

### 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.

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

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20556

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

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIALS SAFETY SECTION B  
475 ALLENDALE ROAD  
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  
NUCLEAR MATERIALS SAFETY 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  
NUCLEAR MATERIALS SAFETY SECTION  
1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94596

SEP 29 1989

**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)**

Gerald M. Gaston  
P. O. Box 861  
Bozeman, MT 59715

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

Gaston Engineering & Surveying, P.C.  
2010 North Seventh Avenue  
Bozeman, MT 59715

**4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION**

Gerald M. Gaston

**TELEPHONE NUMBER**

(406) 586-0588

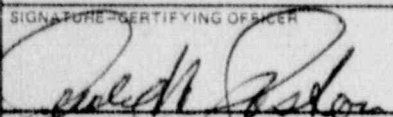
**SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.**

<p><b>5. RADIOACTIVE MATERIAL</b> 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><b>6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.</b></p>		
<p><b>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.</b></p>	<p><b>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.</b></p>		
<p><b>9. FACILITIES AND EQUIPMENT.</b></p>	<p><b>10. RADIATION SAFETY PROGRAM.</b></p>		
<p><b>11. WASTE MANAGEMENT.</b></p>	<p><b>12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">FEE CATEGORY</td> <td style="width: 30%;">AMOUNT ENCLOSED \$</td> </tr> </table>	FEE CATEGORY	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.**

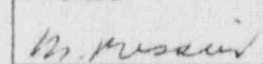
THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, IS TRUE AND CORRECT 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
	Gerald M. Gaston, P.E.	President	9/1/89

9002060212 891019  
REG4 LIC30  
25-27006-01 PDR

**FOR NRC USE ONLY**

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS	APPROVED BY
App	Oct-1-IV	3P		
AMOUNT RECEIVED	CHECK NUMBER			DATE
\$130	1173			10/5/89

ATTACHMENT TO APPLICATION FOR MATERIALS LICENSE

Item # 5.

- A. Cesium - 137
- B. Americium - 241

Item # 6.

For use in Troxler Model 3400 Series moisture/density gauges for measurement of properties of materials.

Item # 7.

Gerald M. Gaston - Radiation safety officer completed Troxler training seminar.

Item # 8.

All operators have completed a field training seminar by Troxler.

Item # 9.

Facility is the engineering firm of Gaston Engineering and Surveying located in Bozeman, Montana. Equipment will be the Troxler Model 3400

Item # 10.

Licensee shall conduct a physical inventory every six (6) months to account for all sealed sources received and possessed under the license. Records of each inventory shall be maintained for two (2) years from the date of inventory for inspection by the Commission, and shall include the quantities and kinds of by product material, location of sealed sources, and date of inventory.

See attached Radiation Safety Program for detailed information.

Item # 11.

Source will be returned to manufacturer.

## B. EMERGENCY PROCEDURES

### 1. Accidents

- a. In the event of the possibility of damage to the source or source control mechanism, the operator will keep unauthorized persons at least ten (10) feet from the gauge and prevent removal of the gauge from the site until authorization by the RPO or appropriate authority.
- b. If there is any possibility that the source capsule might be ruptured, then the source capsule location must be covered by a sheet of materials (e.g. plastic, tarp, etc.) and held down by weights (e.g. rocks, bags of material, etc.) to prevent scattering of the radioactive material by the elements.
- c. The operator must then immediately notify his Radiation Protection Officer of the incident and give an appraisal of the probable condition of the source.
- c. The Radiation Protection Officer will then immediately notify the following authority who will provide instructions and assistance in accordance with the circumstances of the incident:

Region IV, USNRC  
Material Radiation Protection Section  
611 Ryan Plaza Drive  
Arlington, TX 76011  
(817) 860-8187

### 2. Source stolen or lost

- a. The operator must immediately notify the local police or other law enforcement agency within whose jurisdiction the incident occurred.
- b. The operator must also notify his Radiation Protection Officer who will in turn notify the authority listed in Item B, 1. d. above.

## RADIATION SAFETY PROGRAM

### A. SAFETY PROCEDURES

1. Do not operate or attempt to operate a gauge unless you have been authorized to do so.
2. Do not attempt to repair, modify or open the sealed source under any circumstances.
3. Wear film badge at all times while operating or transporting a gauge.
4. Follow established operating procedures while using the gauge.
5. Keep unauthorized persons away from the gauge.
6. Keep the gauge in the "SAFE" or storage position when not in use.
7. Be sure that the gauge is locked within an authorized enclosure (e.g. closet, cabinet, vehicle, etc.) when it is not in use. Security against theft or a radioisotope is of utmost importance and must not be neglected. The storage enclosure should be plainly labeled with radiation warning sign of the approved type. Radiation levels at the outside surface enclosure must not be more than 2 mrem/hr.
8. Gauges may only be transported by authorized personnel in approved vehicles. The gauges may not be transported on the front or rear seats of any vehicle. If a pickup truck is used, the gauges must be locked in the enclosure (e.g. cabinet, shipping case, etc.) and the enclosure tied securely (e.g. chained, bolted, etc.) to the body of the truck in order to prevent loss or theft. Radiation levels at the driver and passenger seats and at the outside surface of the vehicle must not be more than 2 mrem/hr.

Ensure that the gauge is leak tested at proper intervals. The wipe sample will be collected by the Radiation Protection Officer using Troxler 3880 leak test kit. The leak test measurement on the wipe sample will be performed by Troxler Electronic Laboratories, Inc. (P. O. Box 12057, Cornwallis Road, Research Triangle Park, NC 27709).

10. When in doubt, ask.