

CERTIFICATE OF DISPOSITION
OF MATERIALS

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Licensee Name and Address

Roof Consulting Services, Inc.
1660 Mountain Road
Glen Allen, VA 23060

License Number

45-19953-02

Docket Number

030-29973

Expiration Date

03/31/2038

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.☒ 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:

Infra-red Analyzers Inc. - VT License #44-2840402 and Troxler Labs NC License #032-0181

☒ b. Disposal of radioactive materials:☐ 1. Directly by the licensee:☒ 2. By licensed disposal site:

Troxler Labs - NC License #032-0192-1

☐ 3. By waste contractor:☐ c. All radioactive materials have been removed, any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.☐ d. Acknowledgment of receipt of the material by transfer or by disposal site is attached:

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 the NRC

Email Address: _____ 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 Number (Include area code)	E-mail Address
Brian Jones	Radiation Safety Officer	804-515-0885	bjones@roofdesign.com

Mail all future correspondence regarding this license to:

Brian Jones - bjones@roofdesign.com

C. CERTIFYING OFFICIAL

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

Printed Name and Title	Signature of Certifying Official	Date
Brian M Jones RSO		5/28/24

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.

CERTIFICATE OF DISPOSITION OF MATERIALS

PLEASE READ THESE INSTRUCTIONS BEFORE COMPLETING NRC FORM 314.

Subpart E of 10 CFR Part 20 establishes the radiological criteria for license terminations/decommissioning of facilities licensed under 10 CFR Parts 30, 40, 50, 60, 61, 70, and 72, as well as other facilities subject to the Commission's jurisdiction under the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974, as amended.

INSTRUCTIONS

Section B, Item 2.

Licensees should describe the specific radioactive material transfer actions. If radioactive wastes were generated in terminating this license, the licensee should describe the disposal actions taken, including the disposition of low-level radioactive waste, mixed waste, greater-than-Class-C waste, and sealed sources.

Section B, Item 2.a.

The information provided concerning the transfer of radioactive material to another licensee should specify the date of the transfer, the name of the licensee recipient, an individual contact name and telephone number for the licensee recipient, and the recipient's NRC or Agreement State license number.

Section B, Item 2.b.

For disposal of radioactive materials, licensees should describe the specific disposal method or procedure (e.g., decay-in-storage). For those cases when radioactive materials are disposed of by a licensed disposal site or by a waste contractor, the licensee should specify the name, address, and telephone number of the licensed disposal site operator or waste contractor.

Section B, Item 2.c.

"Residual radioactivity," as defined in 10 CFR 20.1003, means radioactivity in 'areas' (structures, materials, soils, etc.) remaining as a result of activities (licensed and unlicensed) under the licensee's control from sources used by the licensee, excluding background radiation. ALARA is defined in 10 CFR 20.1003.

Section B, Item 2.d.

For transfer of radioactive materials licensees should attach a record of receipt from the recipient that contains information regarding what was received (e.g., radioactive materials for disposal or transfer.)

FILE CERTIFICATES 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 CERTIFICATES TO:

LICENSING ASSISTANCE TEAM
DIVISION OF RADIOLOGICAL SAFETY AND SECURITY
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD, SUITE 102
KING OF PRUSSIA, PA 19406-1415
R1DRSSMail.Resource@nrc.gov

*Note: The preferred method to submit NRC Form 314 is email.

IF YOU ARE LOCATED IN:

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND CERTIFICATES TO:

MATERIALS LICENSING BRANCH
DIVISION OF RADIOLOGICAL SAFETY AND SECURITY
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
1600 E. LAMAR BOULEVARD
ARLINGTON, TX 76011-4511
R4licensing@nrc.gov

*Note: The preferred method to submit NRC Form 314 is email.

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND CERTIFICATES TO:

MATERIALS LICENSING SECTION
DIVISION OF RADIOLOGICAL SAFETY AND SECURITY
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, IL 60532-4352
R3-DRSSMAIL.Resource@nrc.gov

*Note: The preferred method to submit NRC Form 314 is email.

BRIAN JONES
ROOF CONSULTING SERVICES
1660 MOUNTAIN ROAD,
GLEN ALLEN, VA 23060

Cust Id: 10591

LEAK TEST CERTIFICATE

DEVICE:

Model: 3216 **Serial No:** 194

SEALED SOURCES:

Serial No.	Measure Date	Nuclide	GBq	mCi
46-1486	07/11/1983	Am-241:Be	1.480	40

LEAK TEST ANALYSIS:

Sample collected on: 05/15/2024

Sample analyzed on: 05/21/2024

Position: 6

Analyzed by: TH

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.69E+001	2.16E+001
Background measurement (cpm)	0	4
Sample measurement (cpm)	0	4
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	1.7E-001	3.0E+000

This certifies that the leak test results are:



Less than 185 Bq (0.005 uCi)



Greater than 185 Bq (0.005 uCi)

BRIAN JONES
ROOF CONSULTING SERVICES
1660 MOUNTAIN ROAD,
GLEN ALLEN, VA 23060

Cust Id: 10591

LEAK TEST CERTIFICATE

DEVICE:

Model: 3216 **Serial No:** 351

SEALED SOURCES:

Serial No.	Measure Date	Nuclide	GBq	mCi
47-14866	06/25/1990	Am-241:Be	1.480	40

LEAK TEST ANALYSIS:

Sample collected on: 05/15/2024

Sample analyzed on: 05/21/2024

Position: 7

Analyzed by: TH

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.69E+001	2.16E+001
Background measurement (cpm)	0	4
Sample measurement (cpm)	0	1
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	1.7E-001	3.0E+000

This certifies that the leak test results are:



Less than 185 Bq (0.005 uCi)



Greater than 185 Bq (0.005 uCi)

BRIAN JONES
ROOF CONSULTING SERVICES
1660 MOUNTAIN ROAD,
GLEN ALLEN, VA 23060

Cust Id: 10591

LEAK TEST CERTIFICATE

DEVICE:

Model: 3216 **Serial No:** 275

SEALED SOURCES:

Serial No.	Measure Date	Nuclide	GBq	mCi
47-9176	04/28/1986	Am-241:Be	1.480	40

LEAK TEST ANALYSIS:

Sample collected on: 05/15/2024

Sample analyzed on: 05/21/2024 **Position:** 8

Analyzed by: TH

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.69E+001	2.16E+001
Background measurement (cpm)	0	4
Sample measurement (cpm)	0	1
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	1.7E-001	3.0E+000

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

December 15, 2023

Roof Consulting Services, Inc.
Attn: Brian Jones
1660 Mountain Road
Glen Allen, VA 23060

Attn: Brian Jones

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: 12-14-2023

Job Number
A19535

Model
3216

Serial Number
532

Regards,

Emily Davis
Service/Repair Department
Troxler Electronics

Equipment Return Authorization & Service Request

*** IMPORTANT ***

THIS DOCUMENT IS REQUIRED TO SERVICE AND RETURN YOUR GAUGE

This document must be completed **EACH** time a nuclear gauge is returned to Troxler for service. Please complete, sign, and submit this form with your gauge. You may also make copies of this form for future use.

SERVICE REQUEST

NUCLEAR GAUGES

Customer Information

Contact: Name: Brian Jones Phone: 804-515-0885
Email: bjones@roofdesign.com

Ship to: Company: _____ Name: _____
Street: _____ Suite: _____
City: _____ State: _____ ZIP: _____

Bill to: Name: Roof Consulting Services PO #: _____
Street: 1660 Mountain Road Suite: _____
City: Glen Allen State: VA ZIP: 23060

Equipment

Manufacturer	Model	Serial Number	Manufacturer	Model	Serial Number
<u>Troxler</u>	<u>3216</u>	<u>532</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____

Service

Service Required, Symptoms, Comments, etc. (attach additional pages if needed)

For Disposal

Calibration

Do you require an ISO 17025 Accredited Calibration?

- ☐ Yes, I **require** an ISO 17025 accredited calibration.
(\$50 additional fee applies)
- ☐ No, I **do not require** an ISO 17025 accredited calibration.

NOTE: All calibrations include "as left" and measurement uncertainty data. Accredited calibrations include "as found" test data and a certified calibration report.

If neither option to the left is selected, your calibration will be ISO 17025 accredited and will incur the extra fee.

License Info

This certifies that the licensee named below is licensed to possess radioactive materials of the type, quantity, and form at the "Ship to" address.

Licensee Name: Roof Consulting Services **License #:** 45-19953-02
License Issued By: US Nuclear Regulatory Commission **Exp. Date:** 03/31/2038
Certified By: Brian Jones **Date:** 12/12/2023
(Radiation Safety Officer signature)

Customer Signature

Brian Jones

Date

12/12/2023

Troxler Service Center Fax Numbers

RTP, NC 919-549-0761 • Downers Grove, IL 630-261-9341 • Rancho Cordova, CA 916-631-0541
Arlington, TX 817-275-8562 • Orlando, FL 407-681-3188



May 28, 2024

This is to acknowledge receipt and transfer of ownership of the nuclear gauges listed below, and the radioactive sources contained therein, from Roof Design to IR Analyzers under Vermont Radioactive Material License #44-28404-02.

Date received: 5/30/24

Model 3216 s/n 531

Model 3216 s/n 194

Model 3216 s/n 275

Sincerely,

Peter Brooks

Owner

MATERIALS LICENSE

In accordance with the Agreement dated 30 September 2019 between the State of Vermont and the U.S. Nuclear Regulatory Commission and 18 V.S.A. Chapter 32, 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 and to deliver or transfer such materials to persons authorized to receive it in accordance with the applicable sections of the Vermont Radiological Health Rule. This license is subject to all applicable rules, regulations, and orders of the Vermont Department of Health now or hereafter in effect and to any conditions specified below.

Licensee 1. Infra-Red Analyzers, Inc. 2. 65 Lyman Drive Williston, VT 05495	In accordance with application dated November 09, 2023,	4. Expiration Date: March 31, 2032
	3. License number: 44-28404-02 is amended in its entirety to read as follows:	5. Docket No.: 030-36004 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	9. Authorized use
A. Americium-241/ Beryllium	A. Sealed Neutron Source (Isotope Product Laboratories, Model Am 1.NO2; QSA Global, Inc., Model AMNV.997)	A. 44 millicuries per source and 308 millicuries total	A. For use in Troxler Electronic Laboratories Models 3216 & 3218 portable gauging devices for measuring physical properties of materials.
B. Americium-241/ Beryllium	B. Sealed Neutron Source (Eckert & Ziegler, Model Isotope Product Laboratories)	B. 50 millicuries per source and 50 millicuries total	B. For use in Instron model MCM2 portable gauging device for measuring physical properties of material.

CONDITIONS

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

44-28404-02

Docket or Reference Number

030-36004

Amendment No. 10

10. Licensed material may be used or stored at the licensee's facilities located at: 600 Blair Park Suite 200, Williston, Vermont. Licensed material may be used at temporary job sites anywhere in the State of Vermont. For temporary job sites where the U.S. Nuclear Regulatory Commission, maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction, authorization for use of radioactive materials at job sites shall be obtained from the U.S. Nuclear Regulatory Commission. If the jurisdiction status of a Federal facility 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 exclusive Federal jurisdiction shall be obtained from the appropriate state regulatory agency. Including areas of exclusive Federal jurisdiction, authorization for use of radioactive materials shall be obtained from the appropriate state regulatory agency.
11. The Radiation Safety Officer for this license is Denise Richard.
12. 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 the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State. In the absence of a registration certificate, sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months, or at such other intervals as specified.
- 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 the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State, prior to the transfer, a sealed source 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.
- D. The leak test shall be capable of detecting the presence of 185 becquerels (0.005 microcuries) of radioactive material on the test sample. If the test reveals the presence of 185 becquerels (0.005 microcuries) or more of removable contamination, a written report shall be filed with the Vermont Department of Health, 108 Cherry Street, Suite 201, Burlington Vermont 05401, and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with the regulations.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
44-28404-02

Amendment No. 10

Docket or Reference Number
030-36004

- E. Analysis of leak test samples 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. The licensee is authorized to collect leak test samples but not perform the analysis.
- F. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.
13. Sealed sources or source rods containing licensed material shall not be opened or sources removed from source holders or detached from source rods, by the licensee, except as specifically authorized.
14. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the Vermont Department of Health, to account for all sealed sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 3 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.
15. 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 or storage, or when not under the direct surveillance of an authorized user.
16. Any cleaning, maintenance, or repair of the gauge(s) that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.

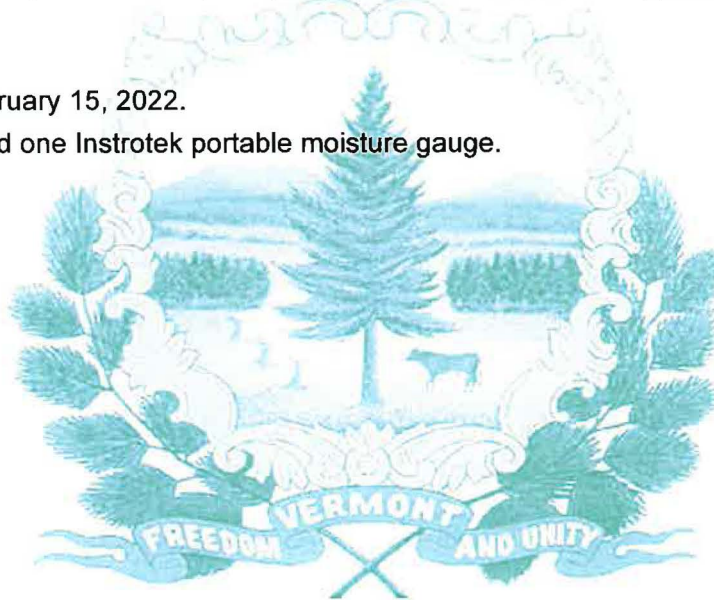
**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
44-28404-02

Amendment No. 10

Docket or Reference Number
030-36004

17. 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. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. The Vermont 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 15, 2022.
- B. Application dated 11/9/2023 add one Instratek portable moisture gauge.



FOR THE VERMONT DEPARTMENT OF HEALTH

Date: December 1, 2023By: 
Dr. Mark A. Levine
Vermont Commissioner of Health



CERTIFICATE OF DISPOSITION OF MATERIALS

Completion of this form is required to complete termination of a Radioactive Material License as outlined in **12VAC5-481-510**. Failure to provide information will result in this request for termination of a specific license not being processed.

Instructions – Complete all items. Retain one copy and submit original to Virginia Department of Health, Radioactive Materials Program, 109 Governor Street, Room 730, Richmond, VA 23219.

CONTACT INFORMATION

Item 1 Name and Mailing Address of Applicant
Roof Consulting Services, Inc
1660 Mountain Road
Glen Allen, VA 23060
804-515-0885

Item 2 Virginia Radioactive Material License Number
087-407-1

Item 3 Contact Person – Name
Brian Jones

Contact Person – Telephone Number (Include area code)
(804) 515-0885

TERMINATION AND DISPOSITION INFORMATION

The following information is provided in accordance with **12 VAC 5-481-510**. (Check all that apply)

☒ **Item 4** All use of radioactive material authorized under the above referenced license has been terminated.

☒ **Item 5** Radioactive contamination has been removed to the levels outlined in **12VAC5-481-1161 B**.

☒ **Item 6** All radioactive material previously procured and/or possessed under the authorization granted by the above referenced license has been disposed of as follows. (Check all that apply)

<input checked="" type="checkbox"/> Transferred to:	Name	Address
	Infra-Red Analyzers Inc	65 Lyman Dr Williston, VT 05495
	Troxler	3008 Cornwallis Road Research Triangle Park, NC 27709

Who is (are) authorized to possess such material under Licensed Number: 44-28404-02

Issued by (Licensing Agency): Vermont Department of Health

☐ Decayed, surveyed and disposed of as non-radioactive waste.

☐ No radioactive material has ever been procured and/or possessed by the licensee under the authorization granted by the above referenced license.

☐ Other (Attach additional pages)

☒ **Item 7** Attached are radiation surveys or equivalent as specified in **12VAC5-481-510 L**. Specify the survey instrument(s) used and certify that each instrument is properly calibrated as required in **12VAC5-481-510 K**.

X

Item 8 Records required to be maintained for the license termination requested are available at the following location(s):

Name: Roof Consulting Services, Inc.

Address: 1660 Mountain Road, Glen Allen, VA 23060

Contact Person Telephone Number: (804) 515 - 0885

Additional remarks (Attach additional pages if necessary.)

CERTIFICATION (To be completed by an individual authorized to make binding commitments on behalf of the applicant.)

Item 10.

The undersigned, on behalf of the licensee, hereby certifies that licensable quantities of radioactive material under the jurisdiction of the Virginia Department of Health are not possessed by the licensee. It is therefore requested that the above referenced radioactive material license be terminated.

SIGNATURE - Applicant or Authorized Individual

Date signed

Print Name and Title of above signatory

Brian Jones

RADIATION Safety Officer

6/3/24