRSO David Chamberlain 603-527-5161 (Work) [REDACTED] (Cell)
DRSO Chris Penney 207-750-3362 (Pager) [REDACTED] (Cell)
SHE/HR Brian Donovan [REDACTED] (cell)

Or

Troxler Electronic Laboratories 919 549-9539 (24 hour hotline)
8. Use the **PII Emergency Response Listing in the SHE Manual** for more numbers.
9. Maintain the integrity of the cordoned area until relieved of responsibility by a Radiation Safety Officer or other responsible company officer.
10. **Beware:** Positive pressure SCBA and structural firefighters protective clothing will provide **limited** protection

8.2.2 Fire

1. Do not move damaged containers.
 - * Remove undamaged containers out of fire zone if removal can be done safely.
2. **Small Fires:** use dry chemical, CO₂, water spray, or regular foam
3. **Large Fires:** use water spray, fog (flooding amounts). Does not direct high pressure water towards the radioactive source.

8.2.3 Spill or Leaks

1. Do not touch damaged containers or exposed contents.
2. Damage to outer container may not affect primary inner container.

8.2.4 First Aid

1. Use first aid treatment according to the nature of the injury.
2. Advise medical personnel that the victim may be contaminated with low level radioactive material.

9.0 ACCOMPANYING FORMS

The following forms must accompany all Pike Industries nuclear gauges

1. United States Nuclear Regulatory Commission Material License
2. State of New Hampshire Source Material License
3. State of Maine Radioactive Material License
4. Emergency Response Sheet
5. Type "A" Package Certification
6. Radioactive Source Certification
7. New Hampshire "Notice to Employees"
8. Pike Industries "Operation and Emergency Procedures"
9. Operator Certificates of Training
10. 100 feet of flagging tape
11. Bill of Lading
12. Most recent copy of leak test.

10.0 GOVERNING REGULATIONS

Department of Transportation Regulations, 49 CFR & P5800.5 ERG 90

Occupational Safety and Health Administration 29 CFR 1910.96

Maine Radiation Statutes, 22 MRSA 677

Maine Department of Human Services Regulations on Radiation, 10-144A CMR 220

New Hampshire Rules for the Control of Radiation, (NHRCR) He-P 4001-4096

11.0 REGULATING AGENCIES

United States Nuclear Regulatory Commission (USNRC) see Appendix A
United States Department of Transportation (USDOT)
Occupational Safety and Health Administration
Environmental Protection Agency

Maine Department of Transportation (MDOT)
Maine Department of Human Services, Maine Bureau of Health, Division of Health
Engineering, Radiation Control Program

New Hampshire Department of Transportation (NHDOT)
New Hampshire Department of Health and Human Services, Division of Public Health
Services, Bureau of Radiological Health, Radioactive Material Sector

Vermont Agency of Transportation

New York Department of Transportation (NYDOT)
New York Department of Labor, Division of Safety and Health, Radiological Health Unit

Massachusetts Department of Transportation (MDOT)
Massachusetts Department of Public Health, Radiation Control Program

This is to acknowledge the receipt of your letter application dated

2/23/2011, and to inform you that the initial processing which includes an administrative review has been performed.

RENEWAL 28-28599-01
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** 574543.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.