

<b>NRC FORM 313</b> (3-2009) 10 CFR 30, 32, 33, 34, 35, 36, 39, and 40	<b>U.S. NUCLEAR REGULATORY COMMISSION</b>	<b>APPROVED BY OMB: NO. 3150-0120</b>	<b>EXPIRES: 3/31/2012</b>				
<b>APPLICATION FOR MATERIALS LICENSE</b>		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 <a href="mailto:infocollects.resource@nrc.gov">infocollects.resource@nrc.gov</a> , 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.					
<b>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.</b>							
<b>APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:</b>  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		<b>IF YOU ARE LOCATED IN:</b>  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					
<b>ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:</b>  <b>IF YOU ARE LOCATED IN:</b>  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		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					
<b>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.</b>							
1. THIS IS AN APPLICATION FOR (Check appropriate item) <input type="checkbox"/> A. NEW LICENSE <input type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <input checked="" type="checkbox"/> C. RENEWAL OF LICENSE NUMBER <u>37-30710-01</u>		2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code) <u>Geotechnics</u> <u>544 Braddock Avenue</u> <u>East Pittsburgh, Pennsylvania 15112</u>					
3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED <u>Geotechnics</u> <u>544 Braddock Avenue</u> <u>East Pittsburgh, Pennsylvania</u>		4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION <u>Randy O'Rourke - President</u> <u>Jeffrey Corchado - Radiation Safety Officer</u> TELEPHONE NUMBER <u>412/823-7600</u>					
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 EXPERIENCE.		8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.					
9. FACILITIES AND EQUIPMENT.		10. RADIATION SAFETY PROGRAM.					
11. WASTE MANAGEMENT.		12. LICENSE FEES (See 10 CFR 170 and Section 170.31) <table style="width: 100%; border: none;"> <tr> <td style="width: 70%; border: none;">FEE CATEGORY</td> <td style="width: 30%; border: none;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; font-size: x-small;">AMOUNT ENCLOSED</td> <td style="width: 40%; font-size: x-small;">\$</td> </tr> </table> </td> </tr> </table>		FEE CATEGORY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; font-size: x-small;">AMOUNT ENCLOSED</td> <td style="width: 40%; font-size: x-small;">\$</td> </tr> </table>	AMOUNT ENCLOSED	\$
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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 <u>RANDY O'ROURKE</u>		SIGNATURE 	DATE <u>1-5-12</u>				
<b>FOR NRC USE ONLY</b>							
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS		
\$				DATE			
APPROVED BY				DATE			

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 Branch 3


**Item 5: Radioactive Material**

	Element & Mass Number	Chemical and/or Physical Form	Maximum Amount Possessed At Any One Time
A.)	Cesium 137	Sealed Sources (Troxler Dwg. No. A-102112)	54 millicuries total, and no single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or Agreement State
B.)	Americium 241	Sealed Sources (Troxler Dwg. Nos. A-102451, C-106580)	264 millicuries total, and no single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or Agreement State
C.)	Californium 252	Sealed Sources (Troxler Dwg. No. A-105560)	396 microcuries total, and no single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or Agreement State

**Item 6: Purpose(s) for which licensed material will be used.**

Licensed material in Troxler Electronic Laboratories, Inc., Model No. 3400 Series portable gauging devices will be used for measuring the physical properties of materials and for training of individuals as a service for others.

**Item 7: Individual(s) responsible for Radiation Safety Program and their training experience.**

The Radiation Safety Officer for this license is Mr. Jeffrey A. Corchado.

**Item 8: Training for individuals working in or frequenting restricted areas**

No employees work in or frequent restricted areas. Troxler Electronic Laboratories, Inc. Model No. 3400 Series portable gauging devices are stored in an area away from frequented work areas. Before using licensed materials, all gauge users will have successfully completed a nuclear gauge safety training course.

#### **Item 9: Facilities and Equipment**

As previously outlined, Geotechnics intends to use Troxler Electronic Laboratories, Inc. Model No. 3400 Series portable gauging devices. When not in use, these devices will be stored in a dedicated secure storage area at Geotechnics facility, located at 544 Braddock Avenue, East Pittsburgh, Pennsylvania. When in the storage area, the gauging devices will be locked, preventing unauthorized or accidental removal of the sealed source from its shielded position. The gauging device container will also be locked and secured to an anchor mounted in the concrete floor. Additionally, the storage room will be locked, preventing unauthorized access. Finally, Geotechnics facility exterior doors are locked when employees are not present. A sign stating "Caution – Radioactive Material" will be posted on the storage facility door. The distance to any permanent work station is greater than fifteen feet from the storage facility.

#### **Item 10: Radiation Safety Program**

Geotechnics maintains a Radiation Safety Program that includes the following:

**Personnel Monitoring:** Authorized gauge users will wear a personnel monitoring device, such as a TLD badge, to measure radiation exposure when using or transporting gauging devices. The TLD badge shall be exchanged at intervals not to exceed three (3) months. Dosimetry badges shall be provided and processed by a National Voluntary Laboratory Accreditation Program accredited vendor.

**Radiation Detection Instruments:** Geotechnics will maintain a survey meter for use in the event of incident involving the gauging device. The survey meter will be calibrated annually and checked for functionality before use.

**Sealed Source Leak Testing:** Leak testing will be performed at intervals not exceeding six (6) months using an approved leak test kit in accordance with the leak test kit manufacturer's recommendations. Leak test samples will be analyzed by an organization specifically licensed by the U.S. NRC or an Agreement State to perform such services.

Records of leak test results shall be kept in units of microcuries and shall be maintained for five (5) years.

**Material Receipt and Accountability:** Records of receipt, transfer, and disposal of gauging devices shall be maintained for a minimum of three (3) years. Physical inventories of sealed sources will be conducted at intervals not to exceed six (6) months.

**Public Dose:** Geotechnics will:

- Ensure that gauging devices are used, transported, and stored in such a way that no member of the public receives a dose of more than 100 mrem in one (1) year.
- Ensure that the dose in unrestricted areas does not exceed 2 mrem in any one (1) hour.
- Control and maintain constant surveillance over gauges that are not in storage and secure gauges from unauthorized use or removal.

**Operating and Emergency Procedures:** Geotechnics will operate the gauging devices in accordance with the manufacture's instructions and recommendations.

In the event of an emergency involving a licensed sealed source, Geotechnics personnel will cordon off the area (approximately 15 foot radius), assess the situation, maintain constant surveillance of the emergency site from a safe distance, and contact Geotechnics Radiation Safety Officer for further instructions.

Renewal License Application  
Geotechnics  
Current License Number: 37-30710-01



**Maintenance:** Routine maintenance of the gauge including lubrication and cleaning will be performed in accordance with the manufacture's recommendations. Any cleaning, maintenance, or repair of the gauging devices that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or by other persons specifically licensed by the U.S. NRC or an Agreement State to perform such services.

**Transportation:** Geotechnics will transport the gauging devices in accordance with the provisions of 10 CFR part 71, "Packaging and Transportation of Radioactive Material."

**Audit Program:** Geotechnics will perform an annual audit to ensure compliance with applicable U.S. NRC, State, and DOT regulations, and the terms and conditions of the license. Geotechnics will also work to ensure that doses to workers and members of the public are As Low As Reasonably Achievable (ALARA).

#### **Item 11: Waste Management**

If transfer or disposal of licensed materials is required, Geotechnics will only transfer the licensed material to an authorized recipient. Records of any licensed material transfer will be maintained as required in 10 CFR 30.51.