

Geo/Environmental Associates, Inc.

3502 Overlook Circle • Knoxville, TN 37909 • 865-584-0344 • Fax 865-584-0778 • www.geoe.com

January 14, 2008

Fax to: 610 337 5269

From: J. Grabeel
Geo/ENV. ASSOCIATES, INC

Mr. Steven Courtemanche
US NRC Region 1
475 Allendale Road
King of Prussia, PA 19406

P-2

03034599

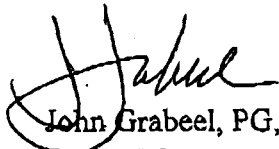
RE: Renewal of License No. 41-25417-01

Dear Steven,

The renewal application for the referenced license is attached. If you have any questions, please contact me at (865)584-0344 work (865)216-5411 cell, or by email.

Thanks for your assistance.

Respectfully Submitted,

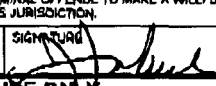


John Grabeel, PG, RSO
Senior Manager
Geo/Environmental Associates, Inc.
3502 Overlook Circle
Knoxville, Tennessee 37909
www.geoe.com
jgrabeel@geoe.com

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NMSS/RGN1 MATERIALS-002

APPENDIX A

NRC FORM 313 U. S. NUCLEAR REGULATORY COMMISSION <small>(5-1999) 10 CFR 30, 32, 33 34, 35, 36, 38 and 40</small>		APPROVED BY OMB: NO. 3150-0120 EXPIRES: 09/31/2002			
APPLICATION FOR MATERIAL LICENSE		Estimated burden per response to comply with the mandatory information collection request: 7.4 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 Management Branch (7-8 E5), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to nrc@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NRCIS-10202, (301)50-0120, Office of Management and Budget, Washington, DC 20503. If a name used to impose an information collection does not display a currently valid OMB control number, 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: 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: 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: LICENSING ASSISTANT SECTION NUCLEAR MATERIALS SAFETY BRANCH U.S. NUCLEAR REGULATORY COMMISSION REGION I 473 ALLONDALG ROAD KIND OF PRUSCIA, PA 19400-1415 ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO: SAM MUMF ATLANA FEDERAL CENTER U.S. NUCLEAR REGULATORY COMMISSION, REGION II 61 FORTYTH STREET, S.W., SUITE 23765 ATLANTA, GEORGIA 30303-8921		IF YOU ARE LOCATED IN: ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO: MATERIALS LICENSING SECTION U.S. NUCLEAR REGULATORY COMMISSION, REGION III 601 WARRENVILLE RD LISLE, IL 60532-4331 ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, 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 SECTION U.S. NUCLEAR REGULATORY COMMISSION REGION IV 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TX 76011-8064			
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) <input type="checkbox"/> A. NEW LICENSE <input checked="" type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <input checked="" type="checkbox"/> C. RENEWAL OF LICENSE NUMBER <u>41-25417-01</u>		2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code) Geo/ENVIRONMENTAL ASSOCIATES, INC. 3502 OVERLOOK CIRCLE KNOXVILLE, TN 37909			
3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED SAME AS 2. 4 Temporary job sites (see attached map)		4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION RSO John GABEEL, PG TELEPHONE NUMBER 865 584 0344			
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 symbol, physical form, and c. minimum 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. LICENSED FEES (See 10 CFR 170 and Section 170.31) 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, 38 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF. WARNING: 10 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 (22 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 - TYPE (PRINTED NAME AND TITLE) John GABEEL, PG, SR MGR.		SIGNATURE 	DATE 1/14/08		
FOR NRC USE ONLY					
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

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January 14, 2008

Application for Radioactive Materials License Renewal
NRC Form 313

Item(s)

- 1. Application**
Renewal of License No. **41-25417-01**
- 2. Mailing Address**
Geo/Environmental Associates, Inc.(GA)
3502 Overlook Circle
Knoxville, Tennessee 37909
Knox County
- 3. Address Where Materials Will Be Stored**
Same as listed in Item 2 and at temporary job sites.
- 4. Person To Be Contacted**
John L. Grabeel, PG, RSO, Senior Manager, Corporate H&S Officer
- 5. Radioactive Material**
 - (a) Cesium 137; Americium 241: Be
 - (b) Sealed source(s): Cesium 137, 10 Mci; Americium 241:Be, 50 Mci
Manufacturer: CPN International
Gauges: MD60503198
MD60803355
MD61003423
MD9119203
MD310500206
- 6. Purposes For Which Licensed Material Will Be Used**
Gauges will be used for measuring moisture/density of construction materials.
- 7. RSO and Experience**
The Radiation Safety Officer is John L. Grabeel, PG.
Trained gauge user since April 1, 1986.
Served as RSO for approximately 14 years.
Previously approved by the NRC as an RSO.
Experience as a Radiation Worker 1 & 2 with both formal and field experience in Oak Ridge, Tennessee doing low level rad remediation.
Four year degree in Geological Sciences 1980 to 1984.
Served as a US Navy Hospital Corpsman attached to the 2nd Marine Division based at Camp LeJeune, North Carolina 1976 to 1980.
Corporate H&S Officer for GA.



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8. **Training For Individuals Working or Frequenting Restricted Areas**
Training for individuals working or frequenting restricted areas consists of approved manufacturer user classes and/or approved on-line courses.
9. **Facilities and Equipment**
No response required as per instructions CFR 1556, Vol. 1, Rev.1.
10. **Radiation Safety Program**
 - 10.1 **Audit Program**
RSO - John L. Grabeel, PG
Previously approved by NRC.
Training as listed in Items 7 & 8 above.
 - 10.2 **Termination of Activities**
Notify NRC within 60 days when principal activities have not been conducted for a period of 24 months or a decision is made to permanently cease license activities.
Certify the disposition of licensed materials by submitting NRC Form 314.
Before a license is terminated, appropriate documents will be submitted to the NRC.
 - 10.3 **Instruments**
GA uses gamma survey monitors- Victoreen Model 492 or equivalent. The monitors are placed beside the driver's seat along with shipping documents as per DOT requirements for HAZMAT transport.
Survey Monitors are calibrated by Atlantic Drilling Supply (formerly Regis Engineering of Montgomery, Alabama. They are a certified repair, calibration and leak test facility for CPN.
 - 10.4 **Material Receipt and Accountability**
GA will maintain records of receipt, transfer and disposal of gauges and conduct physical inventories at intervals not to exceed 6 months, to account for all sealed sources and devices received and possessed under the license.
 - 10.5 **Occupational Dosimetry**
Film badges are provided by Landauer, Inc. and are replaced quarterly. They are Type K.
 - 10.6 **Public Dose**
Gauges will be used, transported and stored in such a way that members of the public will not receive more than 1 millisievert(1mSv) (100 mrem) in one year, and the dose in any unrestricted area will not exceed 2 mrem in any one hour from licensed operations.
Control and maintain constant surveillance over gauges that are not in storage and secure stored gauges from unauthorized removal or use.



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We will implement and maintain the operating procedures as described in the Radiation Safety Program- Operating and Emergency Procedures, NUREG-1556, Vol. 1, Rev. 1.

10.8 Leak Tests

Leak Tests are performed by either the RSO or the user. Training has been provided for leak test procedures in the initial course and through periodic retraining as the need requires. Repair, service, leak tests, calibrations, are performed by Atlantic Drilling Supply in Montgomery, Alabama. Chad Russell is our contact.

10.9 Maintenance

Routine maintenance is performed by the qualified user and, if need be, the RSO. Equipment and procedures comply with regulatory requirements and consider ALARA. Gauges are checked for function prior to use and appropriate steps are taken to ensure that source integrity is not compromised.

Repair, service, leak tests, calibrations, etc., are performed by Atlantic Drilling Supply in Montgomery, Alabama. Chad Russell is our contact.

10.10 Transportation

Gauges are transported in compliance with appropriate DOT regulations.

11. Waste Management

Gauges have been disposed of in the past and appropriate documentation was provided to the NRC. If gauges are disposed of in the future, appropriate documentation and records will be maintained as per NRC requirements.

12. Fees

GA was previously invoiced by the NRC for annual fee 2008.

13. Certification

The application for renewal has been signed.

