



**State of Vermont**  
**Department of Health**  
 Division of Health Surveillance  
 Public Health Laboratory  
 Physical address: 359 South Park Drive  
 Colchester, VT 05446  
 Mailing Address: P.O. Box 1125  
 Burlington, VT 05402-1125

[phone] 802-338-4724  
 [fax] 802-338-4706  
 [or] 800-660-9997

Agency of Human Services

Br. 2

November 18, 2015

Licensing Assistance Team  
 Division of Nuclear Material Safety  
 U.S. Nuclear Regulatory Commission, Region 1  
 2100 Renaissance Boulevard, Suite 100  
 King Of Prussia, Pa 19406-2713

REC RG 1 11 24 15 AM 07:05

NRC License Number: 44-11382-01

03006501  
 (reference) RLT

Please refer to previous Mail Control No. 585156

This letter is to inform you of our requests to amend the radioactive materials license number 44-11382-01. Enclosed please find NRC Form 313.

Radiation Safety Officer duties have been assigned to Jessica Eisenhauer. She has completed the Dade Moeller Radiation Safety Officer Course offered at Harvard School of Public Health. Proof of completion of the course is enclosed. The Vermont Department of Health Laboratory stopped routine laboratory operations at 195 Colchester Ave., Burlington Vermont, August 14, 2015. We are requesting the removal of the location (at 195 Colchester Avenue, Burlington, Vermont) from the NRC license number 44-11382-01 and a designation of unrestricted use for the site. The Vermont Department of Health has decommissioned the location in Burlington, VT and to that end we have transferred all standards (radioactive material) and accompanying records to our location at 359 South Park Drive, Colchester, Vermont. This letter and survey attachment is in place of NRC Form 314.

VDHL licensed activities consisted of using sealed check calibration standards and small quantities of unsealed radioactive material in work areas that were routinely cleaned and surveyed to detect and remedy any contamination. Enclosed are the results of our radiological survey of the site at 195 Colchester Avenue, Burlington, Vermont which show that any residual contamination is not distinguishable from background levels. We are approaching this action as Decommissioning Group 2 due to the lack of residual contamination. As evidenced by the attached survey data, the 195 Colchester Avenue, Burlington, VT site meets the screening criteria for unrestricted use as no residual radioactivity can be detected onsite.

Please amend Information Requested in Items 3, 7 and 9 of NRC Form 313 as follows:



Item 3: Remove 195 Colchester Avenue, Burlington, Vermont.

Item 7: Remove Cecylia M. Karch as RSO and authorized user, add Jessica Eisenhauer as RSO, and add Rachel P. Smith as an authorized user. Rachel has had one year of hands on experience in working with the radioactive materials at the laboratory.

Item 9: By removal of lines 1-10 which refer to the 195 Colchester Ave. Burlington, Vermont location.

Please do not hesitate to contact us. Please note our new phone numbers: 802.338-4737 (Radiochemistry Section) and 802.338-4746 (George Mills).

Sincerely,

A handwritten signature in black ink that reads "Mary Celotti".

Mary Celotti  
Laboratory Director

**Attachments**

- a. Survey data for 195 Colchester Ave., Burlington Vermont.
- b. Certificate recognizing Jessica Eisenhauer has completed RSO training
- c. Form 313

**NRC FORM 313**  
(10-2015)  
10 CFR 30, 32, 33, 34  
35, 36, 37, 39, and 40

**U.S. NUCLEAR REGULATORY COMMISSION**

**APPROVED BY OMB: NO. 3150-0120**

**EXPIRES: 12/31/2015**



**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 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](mailto:Infocollections.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:**

MATERIALS SAFETY LICENSING BRANCH  
DIVISION OF MATERIAL SAFETY, STATE, TRIBAL AND RULEMAKING PROGRAMS  
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

**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 BOULEVARD, SUITE 100  
KING OF PRUSSIA, PA 19406-2713

**IF YOU ARE LOCATED IN:**

ILLINOIS, INDIANA, IOWA, 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 60532-4352

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 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.**

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- A. NEW LICENSE
- B. AMENDMENT TO LICENSE NUMBER 44-11382-01
- C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

Mary Celotti, Laboratory Director  
Vermont Department of Health Laboratory  
Division of Health Surveillance  
P.O. Box 1125, Burlington, VT 05402-1125

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Wm. George Mills or Jessica Eisenhauer

BUSINESS TELEPHONE NUMBER  
(802) 338-4724

BUSINESS CELLULAR TELEPHONE NUMBER

BUSINESS EMAIL ADDRESS  
[George.Mills@Vermont.gov](mailto:George.Mills@Vermont.gov)

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSE FEES (Fees required only for new applications, with few exceptions\*)  
(See 10 CFR 170 and Section 170.31)

FEE CATEGORY  AMOUNT ENCLOSED \$

13. CERTIFICATION (Must be completed by applicant) 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 REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 37, 39, AND 40, AND THAT ALL INFORMATION CONTAINED 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 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.

CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE

Mary Celotti, Laboratory Director

SIGNATURE

DATE

11-18-15

**FOR NRC USE ONLY**

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	



**HARVARD**

**SCHOOL OF PUBLIC HEALTH**

Executive and Continuing Professional Education

The Harvard School of Public Health certifies that

**Jessica M. Eisenhauer, MS**

has participated in the educational activity entitled

***Radiation Safety Officer Training for Laboratory Professionals***

at the Harvard School of Public Health

**June 7, 2013**

and is awarded 4.0 Continuing Education Units, (CEUs)

Harvard School of Public Health.

*John McDonough, DPH, MPA*

*Director, Executive and Continuing Professional Education*

*Director, Center for Public Health Leadership*

*Harvard School of Public Health*

**VDH Radiochemistry Laboratory 195 Colchester Ave, Burlington, VT 05401**

**Decommissioning Survey Results**

License: 44-11382-01

Last Day of Routine Operations at Burlington, VT Facility: 8/14/2015

**Survey Results:**

Survey Meter background rate: 0.010 mR/h

		<b>Survey meter</b>				
<b>Date</b>	<b>Location description</b>	<b>reading above background mR/h</b>	<b>Gross alpha pCi/wipe *</b>	<b>Gross beta pCi/wipe *</b>	<b>Tritium pCi/wipe *</b>	<b>Gamma Composite **</b>
8/10/2015	Room 115: Lead cabinet handle	0.000	< 0.5	< 1.3	< 4.6	ND
8/10/2015	Room 115: Lead cabinet, first shelf	0.000	< 0.5	< 1.3	< 4.6	ND
8/10/2015	Room 115: Lead cabinet, second shelf	0.000	< 0.5	< 1.3	< 4.6	ND
8/10/2015	Room 115: Lead cabinet, third shelf	0.000	< 0.5	< 1.3	< 4.6	ND
8/10/2015	Room 115: Lead cabinet, fourth shelf	0.000	< 0.5	< 1.3	< 4.6	ND
8/10/2015	Room 115: Lead cabinet, bottom shelf	0.000	< 0.5	< 1.3	< 4.6	ND
8/12/2015	Room 114: Refrigerator handle	0.000	< 0.3	< 1.3	< 4.5	NA
8/12/2015	Room 114: Freezer handle	0.005	< 0.3	< 1.3	< 4.5	NA
8/12/2015	Room 114: Refrigerator shelf	0.005	< 0.3	< 1.3	< 4.5	NA
8/12/2015	Room 115: Dishwasher knob	0.000	< 0.3	< 1.3	< 4.5	NA
8/14/2015	Room 115: Hood, right side bench	0.000	< 0.6	< 1.3	< 4.7	NA
8/14/2015	Room 115: Hood, middle bench	0.000	< 0.6	< 1.3	< 4.7	NA
8/14/2015	Room 115: Hood, left side bench	0.000	< 0.6	< 1.3	< 4.7	NA
8/14/2015	Room 115: Hood, left back surface	0.000	< 0.6	< 1.3	< 4.7	NA
8/14/2015	Room 115: Hood, right back surface	0.000	< 0.6	< 1.3	< 4.7	NA
8/14/2015	Room 115: Hood, left front surface	0.000	< 0.6	< 1.3	< 4.7	NA
8/14/2015	Room 115: Hood, right front surface	0.000	< 0.6	< 1.3	< 4.7	NA
8/14/2015	Room 115: Hood, left side panel	0.000	< 0.6	< 1.3	< 4.7	NA
8/14/2015	Room 115: Hood, right side panel	0.000	< 0.6	< 1.3	< 4.7	NA
8/26/2015	Room 113: Doorknob inside	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 113: Doorknob outside	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 113: VY sample storage shelf	0.005	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 113: Storage cabinet top shelf	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 113: Storage cabinet 2nd shelf	0.005	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 113: Storage cabinet 3rd shelf	0.005	< 0.6	< 1.1	< 4.3	ND

Date	Location description	Survey meter	Gross alpha	Gross beta	Tritium	Gamma
		reading above background mR/h	pCi/wipe *	pCi/wipe *	pCi/wipe *	Composite **
8/26/2015	Room 113: Storage cabinet bottom shelf	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 114: Doorknob inside	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 114: Doorknob outside	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 114: Receiving bench for samples	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 114: Reagent shelf	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 114: Equipment shelf	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 114: Monthly bench VY samples	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 115: Doorknob inside	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 115: Doorknob outside	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 115: VY response storage for water samples	0.005	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 115: Alpha water sample storage	0.005	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 116: Doorknob inside	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 116: Doorknob outside	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 116: Sink basin	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 116: Standards bench for dessicators	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 116: Sample bench - ready for analysis	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 118: Doorknob inside	0.000	< 0.6	< 1.1	< 4.3	ND
8/26/2015	Room 118: Doorknob outside	0.000	< 0.6	< 1.1	< 4.3	ND
9/18/2015	Room 113: Shelf for shipping VY samples	0.000	< 0.5	< 1.1	< 4.3	ND
9/18/2015	Room 113: Shelf for tritiated VY samples	0.001	< 0.5	< 1.1	< 4.3	ND
9/18/2015	Room 115: Inside of hood ductwork, left	0.000	< 0.5	< 1.1	< 4.3	ND
9/18/2015	Room 115: Inside of hood ductwork, right	0.000	< 0.5	< 1.1	< 4.3	ND
9/18/2015	Room 115: Outside of hood ductwork, left	0.001	< 0.5	< 1.1	< 4.3	ND
9/18/2015	Room 115: Outside of hood ductwork, right	0.001	< 0.5	< 1.1	< 4.3	ND
9/18/2015	Room 115: Under RAM cabinet, floor, right	0.002	< 0.5	< 1.1	< 4.3	ND
9/18/2015	Room 115: Under RAM cabinet, floor, left	0.000	< 0.5	< 1.1	< 4.3	ND
9/18/2015	Room 116: Bench under analytical balance	0.000	< 0.5	< 1.1	< 4.3	ND
9/18/2015	Room 116: Bench under gross alpha drying lamp	0.000	< 0.5	< 1.1	< 4.3	ND
9/18/2015	Room 118: Desk for gamma counters	0.000	< 0.5	< 1.1	< 4.3	ND
9/18/2015	Room 118: Desk for alpha/beta counters	0.000	< 0.5	< 1.1	< 4.3	ND

\* Areas wiped were at least 100 cm<sup>2</sup>.

\*\* ND = No radionuclides detected.

NA= Not Applicable

**Instruments used for contamination survey:**

Ludlum Survey Meter Model 14C, Pancake probe 44-9

Canberra Alpha/Beta Counter Model 5XLB

Perkin Elmer Liquid Scintillation Counter Tri-Carb Model 2910TR

Canberra REGe Gamma Detector

Gamma Composite wipes counted in 1 gallon geometry for 12,000 s. Example LLD:

Ba-133	3.3 pCi
Co-60	2.6 pCi
Cs-134	2.8 pCi
Cs-137	2.7 pCi

Note: Hood, lead cabinet, dishwasher and refrigerators were moved to new location.

This is to acknowledge the receipt of your letter application dated

November 18, 2015, and to inform you that the initial processing which includes an administrative review has been performed.

Amendment (44-11382-01) There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

---

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 589443.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.