

From: Ullrich, Elizabeth
To: R1LAT RESOURCE
Subject: FW: License Application
Date: Tuesday, June 04, 2019 1:19:04 PM
Attachments: External_Sender_License_Application.msg

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(34-35552-01)
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Please open a new licensing action for Geotechnical Consultants Inc. using the attached letter and email.

Please also add this email to the package. This documents that the applicant discussed his need for an NRC license both with Region 1 and Region 3, and it was decided that Region 1 would process the application because the only location of use/storage would be in Region 1. Records and the official mailing address are in Ohio, but Region 3 felt it would be better for Region 1 to do the licensing because we will be doing the inspection.

The letter and email, and this email, all are: public, non-sensitive, normal release date.

Thanks,
Betsy

Betsy Ullrich, Senior Health Physicist
USNRC Region I
2100 Renaissance Boulevard, Suite 100
King of Prussia, PA 19406
610-337-5040 (office)
240-704-4575 (cell)
Elizabeth.ullrich@nrc.gov

Rec'd in LAT-06/04/2019

612421
NMSC/RGNI MATERIALS-002

From: [Dave Svoboda](#)
To: [Ulrich, Elizabeth](#)
Subject: [External_Sender] License Application
Date: Tuesday, June 04, 2019 11:13:53 AM
Attachments: [NRC_20190604102705.pdf](#)

Elizabeth,

As you know from our telephone conversation earlier this morning, Geotechnical Consultants, Inc. would like to apply for a material license with the NRC.

Attached are forms 313 (appendices A & B), a copy of our Ohio Material License, my original safety certification, and my RSO certification.

I forgot to ask, how much does the license cost annually and how long is it good for before renewal is required?

Thank you and let me know if you need anything else.

David A. Svoboda
Field Services Supervisor
Radiation Safety Officer (RSO)

Geotechnical Consultants, Inc.
720 Greencrest Dr.
Westerville, OH 43081
Main: (614) 895-1400; Fax: (614) 895-1171
Direct: (614) 839-1270
dsvoboda@gci2000.com; www.gci2000.com

Providing our clients value in geotechnical, environmental and construction monitoring services since 1979.

This communication and attachments are intended only for the person to whom it is addressed and may contain confidential and/or privileged material that is the exclusive property of Geotechnical Consultants, Inc. It is being sent to you as a convenience and may not have passed through our standard review process. Design data and recommendations included herein may be subject to alteration. If you are not the intended recipient of this communication or received it in error, you are hereby notified that any use, review, retransmission, dissemination, distribution, reproduction or any action taken in reliance upon this message is prohibited. Also please contact the sender and delete the material from any of your computers. Any views expressed in this message are those of the individual sender and may not necessarily reflect the views of Geotechnical Consultants, Inc.

U.S. Nuclear Regulatory Commission Form 313
Please use the most current version of this form, which may be found at:
<http://www.nrc.gov/reading-rm/doc-collections/forms/>

NRC FORM 313 (10-2015) 10 CFR 30, 32, 33, 34 35, 36, 37, 38, and 40	U.S. NUCLEAR REGULATORY COMMISSION <div style="text-align: center;"> APPLICATION FOR MATERIALS LICENSE </div>	APPROVED BY OMB: NO. 3150-0120 <small>Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submission 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 FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to InfoCollections.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NE08-10202, (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.</small>																		
EXPIRES: 12/31/2015																				
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.																				
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NRC FORM 313 (10-2015)

**Suggested Format for Providing Information Requested in
Items 5 through 11 of
U.S. Nuclear Regulatory Commission Form 313**

Items 5 and 6: Materials To Be Possessed and Proposed Uses

Yes	No	Radionuclide	Manufacturer or Distributor Model No.	Quantity	Use as Listed on SSD Registration Certificate	Specify Other Uses Not Listed on SSD Registration Certificate
		Cesium-137	Gauge manufacturer (or distributor) and model number: <u>CPN MC1DR</u>	Specify activity per source and number of gauges requested. <u>10 mCi</u> <u>1</u>	Yes <input checked="" type="checkbox"/> Specific description of the gauge use: <u>Measurement</u> <u>of Physical</u> <u>properties of</u> <u>materials</u>	<input checked="" type="checkbox"/> Not applicable <input type="checkbox"/> Uses are: (Submit safety analysis supporting safe use.)
		Americium-241	Gauge manufacturer (or distributor) and model number: <u>CPN MC1DR</u>	Specify activity per source and number of gauges requested. <u>50 mCi</u> <u>1</u>	Yes <input checked="" type="checkbox"/> Specific description of the gauge use: <u>Measurement</u> <u>of Physical</u> <u>Properties of</u> <u>Materials</u>	<input checked="" type="checkbox"/> Not applicable <input type="checkbox"/> Uses are: (Submit safety analysis supporting safe use.)

Yes	No	Radionuclide	Manufacturer or Distributor Model No.	Quantity	Use as Listed on SSD Registration Certificate	Specify Other Uses Not Listed on SSD Registration Certificate
		Californium-252	Gauge manufacturer (or distributor) and model number: 	Specify activity per source and number of gauges requested. 	Yes <input type="checkbox"/> Specific description of the gauge use: 	<input type="checkbox"/> Not applicable <input type="checkbox"/> Uses are: (Submit safety analysis supporting safe use.)
		Radium-226	Gauge manufacturer (or distributor) and model number: 	Specify activity per source and number of gauges requested. 	Yes <input type="checkbox"/> Specific description of the gauge use: 	<input type="checkbox"/> Not applicable <input type="checkbox"/> Uses are: (Submit safety analysis supporting safe use.)
		Other Isotope (Specify):	Gauge manufacturer (or distributor) and model number: 	Specify activity per source and number of gauges requested. 	Yes <input type="checkbox"/> Specific description of the gauge use: 	<input type="checkbox"/> Not applicable <input type="checkbox"/> Uses are: (Submit safety analysis supporting safe use.)
Is financial assurance required? If yes, submit evidence of financial assurance.						

**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 Name: _____	Documentation demonstrating the proposed radiation safety officer's training and experience (e.g., certificate of completion of the RSO's course and/or the authorized user's course).	Submit applicable documentation.	
8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS	Before using licensed materials, authorized users will have successfully completed one of the training courses described in the "Criteria" part of the section titled, "Training for Individuals Working in or Frequenting Restricted Areas" in NUREG-1556, Vol. 1, Rev. 2, "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Portable Gauge Licenses."	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. FACILITIES AND EQUIPMENT	Provide a facility diagram for each permanent portable gauge storage location. Include on the diagram the use of adjacent areas (including above and below), and information relevant to public dose and security as discussed in Sections 8.10.5, "Public Dose," and 8.10.6, "Operating, Emergency, and Security Procedures," respectively, in NUREG-1556, Vol. 1, Rev. 2, "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Portable Gauge Licenses"	Submit applicable documentation.	

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
10.1 RADIATION SAFETY PROGRAM—AUDIT PROGRAM	The applicant should not submit its audit program to the NRC for review during the licensing phase. The audit program will be reviewed during NRC inspections.	Need Not Be Submitted with Application	
10.2 RADIATION SAFETY PROGRAM—RADIATION MONITORING INSTRUMENTS	We will either possess and use, or have access to and use, a radiation survey meter that meets the criteria in the section titled, "Radiation Safety Program—Radiation Monitoring Instruments" in NUREG-1556, Vol. 1, Rev. 2, "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Portable Gauge Licenses," in the event of an incident.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10.3 RADIATION SAFETY PROGRAM—MATERIAL RECEIPT AND ACCOUNTABILITY	Physical inventories will be conducted every 6 months or at other intervals approved by the NRC to account for all sealed sources and devices received and possessed under the license. AND We will develop, implement, and maintain procedures for ensuring accountability of licensed materials at all times.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10.4 RADIATION SAFETY PROGRAM—OCCUPATIONAL DOSE	We will maintain, for inspection by the NRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of the limits in 10 CFR 20.1502(a). OR We will provide and require the use of individual monitoring devices (dosimetry). All personnel dosimeters that require processing to determine the radiation dose will be processed and evaluated by a NVLAP-approved processor.	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>

OHIO DEPARTMENT OF HEALTH LICENSE FOR RADIOACTIVE MATERIAL

Pursuant to Chapter 3748 of the Ohio Revised Code, and in reliance on statements and representations made by the licensee, a license is hereby issued authorizing the licensee named herein to receive, acquire, possess, and transfer radioactive material as designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the applications of Chapter 3748 of the Ohio Revised Code and all applicable rules promulgated thereunder. This license is subject to all applicable rules, regulations and orders of the Ohio Department of Health now or hereinafter in effect and to any conditions specified below.

LICENSEE	LICENSE NUMBER
1. Geotechnical Consultants, Inc.	3. 31210250023
	EXPIRATION DATE
2. 720 Greenerest Drive	4. May 1, 2024
Westerville, OH 43081-2387	FILE NUMBER - ID NUMBER
	5. 501088-15053

- | | | |
|---|--|--|
| 6. RADIOACTIVE MATERIAL
A. Cesium-137

B. Americium-241:Be

C. Cesium-137

D. Americium-241:Be | 7. CHEMICAL AND/OR PHYSICAL FORM
A. Sealed source

B. Sealed source

C. Sealed source

D. Sealed source | 8. MAXIMUM QUANTITY THAT LICENSEE MAY POSSESS AT ANY ONE TIME UNDER THIS LICENSE
A. No single source to exceed 370 MBq (10 mCi), total possession not to exceed 11.47 GBq (310 mCi)
B. No single source to exceed 1.85 GBq (50 mCi), total possession not to exceed 57.35 GBq (1.55 Ci)
C. No single sources to exceed 333 MBq (9 mCi), total possession not to exceed 666 MBq (18 mCi)
D. No single sources to exceed 1.63 GBq (44 mCi), total possession not to exceed 3.26 GBq (88 mCi) |
|---|--|--|

9. Authorized Use
- A. and B. (31 gauges) To be used in CPN International Model MC Series PORTAPROBE gauges for measuring physical properties of materials.
- C. and D. (2 gauges) To be used in Troxler Model 3400 Series moisture/density gauges for measuring physical properties of materials.

CONDITIONS

10. Licensed material may only be used at the licensee's facilities located at:
 - A. 720 Greenerest Drive, Westerville, OH 43081-2387
 - B. 8433 South Avenue, Building 1, Suite 1, Boardman OH 44514
 - C. 2380 Bellbrook Avenue, Suite 39-BC, Xenia, Ohio 45385
 - D. Temporary jobsites anywhere in the state of Ohio.
11. The Radiation Safety Officer for this license is: David A. Svoboda
12. Licensed material shall be used by, or under the supervision, of individuals who have received the training described in the renewal application dated February 8, 2019 or have completed the manufacturer's training program and have been approved in writing by the Radiation Safety Officer.
13. All sealed sources that are used or obtained shall have been evaluated or approved under the provisions of OAC 3701:1-46-49, or equivalent NRC or Agreement State regulation.
14. Sealed sources shall be tested for leakage and/or contamination in accordance with OAC 3701:1-38-24.
15. Sealed sources containing radioactive material shall not be opened or removed from their respective source holders by the licensee.

OHIO DEPARTMENT OF HEALTH
LICENSE FOR RADIOACTIVE MATERIALS
SUPPLEMENTARY SHEET

Page 2 of 2

License Number: 31210250023

File Number - ID Number: 501088-15053

Amendment No. 23

16. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for at least 3 years from the date of each inventory, and shall include: the quantities and kinds of licensed material, manufacturers name and model numbers, location of the sources and/or devices, and the date of the inventory.
17. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage, or when not under the direct surveillance of an authorized user.
18. When performing tests at temporary job sites, the authorized user shall not leave the moisture density gauge unattended. Upon completion of tests the device shall be locked in the licensee's vehicle or a secure building to prevent unauthorized use, loss or theft.
19. Each portable nuclear gauge must be secured with a minimum of two independent physical controls that form tangible barriers to secure portable gauges from unauthorized removal, whenever portable gauges are not under the control and constant surveillance of the licensee, in accordance with OAC 3701:1-40-16(H).
20. The licensee may transport licensed material in accordance with the provisions of OAC 3701:1-50.
21. Any cleaning, maintenance, or repair of the gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or other persons specifically licensed by the Director, the NRC or an Agreement State to perform such services.
22. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of sealed source licensed material to quantities below the minimum limit specified in OAC 3701:1-40-17 for establishing decommissioning financial assurance.
23. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures. The Ohio Department of Health's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. Renewal application dated February 8, 2019; Amendment 23 renews license number 31210250023 in its entirety.

For the Ohio Department of Health

DATE: 2-26-19

BY:

Gene Phillips, RS

W. Gene Phillips, MBA, RS
Chief, Bureau of Environmental Health and Radiation Protection
on behalf of the Director of Health

No 17988

Certificate Of Completion

This is to certify that DAVID A. SVOBODA has completed the
basic training course on Radiation Safety and Use of Nuclear Gauges,
held this 15th day of MAY 1991, held in the
City of STOUTSVILLE State of OHIO by CPN Company.

Willie Cline

WILLIE CLINE



Willie Cline

RADIATION SAFETY OFFICER
WILLIE CLINE



Certificate of Completion

This is to certify that:

David A. Svoboda

Has completed a **Radiation Safety Officer** course and the use of portable density / moisture devices, (Nuclear Density / Moisture Gauge), as per U.S. NRC NUREG 1556, vol.1, rev 1 and Agreement State requirements. To include initial Haz-Mat training required by IATA and U.S. Department of Transportation, 49 CFR, 172, Sub H and security awareness during transportation.

This training presentation by: Willie Cline / CTS, Inc. RSO

Willie Cline

Cline's Technical Services, Inc.

www.clinetechnicalservices.com

course content on page 2 of certificate

For Nuclear Gauge Radiation Safety Officer.

Contents of Course

Principles and Practices of Radiation Protection

Theory, terminology, and practical explanation of Radioactive Materials, License requirements, Storage, Transportation (to include HAZ-MAT training required by US DOT 49 CFR, 172, sub H and security awareness) and Emergency Procedures to be used with portable nuclear devices of "soil, agriculture, roof, asphalt and other construction gauges" using small (not more than 300 millicurie) sources in sealed capsules.

Radioactive Measurement Standardization and Monitoring Techniques and Instruments

Demonstration of radiation levels typical with use of small, portable devices using conventional survey meter. Concentration on Inverse Square Law factors, effects of shielding, time, and distance in use of materials.

Mathematics and Calculation basic to use and measurement of Radioactivity

Determination of typical radiation levels in mrems with distance of a typical portable "construction device", calculation of probable weekly radiation dose under a heavy work condition, and relation of that dose to the NRC maximum annual allowances for occupational use of radioactivity.

Establishment of relationship of this occupational dose to that obtained from normal life exposures of external radiation at sea level and high elevations, jet plain travel, normal health X-RAYS, ect.

Biological effect of Radiation

General presentation of effects of low level radiation on the body with emphasis on the relationship of routine life style exposure (environmental, routine medical, smoking, etc.) to the added exposure from normal use of portable devices using millicurie sources.



ACKNOWLEDGEMENT - RECEIPT OF CORRESPONDENCE

Name and Address of Applicant and/or Licensee

Geotechnical Consultants, Inc.
ATTN: Bruce A. Savage, President
720 Greencrest Drive
Westerville, OH 43081

Date

June 11, 2019

License Number(s)

New License Application

Mail Control Number(s)

612421

Licensing and/or Technical Reviewer or Branch

Commercial, Industrial, R&D, & Academic Branch

This is to acknowledge receipt of your: ☐ Letter and/or ☒ Application Dated: 06/04/2019

The initial processing, which included an administrative review, has been performed.

☐ Amendment ☐ Termination ☒ New License ☐ Renewal

☒ There were no administrative omissions identified during our initial review.

☐ This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

☒ Your application for a new NRC license did not include your taxpayer identification number. Please complete and submit NRC Form 531, Request for Taxpayer Identification Number, located at the following link: <http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>
Follow the instructions on the form for submission.

☐ The following administrative omissions have been identified:

Your application has been assigned the above listed MAIL CONTROL NUMBER. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Region I
U. S. Nuclear Regulatory Commission
Division of Nuclear Materials Safety
2100 Renaissance Boulevard, Suite 100
King of Prussia, PA 19406-2713
(610) 337-5260, (610) 337-5313,
(610) 337-5398, or (610) 337-5239