

May 7, 2013

Nuclear Materials Licensing Section U.S. Nuclear Regulatory Commission, Region IV 612 East Lamar Boulevard, Suite 400 Arlington, Texas 76011-4125



Re: Amendment to Radioactive Material License No. 53-23231-01

I would like to request an amendment to the above referenced license to authorize Geolabs, Inc. to add three additional InstroTek, Inc. Model 3500 Xplorer nuclear moisture/density gauges to our current inventory and one Troxler Model 3400 Series portable gauge.

I would also like to add a storage facility to our current locations at: 100 Rapozo Crossing Road Lihue, Hawaii 96766 (island of Kauai)

If you need additional information, please contact me or email me at <a href="mailto:lab@geolabs.net">lab@geolabs.net</a>

Sincerely,

Steven Asato, Radiation Safety Officer

Enclosure: Copy of Materials License – Amendment No. 15

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☐ 1 J Secsitive Security Related

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Reviewer:\_

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NRC FORM 374

## U.S. NUCLEAR REGULATORY COMMISSION

PAGE <u>1</u> OF <u>4</u> PAGES Amendment No. 15

## MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material 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 regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee	In accordance with	n letter dated
	October 7, 2011	
Geolabs, Inc.	3. License number 5	3-23231-01 is amended in
	its entirety to read	as follows:
2006 Kalihi Street	4. Expiration date Au	igust 31, 2020
Honolulu, Hawaii 96819	5. Docket No. 030-2	0393
	its entirety to read  4. Expiration date Au  5. Docket No. 030-20  Reference No.	>
Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	Maximum amount that licensee may possess at any one time under this license
A. Cesium-137	A. Sealed sources (AEA Technology/QSA, Inc., Model No. CDCW556; or Isotope 2 Products Laboratories Model No. HEG-137)	A. 9 millicuries per source and 135 millicuries total
B. Americium-241:Be	8. Sealed neutron sources (AEA.: Technology/QSA, Inc., Model No. AMNV.997; or Isotope Products Laboratories Model Nos. AM1.NO2, 3021 or 3027)	B. 44 millicuries per source and 660 millicuries total
C. Cesium-137	C. Sealed sources (AEA Technology/QSA, Inc., Model No. CDC.805; or Isotope Products Laboratories Model No. HEG-137)	C. 11 millicuries per source and 44 millicuries total
D. Americium-241:Be	D. Sealed neutron sources (AEA Technology/QSA, Inc., Model No. AMNV.997; or Isotope Products Laboratories Model Nos. AM1.NO2)	D. 44 millicuries per source and 176 millicuries total

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	n e						

Authorized use:

A. and B.

To be used in Troxler Electronic Laboratories, Model 3400 Series portable gauging

devices for measuring physical properties of materials.

C. and D.

To be used in InstroTek Inc., Model 3500 Xplorer portable gauging devices for

measuring physical properties of materials.

## CONDITIONS

- 10. Licensed material may be used or stored only at the licensee's facilities located at:
  - A. 2006 Kalihi Street, Honolulu Hawaii (island of Oahu),
  - B. 74-5039 B Queen Kaahumanu Highway, Kona, Hawaii (island of Hawaii),
  - C. 780 Alua Street, Wailuku, Maui, Hawaii (island of Maui), and
  - D. Temporary job sites anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction within Agreement States

If the jurisdiction status of a Federal acility within an agreement state is unknown, the licensee should contact the federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under excl. Ve Federal jurisdiction shall be obtained from the appropriate state regulatory agency.

- Licensed materials may be used by or under the supervision and in the physical presence of, individuals who have received the training described in the application dated April 16, 2010.
- 12. The Radiation Safety Officer (RSO) for this license is Steven K. Asato.
- 13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State.
  - B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested and the test results received.
  - C. Sealed sources need not be tested if they are in storage and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

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- D. The leak test shall be capable of detecting the presence of 0.005 microcuries (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcuries (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 612 East Lamar Blvd., Suite 400, Arlington, Texas 76011-4125, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken.
- E. Tests for leakage and/or contamination shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. In addition, the licensee is authorized to collect leak test samples but not perform the analysis; analysis of leak test samples must be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
- F. Records of leak tests results shall be kept in units of microcuries and shall be maintained for 3 years.
- 14. Sealed sources or source rods containing licensed material shall not be opened or sources removed or detached from source rods or gauges by the licensee except as specifically authorized.
- 15. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/of devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
- 16. Except for maintaining labeling as required by 10 CFR Part 20 or 71, the licensee shall obtain authorization from U.S. Nuclear Regulatory Commission before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the respective Certificates of Registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.
- 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. 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 U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- 19. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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- 20. A. If the licensee uses unshielded sealed sources extended more than 3 feet below the surface, the licensee shall use surface casing that extends from the lowest depth to 12 inches above the surface and other appropriate procedures to reduce the probability of the source or probe becoming lodged below the surface. If it is not feasible to extend the casing 12 inches above the surface, the licensee shall implement procedures to ensure that the cased hole is free of obstruction before making measurements.
  - B. If a sealed source or a probe containing sealed sources becomes lodged below the surface and it becomes apparent that efforts to recover the sealed source or probe may not be successful, the licensee shall notify the U.S. Nuclear Regulatory Commission and submit the report required by 10 CFR 30.50(b)(2) and (c). The licensee shall not abandon the sealed source or probe without obtaining the Commission's prior written consent. Notification and reporting requirements should be made to the NRC Emergency Operations Center at 301-816-5100.
- 21. 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, listed below. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated April 16, 2010 (ML10 540241)

B. Letter dated April 19, 2010 (ML1915402

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date November 21, 2011

Roberto J. Torres, Senior Health Physicist

Nuclear Materials Safety Branch B

Region IV

Arlington, Texas 76011-4125



2006 Kalihi Street · Honolulu, Hawaii 96819



Nuclear Materials Licensing Section
U.S. Nuclear Regulatory Commission, Region IV

612 East Lamar Boulevard, Suite 400 Arlington, Texas 76011-4125

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BUCCEAR REQUIENCE DATE	
DATE 06/07/20	13
NAME AND ADDRESS OF APPLICANT AND/OR LICENSEE	LICENSE NUMBER
GEOLABS, Inc. ATTN: Steven Asato Radiation Safety Officer 2006 Kalihi Street Honolulu, HI 96819	53-23231-01  MAIL CONTROL NUMBER  580870  LICENSING AND/OR TECHNICAL REVIEWER  cmurnahan
This is to acknowledge the receipt of your:	
<ul> <li>✓ There were no administrative omissions identified during the completed of your application for reabove. Your application is deemed timely filed, and accomplication has been taken by this office.</li> <li>✓ Your application for a new NRC license did not include Please fill out NRC Form 531, located at the following limitate. In the completed NRC Form 531, by facsimile, to the A copy of your action has been emailed to our License our Headquarters office in Rockville, MD. You will be completed NRC form 531.</li> </ul>	enewal of the material(s) license identified cordingly, the license will not expire until your taxpayer identification number. ink:  ollections/forms/nrc531.pdf are following number: (301) 415-5387  Fee and Accounts Receivable Branch, in
involved.  Your application has been assigned the above listed Macalling to inquire about this action, please refer to this constant been forwarded to a technical reviewer. Please note the normally completed within 180 days for a renewal application application and inconcerning the processing of your application, our contains.	control number. Your application has lat the technical review, which is cation (90 days for all other requests), information. If you have any questions

Region IV U. S. Nuclear Regulatory Commission DNMS/NMSB - B 1600 E. Lamar Blvd. Arlington, TX 76011-4511 (817) 200-1103 or (817) 200-1140

BETWEEN:  Accounts Receivable, and Regional Licensing B			[ FOR ARPB USE ] INFORMATION FROM WBL  Program Code: 03121 Status Code: Pending Amendment Fee Category: 3P Exp. Date: 11/30/2010 Fee Comments: Decom Fin Assur Reqd: N
A. REGION	orksheet - Lic	ense Fee	e Transmittal
1. APPLICATION ATTAC Applicant/Licensee: Received Date: Docket Number: Mail Control Number: License Number: Action Type:	GEOLABS, INC. 05/15/2013 3020393		
2. FEE ATTACHED  Amount:  Check No.:	_		
	Signed:	Collee 5-21	Murnahan
B. LICENSE FEE MANAGE  1. Fee Category and Am	EMENT BRANCH (		
Deneweli	ication may be proce	essed for:	
3. OTHER			_

Signed:

Date: