July 21, 2015 Via Fax: (630) 515-1259 & USPS

United States Nuclear Regulatory Commission (NRC)

Region III

Attn: Mr. Kevin Null

2443 Warrenville Road, Suite 210

Lisle, IL 60532-4352

Subject: Request to Expedite Materials License Amendment

License No.: 13-32182-01

Dear Mr. Null,

This letter is to request an expedited amendment to our license. As a result of our inspection yesterday July 20, 2015, it was identified that we were not compliance with our license and/or exceeded allowed number of gauges. In December 2014 we obtain used gauges and inadvertently overlooked the procedure to amend them to our license. We are taking immediate corrective actions. Discussion of apparent violation with RSO to determine root cause of violation has been performed.

- Root Cause Determination:
 - Miscommunication with RSO and administrative team. Assumption that the license was completed and submitted was not performed. Corrective Action procedure was completed (see below for corrective action response)
- Corrective Action Response:
 - Short term actions are as follows:
 - Emergency/Expedited Request of amendment to our license.
 - Requested expedited amendment: "Application for Materials License" sent via USPS on July 21, 2015 and copy attached to this fax transmittal.
 - Gauges will be placed "out of service" and will not be used.
 - Gauges will be placed in storage at our facility until gauges are transferred to facility licensed to possess gauges.
 - o Long term actions are as follows:
 - Sell/transfer two of the gauges to a facility licensed to possess Humboldt/Troxler gauges.

The above corrective action compliance was conducted on July 21, 2015.

If you have any questions or if there are any additional requirements that need to be addressed, please let me know at your earliest convenience.

Sincerely

Connie Villafana

Office Manager, Asst. to RSO

Rami M. Anabtawi, PE Radiation Safety Officer (RSO)

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NRC FORM 313 (03-2014) 10 GFR 30, 32, 33, 34 U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 05/31/2016



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 sefaly. Send comments regerding burden estimate to the FOIA, Privacy, and information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to inflocollects. 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. "AMENDMENTS/RENEWALS THAT INCREASE THE SCOPE OF THE EXISTING LICENSE TO A NEW OR HIGHER FEE CATEGORY WILL REQUIRE A FEE.

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 20055-001

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 2100 RENAISSANCE ROULEVARD, SUITE 100 KING OF PRUSSIA, PA 19406-2713 IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, 10WA, 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. 80532-4352

Alaska, arizona, arkansas, california, colorado, mawaii, 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 1600 E LAMAR BOULEVARD ARLINGTON, TX 76011-4511

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.

| 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) | 2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code) | | | | |
| A NEW LICENSE | Geotechnical and Materials Engineers, Inc. | | | | |
| - 12 22 100 O | d/b/a: GME Testing | | | | |
| B. AMENOMENT TO LICENSE NUMBER 13-32182-01 | 3517 Focus Drive | | | | |
| C. RÉNEWAL OF LICENSE NUMBER | Fort Wayne, IN 46818 | | | | |
| 3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED | 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION | | | | |
| 1.)3517 Focus Drive | Rami Anabtawi, PE (RSO) | | | | |
| Fort Wayne, IN 46818 | BUSINESS TELEPHONE NUMBER | BUSINESS CELLULAR TELEPHONE NUMBER | | | |
| Company | 2604978127 | 2606150373 | | | |
| 2.) Temporary jobsites anywhere in the United States where | BUSINESS EMAIL ADDRESS | | | | |
| NRC maintains jurisdiction | rami@gmetesting.com; connie@gmetesting.com | | | | |
| SUBMITITEMS & THROUGH 11 ON 8-1/2 X 111 PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. | | | | | |
| 5. RADIOACTIVE MAYERIAL | 6. PURPOSE(9) FOR WHICH LICENSED MATERIAL WILL BE USED. | | | | |
| Element and mess number; b. chamical and/or physical form; and c. malximum. amount which will be possessed at any one time. | 7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE. | | | | |
| 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS. | 0. FACILITIES AND EQUIPMENT. | | | | |
| 10. RADIATION SAFETY PROGRAM. | 11. WASTE MANAGEMENT. | | | | |
| LICENSE FEES (Fees required only for new applications, with few exceptions') (See 10 GFR 170 and Section 170.31) | FEE CATEGORY | AMOUNT ENCLOSED \$ | | | |
| 13, CERTIFICATION. (Must be completed by epplicant) 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 REQUILATIONS, PARTS 30, 32, 33, 34, 35, 36, 37, 39, AND 40, AND THAT ALL INFORMATION CONTANED 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 C RIMINAL 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 | | | |
| Rami Anabtawi, PE (RSO) | 35 | 7/20/15 | | | |
| FOR NR | CUSE ONLY | Herman (Printer British Street | | | |
| TYRE OF REE | NUMBER: DOMMENTS | van markin | | | |
| APPROVED BY CATE | | | | | |
| | | | | | |

Geotechnical and Materials Engineers, Inc. (d/b/a: GME Testing)
Attachment (Line Items 5-11):
NRC Form 313 US Nuclear Regulatory Commission
Application for Materials License

53

| Model | Troxler 3440 |
|---------------|----------------|
| Serial number | 18527 |
| Cesium-137 | 8 mCl |
| Americium 241 | 40 mCl |
| Model | Troxler 3440 |
| Serial number | 16941 |
| Cesium-137 | 8 mCi |
| Americium 241 | 40 mCi |
| Model | Humboldt 5001P |
| Serial number | 1413 |
| Cesium-137 | 10 mCi |
| Americium 241 | 40 mCi |
| Model | Humboldt 5001C |
| Serial number | 3018 |
| Cesium-137 | 10 mCi |
| Americium 241 | 40 mCi |

- 6.) Compaction Testing (Soils and Asphalt) the measurement of physical properties of materials
- 7.) Rami Anabtawi, PE (RSO Officer)
- 8.) Yes Before using licensed materials (gauges), authorized users will have successfully completed training as described in NUREG 1556, Volume 1
- 9.) 3517 Focus Drive, Fort Wayne, Indiana 46818; Troxler, Siemens and Humboldt: Storage area will comply with public dose limits and sufficient security and control over the gauges.
- 10.) Yes -- Attached
- 11.) Gauge Manufacturer



(07.20.15-revised)

RADIATION SAFETY PLAN

General

This Radiation Safety Plan covers the procedures for the safe and proper use and possession of radioactive material as contained in portable moisture/density gauges used to measure soil and other materials. When handled in accordance with this plan, the radioactive materials present no hazard to the licensee's employees, customers, or the general public.

Radiation Safety Officer

All use and possession will be under the direction and supervision of Rami Anabtawi, PE GME Testing's Radiation Safety Officer (RSO). The RSO is a single point of accountability and responsibility between the Regulatory Agency and the Licensee. The RSO is responsible for all aspects of the Radiation Safety Plan, including the specific duties:

- 1. To ensure that all terms and conditions of the license are being complied with and that the information contained is up-to-date and accurate.
- To ensure that the equipment is leak tested at the required intervals.
- 3. To ensure that the equipment is only used by operators authorized by the RSO, and that they use the equipment in accordance with all relevant regulations. This will include wearing of a suitable personnel monitoring device.
- To maintain records as required by the license and the regulations.
- 5. To ensure that all equipment is properly secured against unauthorized removal at all times.
- 6. To serve as a point of contact and give assistance in case of an emergency such as equipment damage in the field, theft, or fire and to notify the proper authorities in case of emergency.
- To ensure that all operators have read and understand this Radiation Safety Plan.
- 8. To arrange appropriate training for all operators.
- 9. To provide annual refresher training to all gauge operators on operating and emergency procedures, transportation requirements, changes in applicable regulations or license conditions, and correction of deficiencies identified by the RSO.

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Radiation Safety Officer (cont.)

10. To post all required signs and notices at gauge storage location.

Post document RH-2364, Notice to Employees.

Label storage cabinet with "Caution, Radioactive Material" and international symbol.

Post notice of where a copy of the organization's license, safety plan, and copy of regulations are located.

- 11. Annual refresher training will include "dry runs" of emergency procedures. Review of operating and emergency procedures and DOT requirements and that gauge users will be informed of all changes in regulatory requirements and deficiencies identified during annual audits.
- 12. Perform annual audits of the radiation safety program to ensure: (1) that compliance with NRC and DOT regulations and the terms and conditions of the NRC license; and (2) that the radiation safety program is achieving occupational doses and doses to members of the public are ALARA.
- 13. Ensure that results of audits, identified deficiencies and recommendations for change are documented, communicated to all personnel who use licensed material and provided to management for review.
- 14. Ensure that all incidents, accidents, and personnel exposure to radiation in excess of ALARA or Part 20 limits are investigated and reported to NRC and other authorities, as appropriate, with the required time limits.
- 15. Ensure that licensed material is transported in accordance with all applicable DOT requirements.
- 16. Ensure that he or she has up-to-date copies of NRC's regulations, reviews new or amended NRC regulations, and revises licensec procedures, as needed, to comply with NRC regulations.
- 17. Ensure that the license is amended whenever there are changes in licensed activities, responsible individuals, or information or commitments provided to NRC in the licensing process.

Operation

- 1. The operator will exercise suitable control over the gauge at all times. At no time is it to be left unattended or in the possession of an unauthorized person.
- 2. When not being used for field measurements, the gauge will be locked and returned to its storage/transportation case.
- 3. When testing is complete, the gauge will be returned to its permanent place of storage as soon as possible.
- 4. When using the equipment, the operator will wear the personnel monitoring device assigned. When the operator is not using the equipment, the monitoring device will be kept in a radiation free, low heat area.

5. At all-time operators will observe ALARA principles to minimize any dose received:

As Low As Reasonably Achievable

6. While the equipment is in the operator's possession, the operator will have a:

Copy of the License
Copy of this Radiation Safety Plan with Emergency Procedures and
Telephone Call - Down List
Copy of Letter/Card of Authorization from RSO
Copy of the Gauge Operating Manual and
Copy of the Current Leak Test Certificate.

Transportation

- 1. During transportation, the equipment shall be fully secured in the transporting vehicle and located away from personnel. When transported in a closed vehicle (car or van), the case will be locked and the vehicle will be locked when the operator is not with the vehicle. When transported in an open bed vehicle (pick-up truck), the case will be locked and the case securely fastened and locked to the truck bed when the operator is not with the vehicle.
- The equipment will only be transported in an approved DOT shipping container with all the required labels and markings.
- 3. During transportation the operator will have Shipping Papers on the seat adjacent to the driver or in a holder which is mounted to the inside of the door on the driver's side of the vehicle describing the radioactive material with the proper nomenclature. A sample Shipping Paper is attached.
- 4. When an open bed vehicle is parked overnight at a hotel or motel, the operator shall cover the case in the secured transport position or lock the case in the cab of the vehicle.
- 5. When shipping by common carrier, the package shall be in compliance with 49 CFR 170-179.

Maintenance

- 1. Periodic maintenance will include cleaning of the gauge. The operator will have received proper instruction on how to clean the gauge and will wear his/her assigned monitoring device.
- 2. No maintenance will be performed in which the radioactive source is removed from the gauge. The gauge will be returned to the manufacturer or an approved service center for this type of service.
- 3. A leak test will be performed annually (or at the interval specified in the license) using an approved leak test kit provided by CPN/PNT, and in accordance with the gauge manufacturer instructions. The operator will have received proper instruction on how to leak test the gauge and will wear his/her assigned monitoring device.
- 4. The shipping case will be periodically checked for integrity, and to verify that all labels are present and readable.

Records

Records will consist of:

Radioactive Material License Personnel Dosimeter Reports Leak Tests Certificates Training Certificates Gauge Inventory Check-out/Check-in Log

A check-out log will be attached to storage cabinet. Information on log will include scrial number of gauge, operator checking out gauge, date checked out, destination, estimated return date, and actual date of return.

Training

All operators will complete a manufacturer's Operator's Training Course. Operators will be given special training as required for their individual work assignments, or a training course that is approved by NRC or Agreement States.

Management Commitment

Mr. Rami Anabtawi, P.E., who is the Principal Officer and RSO Officer has the authority to stop any unsafe operation using licensed material and has sufficient time to perform radiation safety duties and responsibilities.

EMERGENCY PROCEDURES

Call Down List

See Appendix for Emergency Telephone Numbers

Physical Damage

- 1. If any moving equipment is involved, stop its movement, until the extent of contamination, if any, can be established.
- 2. Cordon off the area around the incident. An area with a radius of fifteen (15) feet will be sufficient.
- 3. Visually inspect the gauge to determine the extent of the damage to the source(s), source housing(s), and shielding. If the source(s), source housing(s) and shielding are intact and functional, the gauge can be removed from the site, returned to the shipping container, and shipped to the manufacturer for repair or replacement.
- 4. If the integrity or location of the source(s) cannot be positively identified, at the earliest possible time, when the situation is under control, contact the RSO. Describe the conditions and follow the instructions of the RSO. The RSO will immediately notify the appropriate regulatory agency.

- The RSO shall follow the instruction of the regulatory agency.
- 6. If the source rod is bent and extended, or the shielding is damaged such that dose rates are likely to exceed those of an undamaged gauge, call the manufacturer for instructions before shipment.

Fire

- Call the Fire Department -- 911.
- Take action appropriate with a fire to protect personnel.
- 3. Notify the RSO.
- 4. Stand by to advice the fire fighters as to the nature, locations, and potential hazards of the radioactive materials. Supply them with an information packet consisting of the facility layout and a data sheet of the equipment including a photograph. Be sure to include any other important information, e.g., explosives, guard dogs, etc.

| Melting Points: | °F | $^{\circ}\mathrm{C}$ |
|----------------------|------|----------------------|
| Stainless Steel 2550 | 1400 | |
| Carbide | 2000 | 1090 |
| Aluminum | 1005 | 540 |
| Lead | 620 | 327 |
| Polyethylene | 257 | 125 |

Temperature in an industrial fire will normally range from 500F° at floor level to a high at the ceiling of 1400 to 1800°F. The polyethylene and lead would melt in most fires, the aluminum only in a severe fire. The stainless steel capsule would not reach its melting point.

Theft or Loss

1. Immediately notify the RSO. The RSO will immediately notify the appropriate regulatory agency and the police.

Disposal/Decommissioning

- Disposal will only be performed by transferring to a properly licensed organization.
- 2. The regulatory agency will be notified 30 or more days in advance of any relocation of the storage area. Formal decommissioning will not be required, provided leak tests are current.

RADIATION SAFETY PLAN

This radiation safety plan will be implemented at all times. A copy of these procedures shall be maintained in the licensee's radioactive materials license file, posted at the storage facility, and another copy in the shipping case of the nuclear gauge at all times.

SIGNED

DATE 7/20/15

Rami Anabtawi, PE Radiation Safety Officer

GME Testing

Telephone Numbers

RADIATION SAFETY OFFICER (RSO) - Rami Anabtawi, PE

Work:

(260) 497-8127

Home:

(260) 459-1676

Cell:

(260) 615-0373

Public Health

Days:

(260) 449-7561

(24 Hour)

Emergency:

(911)

CPN Emergency Assistance

(24 Hour)

INFOTRAC

(800) 535-5053

TROXLER Nuclear Gauge

919-549-9539

NRC Emergency Assistance

(24 Hour)

(301) 816-5100

Sheriff's Ofc.:

Days:

(260) 449-3000

Emergency:

(911)

Fire:

Days:

(260) 427-1170

Emergency:

(911)

Allen County Emergency Management - Edward LaRocque NREM-P

Work:

(260) 449-7684

Pager:

(260) 480-3477 or 401-6087

Allen County Board of Heath

Work:

(260) 449-7561

CPN Business:

Ohio:

(614) 969-2720 CTS -- Willie Cline

California:

(415) 228-9770

GME Testing 3517 FOCUS DRIVE FORT WAYNE, INDIANA 46818 (260) 497-8127

Storage facility will be of adequate size to store all devices authorized by license. Metal fire-proof cabinet located and posted. The storage cabinet will be more than 10 feet from any people work stations. Cabinet includes circuitry for charging, storage for the three (3) nuclear gauges, and all other devices as authorized by NRC will be more than adequate to cover the storage requirements at this location.

Notice to Employees, Utilization Log, Part [10 CFR 19 and 20], copy of the License, Monthly Dosimeter Reports, and Safety plan are posted at Gage Storage facility.

The storage area is not in a residential zone.

Applicant wishes to have no limit on NRC license as these devices will be used at temporary job-sites on various county projects all located within the limits of Allen County, Indiana. These devices will not be used outside the jurisdictional limits of Allen County, Indiana.



3517 FOCUS DRIVE, P.O. BOX 8358, FORT WAYNE, INDIANA 46898 DRISION OF GEOTECHNICAL AND MATERIALS ENGINEERS, INC.

United States Nuclear Regulatory Commission (NRC)-Region III
Attn: Materials Licensing Branch /Mr. Kevin Null
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352



Transmittal Letter

| | erials License Branch in Null | | | Tel: 630-829-9854 |
|--|---|----------------------|---------------|---------------------------------|
| Firm: U.S. Nuclear Regulatory Commission | | Fax: 630-515-1259 | | |
| | nnie Villafana, Offic mi Anabtawi, PE (RS | • | o RSO | |
| • | uest to Expedite Mate use No.: 13-32182-01 | rials License Ame | ndment | Date: 07.21.15 |
| | | | | Pages: 12 including cover sheet |
| ☑Urgent | ☑ For Approval | ☑For Your Use | ☑Please Reply | ☑ As Requested |
| Transmitted V ☐ Other: | /IA: 🗹 Fax 🗹 US Mail (U | SPS) 🗖 Federal Expre | ss 🗖 UPS | ☐Airborne Express/DHL |

Dear Kevin,

Per our discussion today in regards to expediting our license amendment, I'm attaching the following:

- Letter-Request to Expedite Materials License Amendment
- Application for Materials License: B-Amendment to License Number 13-32182-01

If you have any questions, please feel free to contact the office.

Sincerely,

Connie Villafana Office Manager

CC:

Rami Anabtawi, PE, RSO

◆ SITE EXPLORATION ◆ CONSTRUCTION AND LABORATORY MATERIALS TESTING ◆ SOILS & FOUNDATION ENGINEERING ◆ CONSULTING ◆

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