

# HANSON TESTING & ENGINEERING, INC.

2731 EASTSIDE PARK DRIVE  
EVANSVILLE, INDIANA 47715

PHONE: 812-477-8981

FAX: 812-477-8982

December 3, 2018

Material Licensing Section  
U.S. Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road, Suite 210  
Lisle, Illinois, 60532-4352

Re: Troxler Nuclear Moisture-Density Gauges  
Transfer of Ownership/ Proper Disposal  
HTE NRC Material License #13-16910-01

Dear Sir or Madam:

The purpose of this document is to record the transfer of ownership by Hanson Testing & Engineering, Inc. (HTE) of three (3) Troxler Nuclear Moisture-Density gauges. The sealed radioactive sources in the gauges are regulated by the U.S. Nuclear Regulatory Commission (NRC). As required by the NRC, the transfer of ownership of the material may only occur if both the buyer and the seller have valid licenses. One (1) gauge was transferred to Troxler Electronic Laboratories, Inc. of Research Triangle Park, North Carolina. The other two (2) gauges were transferred to Alpine Geotechnical of Kalispell, Montana.

Listed below is the information pertaining to the buyers and three (3) gauges. Copies of the letters of transfer are included for your reference along with NRC Form 314 and the most recent leak tests.

| <u>Gauge</u><br><u>Manufacture</u> | <u>Model #</u> | <u>Gauge</u><br><u>Serial #</u> | <u>AM-241:BE</u><br><u>Serial #</u> | <u>CS-137</u><br><u>Serial #</u> | <u>Buyer</u>           | <u>Buyer</u><br><u>License</u>  |
|------------------------------------|----------------|---------------------------------|-------------------------------------|----------------------------------|------------------------|---------------------------------|
| Troxler                            | 3411           | 6729                            | 47-2981<br>(1.48 GBq)               | 40-3864<br>(0.3 GBq)             | Troxler                | #032-0182-1<br>(North Carolina) |
| Troxler                            | 3430           | 60911                           | 79-4876<br>(1.48 GBq)               | 77-7876<br>(0.3 GBq)             | Alpine<br>Geotechnical | 25-35211-01<br>(NRC)            |
| Troxler                            | 3440           | 15502                           | 47-10894<br>(1.48 GBq)              | 50-4463<br>(0.3 GBq)             | Alpine<br>Geotechnical | 25-35211-01<br>(NRC)            |

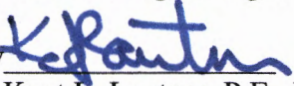
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U.S. Nuclear Regulatory Commission  
Region III  
Attn: Materials License Section  
December 3, 2018

Since ownership of the three (3) Troxler gauges has been transferred to corporations with valid licenses to possess the above-mentioned radioactive sources and HTE owns no other equipment containing regulated material, HTE is requesting the NRC to cancel HTE's license prior to the end of this calendar year.

Hanson Testing & Engineering, Inc. has sold the assets of the company and the owners are retiring on or before December 31, 2018. If you have any questions regarding this letter, please contact Kent L. Lautner at (812)-477-8981 or (812)-305-0993.

Respectfully submitted,  
Hanson Testing & Engineering, Inc.

By   
Kent L. Lautner, P.E., RSO  
President

Attachments

- NRC Form 314
- Most recent leak tests
- Letter of Transfer from Troxler Electronics
- Letter of Transfer from Alpine Geotechnical
- NRC License - Hanson Testing & Engineering, Inc.



# **CERTIFICATE OF DISPOSITION OF MATERIALS**

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. 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 e-mail to [InfoCollections.Resource@nrc.gov](mailto:InfoCollections.Resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NIOB-10202, (3150-0028), 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.

## LICENSEE NAME AND ADDRESS

Hanson Testing & Engineering, Inc.  
2731 Eastside Park Road  
Evansville, Indiana 47715

## LICENSE NUMBER

13-16910-01

## DOCKET NUMBER

030-11846

## LICENSE EXPIRATION DATE

September 30, 2022

**A. LICENSE STATUS (Check the appropriate box)**

- ☐ This license has expired. ☒ This license has not yet expired; please terminate it.

**B. DISPOSAL OF RADIOACTIVE MATERIAL**

*(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)*

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- ☐ 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
- ☒ 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner.
- ☒ a. Transfer of radioactive materials to the licensee listed below:  
Alpine Geotechnical-Kalispell, MT 406-257-6479 NRC License #25-35211-01 Attn: Kagan Rutz, RSO Transferred 11-29-18  
Troxler Electronic Laboratories-Research Triangle Park, NC 919-549-8661 North Carolina #032-0182-1 Attn: Emily Davis  
Transferred 07-02-18
- ☐ b. Disposal of radioactive materials:
- ☐ 1. Directly by the licensee:
- ☐ 2. By licensed disposal site:
- ☐ 3. By waste contractor:
- ☐ c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

**C. SURVEYS PERFORMED AND REPORTED**

- ☐ 1. A radiation survey was conducted by the licensee. The survey confirms:
- ☐ a. the absence of licensed radioactive materials
- ☐ b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
- ☐ 2. A copy of the radiation survey results:
- ☐ a. is attached; or ☐ b. is not attached (Provide explanation); or ☐ c. was forwarded to NRC on: \_\_\_\_\_ Date \_\_\_\_\_
- ☒ 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
- ☒ a. The results of the latest leak test are attached; and/or ☒ b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

| NAME            | TITLE          | TELEPHONE (Include Area Code) | E-MAIL ADDRESS                                               |
|-----------------|----------------|-------------------------------|--------------------------------------------------------------|
| Kent L. Lautner | President, RSO | 812-477-8981                  | <a href="mailto:hanson1@sigecom.net">hanson1@sigecom.net</a> |

Mail all future correspondence regarding this license to:

2731 Eastside Park Road - Evansville, Indiana 47715

**C. CERTIFYING OFFICIAL**

**I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT**

## PRINTED NAME AND TITLE

Kent L. Lautner, President, RSO

## SIGNATURE

## DATE

December 3, 2018

**WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 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.**

**Troxler Electronic Laboratories, Inc.**

3008 Cornwallis Rd., P.O. Box 12057

Research Triangle Park, NC 27709

Tel: (877) 876-9537 Fax: (866) 391-2759

License: NC 032-0182-1

ELIZABETH HANSON  
HANSON TESTING & ENGINEERING, INC.  
2731 EASTSIDE PARK DRIVE  
EVANSVILLE, IN 47715

Cust ID: 815

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**LEAK TEST CERTIFICATE**

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**DEVICE:****Model:** 3411**Serial No:** 6729**SEALED SOURCES:**

| Serial No. | Measure Date | Nuclide   | GBq   | mCi |
|------------|--------------|-----------|-------|-----|
| 47-2981    | 09/11/1979   | Am-241:Be | 1.48  | 40  |
| 40-3864    | 09/11/1979   | Cs-137    | 0.296 | 8   |

**LEAK TEST ANALYSIS:****Sample collected on:** 02/05/2018**Sample analyzed on:** 02/08/2018 2:24:08 PM **Position:** 21**Analyzed by:** STW

|                               | ALPHA    | BETA-GAMMA |
|-------------------------------|----------|------------|
| Conversion factor (cpm/Bq)    | 1.21E+01 | 2.02E+01   |
| Background measurement (cpm)  | 0        | 25         |
| Sample measurement (cpm)      | 0        | 14         |
| Activity (Bq)                 | < MDA    | < MDA      |
| Min. Detectable Activity (Bq) | 4.2E-01  | 1.3E+00    |

**This certifies that the leak test results are:**☒ **Less than 185 Bq (0.005 uCi)**☐ **Greater than 185 Bq (0.005 uCi)**

**Troxler Electronic Laboratories, Inc.**

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ELIZABETH HANSON  
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EVANSVILLE, IN 47715

Cust ID: 815

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**LEAK TEST CERTIFICATE**

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**DEVICE:****Model:** 3440**Serial No:** 15502**SEALED SOURCES:**

| Serial No. | Measure Date | Nuclide   | GBq   | mCi |
|------------|--------------|-----------|-------|-----|
| 50-4463    | 01/22/1988   | Cs-137    | 0.296 | 8   |
| 47-10894   | 11/17/1987   | Am-241:Be | 1.48  | 40  |

**LEAK TEST ANALYSIS:****Sample collected on:** 02/05/2018**Sample analyzed on:** 02/08/2018 2:21:43 PM **Position:** 19**Analyzed by:** STW

|                               | ALPHA    | BETA-GAMMA |
|-------------------------------|----------|------------|
| Conversion factor (cpm/Bq)    | 1.21E+01 | 2.02E+01   |
| Background measurement (cpm)  | 0        | 25         |
| Sample measurement (cpm)      | 0        | 21         |
| Activity (Bq)                 | < MDA    | < MDA      |
| Min. Detectable Activity (Bq) | 4.2E-01  | 1.3E+00    |

**This certifies that the leak test results are:****Less than 185 Bq (0.005 uCi)****Greater than 185 Bq (0.005 uCi)**

**Troxler Electronic Laboratories, Inc.**

3008 Cornwallis Rd., P.O. Box 12057

Research Triangle Park, NC 27709

Tel: (877) 876-9537 Fax: (866) 391-2759

License: NC 032-0182-1

ELIZABETH HANSON  
HANSON TESTING & ENGINEERING, INC.  
2731 EASTSIDE PARK DRIVE  
EVANSVILLE, IN 47715

Cust ID: 815

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**LEAK TEST CERTIFICATE**

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**DEVICE:****Model:** 3430**Serial No:** 60911**SEALED SOURCES:**

| Serial No. | Measure Date | Nuclide   | GBq   | mCi |
|------------|--------------|-----------|-------|-----|
| 78-4876    | 12/19/2007   | Am-241:Be | 1.48  | 40  |
| 77-7876    | 03/12/2008   | Cs-137    | 0.296 | 8   |

**LEAK TEST ANALYSIS:****Sample collected on:** 02/05/2018**Sample analyzed on:** 02/08/2018 2:22:56 PM **Position:** 20**Analyzed by:** STW

|                               | ALPHA    | BETA-GAMMA |
|-------------------------------|----------|------------|
| Conversion factor (cpm/Bq)    | 1.21E+01 | 2.02E+01   |
| Background measurement (cpm)  | 0        | 25         |
| Sample measurement (cpm)      | 0        | 22         |
| Activity (Bq)                 | < MDA    | < MDA      |
| Min. Detectable Activity (Bq) | 4.2E-01  | 1.3E+00    |

**This certifies that the leak test results are:****Less than 185 Bq (0.005 uCi)****Greater than 185 Bq (0.005 uCi)**



Troxler Electronic Laboratories, Inc. - Troxler International, Ltd.  
3008 Cornwallis Road, P.O. Box 12057, Research Triangle Park, NC 27709 - USA  
Telephone: 919/549 8661 Telefax: 919/549/0761

July 3, 2018

Hanson Testing & Engineering, Inc.  
Attn: Kent Lautner  
2731 Eastside Park Drive  
Evansville, IN 47715

Attn: Kent Lautner

This is to acknowledge receipt and transfer of ownership of the nuclear gauge(s) listed below, and the radioactive sources contained therein, to Troxler under North Carolina Radioactive Material License #032-0182-1. You should retain this letter in your files for future reference.

Date Received: 07-02-18

Job Number  
58002

Model  
3411

Serial Number  
6729

Regards,  


Emily Davis  
Service/Repair Department  
Troxler Electronics

**Alpine Geotechnical**  
1075 Trumble Creek Road, Unit A  
Kalispell, Montana 59901  
PHONE: 406-257-6479

Hanson Testing & Engineering, Inc.  
2731 Eastside Park Road  
Evansville, Indiana 47715

Attn: Kent Lautner, PE  
President, RSO

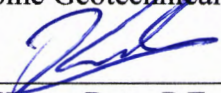
Re: Transfer of ownership of Troxler Moisture-Density Gauges

This is to acknowledge the receipt and transfer of ownership of the Troxler moisture-density gauges listed below and the radioactive sources contained within to Alpine Geotechnical (NRC License #25-35211-01). Please retain a copy of this letter for your records.

| <u>Gauge Manufacturer</u> | <u>Model #</u> | <u>Serial #</u> | <u>Date Received</u> |
|---------------------------|----------------|-----------------|----------------------|
| Troxler Electronics, Inc. | 3430           | 60911           | November 29, 2018    |
| Troxler Electronics, Inc. | 3440           | 15502           | November 29, 2018    |

Do not hesitate to contact me if you have any questions.

Sincerely,  
Alpine Geotechnical

By   
Kagan Rutz, P.E., RSO  
President

**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 application dated <b>April 9, 2012</b> ,                                      |  |
| 1. Hanson Testing & Engineering, Inc.                                                                               |                                                                                                                                                                                     | 3. License number 13-16910-01 is renewed in its entirety to read as follows:                     |  |
| 2. 2731 Eastside Park Drive<br>Evansville, IN 47715                                                                 |                                                                                                                                                                                     | 4. Expiration date <b>September 30, 2022</b>                                                     |  |
|                                                                                                                     |                                                                                                                                                                                     | 5. Docket No. 030-11846<br>Reference No.                                                         |  |
| 6. Byproduct, source, and/or special nuclear material                                                               | 7. Chemical and/or physical form                                                                                                                                                    | 8. Maximum amount that licensee may possess at any one time under this license                   |  |
| A. Cesium-137                                                                                                       | A. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license. | A. No single source to exceed 9 millicuries each. Total activity not to exceed 180 millicuries.  |  |
| B. Americium-241                                                                                                    | B. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license. | B. No single source to exceed 44 millicuries each. Total activity not to exceed 880 millicuries. |  |
| 9. Authorized use:                                                                                                  |                                                                                                                                                                                     |                                                                                                  |  |
| A. and B. In Troxler Model No. 3400 Series portable gauging devices for measuring physical properties of materials. |                                                                                                                                                                                     |                                                                                                  |  |

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number

13-16910-01

Docket or Reference Number

030-11846

**Amendment No. 7**CONDITIONS

10. Licensed material may be used or stored at the licensee's facilities located at 2731 Eastside Park Drive, Evansville, Indiana and may be used at temporary job sites of the licensee anywhere in the United States where the U. S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in application dated August 2, 2012.
12. The Radiation Safety Officer (RSO) for this license is Kent L. Lautner.
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 NRC 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 NRC 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.
  - 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.
  - D. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (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.
  - E. The licensee is authorized to collect leak test samples for analysis by Troxler. Alternatively, tests for leakage and/or contamination may 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/or devices received and possessed under the license.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
13-16910-01Docket or Reference Number  
030-11846**Amendment No. 7**

16. Except for maintaining labeling as required by 10 CFR Part 20 or 71, the licensee shall obtain authorization from NRC 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. A minimum of two independent physical controls that form tangible barriers to secure portable gauges from unauthorized removal whenever the portable gauge is not under the control and constant surveillance of the licensee are required.
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."
20. 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 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. Applications dated April 9, 2012 and August 2, 2012.

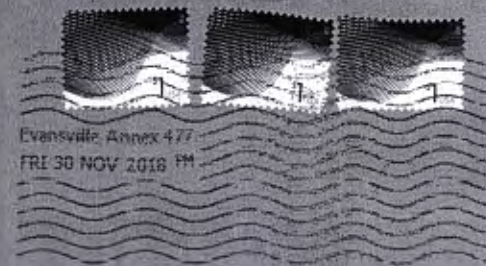
FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date SEP 05 2012

By

  
Frank P. D. Tran  
Materials Licensing Branch  
Region III

Hanson Testing & Engineering, Inc.  
2731 Eastside Park  
Evansville, IN 47715



RECEIVED DEC 10 2018

Material Licensing Section  
U.S. Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

