

### GILMORE & ASSOCIATES, INC.

**ENGINEERING & CONSULTING SERVICES** 

Br. 3

December 15, 2008

Licensing Assistance Team **Division of Nuclear Materials Safety** U.S. Nuclear Regulatory Commission, Region I 475 Allendale Road King of Prussia, PA 19406-1415

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(37-25H 98-02

Reference: NRC Form 313

Application for Materials License

USNRC License (Transferred): 37-28498-01

Licensing Assistance Team:

Gilmore & Associates, Inc. (G&A) has enclosed with this letter the above referenced document for your approval. Due to our current and expected work load for the 2009 year, G&A will not be filing for reciprocity with the U.S. Nuclear Regulatory Commission (USNRC) for transportation and use of our nuclear density gauges in your jurisdiction. Instead, we intend to obtain a Materials License with the USNRC, to be maintained in conjunction with our existing Pennsylvania Department of Environmental Protection (PADEP) Materials License. Prior to March 31, 2008 G&A maintained a Materials License with the USNRC (number referenced above) since May 1, 1995.

As per the USNRC's direction, G&A has utilized NUREG 1556 as a guideline to complete NRC Form 313. Enclosed with this letter is Appendix B (from NUREG 1556) itemizing responses to items 5 to 11 from NRC Form 313. G&A has also enclosed a Supplemental Information Sheet giving a detailed response to Item 9: Facilities and Equipment. Specifically this response details the exact permanent storage location for our density gauges and outlines G&A's current storage and safety procedures.

If you have any questions regarding the above information please call me at (215) 345-4330 ext. 412.

Sincerely,

Gregory A. Sullivan, P.E., R.S.O.

Manager - Geotechnical Services

Gilmore & Associates, Inc.

GAS/bjd/dmk

Enclosures: NRC Form 313, Appendix B, Supplemental Information Sheet, Application Fee

NRC FORM 313

(4-2008) 10 CFR 30, 32, 33, 34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

Estimated burden per response to comply with this mandatory collection reques: 4.4 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@nrc.gov, and to the Desk Office of 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 IJRC may not conduct or sponsor, and a person is not required to respond to the information collection.

### **APPLICATION FOR MATERIALS LICENSE**

	information collection.			
INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GU SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO 1	IDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. THE NRC OFFICE SPECIFIED BELOW.			
APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:	IF YOU ARE LOCATED IN:			
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001  ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:	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			
IF YOU ARE LOCATED IN:	02111			
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:	レン しん I 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:			
LICENSING ASSISTANCE TEAM DIVISION OF NUCLEAR MATERIALS SAFETY U.S. NUCLEAR REGULATORY COMMISSION, REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19406-1415  PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR MATERIAL IN STATES SUBJECT TO U.S.NUCLEAR REGULATORY COMMISSION JURISDICT				
THIS IS AN APPLICATION FOR (Check appropriate item)	2. NAME AND MAILING ADDRESS OF APPLICANT (include ZIP code)			
✓ A. NEW LICENSE	Gilmore & Associates, Inc.			
B. AMENDMENT TO LICENSE NUMBER	65 E. Butler Ave			
C. RENEWAL OF LICENSE NUMBER	New Britain, PA 18901			
3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED	NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION			
65 E. Butler Ave. New Britain, PA 18901	Gregory A. Sullivan, P.E., R.S.O.  TELEPHONE NUMBER  (215) 345-4330			
SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMAT 5. RADIOACTIVE MATERIAL	FION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.			
	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)  FEE CATEGORY 3P  AMOUNT ENCLOSED \$ 1,300.00			
<ol> <li>CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT JPON THE APPLICANT.</li> </ol>				
THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF T CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 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 C R ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN IT	IMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO S JURIS DICTION.			
Gregory A. Sullivan, P.E., R.S.O.	SIGNATURE G. July 12/10/08			
	USEONLY			
TYPE OF FEE	NUMBER COMMENTS			
APPROVED BY DATE				

## ITEMS 5 AND 6: MATERIALS TO BE POSSESSED AND PROPOSED USES

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
X		Cesium-137	Sealed source manufacturer or distributor and model number:  Troxler - 3400 series  Device manufacturer or distributor and model number:  Troxler - 4640-B	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes Specific description of the gauge use:  To measure physical properties of materials	□ Vses are:  (Submit safety analysis supporting safe use)
X		Americium- 241	Sealed source manufacturer or distributor and model number:  Troxler - 3440  Device manufacturer or distributor and model number:	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes 🕅 Specific description of the gauge use: To measure physical properties of materials	Not applicable  Uses are:  (Submit safety analysis supporting safe use)

### APPENDIX B

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
	X	Californium- 252	Sealed source manufacturer or distributor and model number:  Device manufacturer or distributor and model number:	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes  Specific description of the gauge use:	□ Not applicable □ Uses are: □ (Submit safety analysis supporting safe use)
	×	Other Isotope (Specify):	Sealed source manufacturer or distributor and model number:  Device manufacturer or distributor and model number:	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes  Specific description of the gauge use:	☐ Not applicable ☐ Uses are: ☐ (Submit safety analysis supporting safe use)

# ITEMS 7 THROUGH 11: TRAINING AND EXPERIENCE, FACILITIES AND EQUIPMENT, RADIATION SAFETY PROGRAM, AND WASTE DISPOSAL

	Item No. And Title	Suggested Response	Yes	Alternative Procedures Attached
7.	INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE - RADIATION SAFETY OFFICER  ne: Gregory A. Sullivan, P	Before obtaining licensed materials, the proposed RSO will have successfully completed one of the training courses described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience – Radiation Safety Officer" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.	8 0	
8.	TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS	Before using licensed materials, authorized users will have successfully completed one of the training course described in Criteria in the section entitled "Training for Individuals Working In or Frequenting Restricted Areas" in NUREG-1556, Vol. 1, Rev 1, dated November 2001.	ঠ	0
9.	FACILITIES AND EQUIPMENT	No information needs to be submitted in response to this item; key issues are addressed under "Radiation Safety Program – Public Dose" and "Radiation Safety Program – Operating and Emergency Procedures."	Separate Item 9 Response Need Not Be Submitted With Application	
10.	RADIATION SAFETY PROGRAM – AUDIT PROGRAM	The applicant is <i>not</i> required to, and should not, submit its audit program to NRC for review during the licensing phase.	Need Not Be Submitted With Application	
10.	RADIATION SAFETY PROGRAM – TERMINATION OF ACTIVITIES	The applicant is <i>not</i> required to submit a response to the termination of activities section during the initial application.  However, when the license expires when the licensee ceases operation, NRC Form 314 must be submitted.	Need Not Be Submitted With Application	
10.	RADIATION SAFETY PROGRAM – SURVEY INSTRUMENTS	We will either possess and use, or have access to and use, a radiation survey meter that meets the Criteria in the section entitled "Radiation Safety Program – Instruments" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.	Xī	O

### APPENDIX B

	Item No. And Title	Suggested Response	Yes	Alternative Procedures Attached
10.	RADIATION SAFETY PROGRAM – MATERIAL RECEIPT AND ACCOUNTABILITY	Physical inventories will be conducted at intervals not to exceed 6 months, to account for all sealed sources and devices received and possessed under the license.	<b>&amp;</b>	
10.	RADIATION SAFETY PROGRAM – OCCUPATIONAL DOSIMETRY	Either we will maintain, for inspection by NRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of 10 percent of the allowable limits in 10 CFR Part 20, or we will provide dosimetry processed and evaluated by an NVLAP-approved processor that is exchanged at a frequency recommended by the processor.	ă	
10.	RADIATION SAFETY PROGRAM – PUBLIC DOSE	The applicant is <i>not</i> required to submit a response to the public dose section during the licensing phase. This matter will be examined during an inspection.	Need Not Be Submitted With Application	
10.	RADIATION SAFETY PROGRAM – OPERATING AND EMERGENCY PROCEDURES	We will implement and maintain the operating and emergency procedures in Appendix H of NUREG-1556, Vol. 1, Rev. 1, dated November 2001, and provide copies of these procedures to all gauge users and at each job site.	ď	
		OR Operating and emergency procedures will be	٥	
		developed, implemented, and maintained and will meet the criteria in the section entitled "Radiation Safety Program – Operating and Emergency Procedures" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.		
10.	RADIATION SAFETY PROGRAM – LEAK TEST	Leak tests will be performed at intervals approved by NRC or an Agreement Sate and specified in the Sealed Source and Device Registration Sheet. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier's instructions.	X <sub>3</sub>	The information in Appendix J supporting a request to perform leak testing and sample analysis is attached.

Item No. And Title	Suggested Response	Yes	Alternative Procedures Attached
10. RADIATION SAFETY	Routine Cleaning and Lubrication		
PROGRAM – MAINTENANCE	We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's recommendations and instructions.  Non-Routine Maintenance	<b>⅓</b>	
	We will send the gauge to the manufacturer or other person authorized by NRC or an Agreement State to perform non-routine maintenance or repair operations that require the removal of the source or source rod from the gauge.	<b>X</b> 3	The information listed in Appendix G supporting a request to perform non-routine maintenance in-house is attached.
10.RADIATION SAFETY PROGRAM – TRANSPORTATION	The applicant is <i>not</i> required to submit its response to transportation during the licensing process. However, this issue will be reviewed during inspection.	]	ot Be Submitted oplication
11. WASTE MANAGEMENT – GAUGE DISPOSAL AND TRANSFER	The applicant is <i>not</i> required to submit a response to waste management during the licensing process. However, the licensee should develop, implement, and maintain gauge transfer and disposal procedures in its radiation protection program.		ot Be Submitted oplication

### NRC Form 313 Supplemental Information Sheet

#### Item 9: Facilities and Equipment

Our Permanent Storage Area for our portable density gauges at 65 E. Butler Ave is a storage garage in the northeastern corner of the southern parking lot. The portable density gauges will be located in an interior room in the southeastern corner of the garage. There is no exterior access to this room. Our safety features for the new Permanent Storage Area include the following:

- Locking door to the interior room
- Pad locked gauge cases
- · Gauge cases independently chained and pad locked to the concrete floor

The interior door with be placarded with the appropriate warning sign at eye level. Only authorized and film badge monitored portable density gauge users have key access to the permanent storage area and it contents. The closest permanent working station to the storage area is 85 feet.

The remaining portion of the garage will be utilized for equipment and supply storage and non-authorized portable density gauge users (other Gilmore & Associates, Inc. employees) will have access to the remainder of the garage space. Time spent in this area by non-authorized portable density gauge users will be limited to accessing stored equipment/supplies and minor equipment and vehicle repair totaling no more that one half hour per day.

There were no administrative on technical reviewer. Please note omissions or require additional in	and to inform you that the initial processing which has been performed.  DELICATION (03037991)  Initial processing which in the technical review may identify additional
Branch, who will contact you separ  Your action has been assigned <b>Ma</b>	action, please refer to this control number.
NRC FORM 532 (RI) (6-96)	Sincerely, Licensing Assistance Team Leader