

(10-2017)  
10 CFR 30, 32,  
33, 34, 35, 36,  
37, 39, and 40



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 Information Services Branch (T-2 F43), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to [Infocollects.Resource@nrc.gov](mailto:Infocollects.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 CURRENT VOLUMES OF THE NUREG-1666 TECHNICAL REPORT SERIES ("CONSOLIDATED GUIDANCE ABOUT MATERIALS LICENSES") FOR DETAILED INSTRUCTIONS FOR COMPLETING THIS FORM: <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/>. SEND TWO COPIES OF THE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

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

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 APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
1600 E. LAMAR BOULEVARD  
ARLINGTON, TX 76011-4511

Br. 2  
(06-35486-01)  
L-35486  
03039107

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 \_\_\_\_\_
- C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

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

New England Materials Testing Lab, LLC.  
Zulfqar Ali Chaudhary  
72 Bissell Street Manchester, CT. 06040

3. ADDRESS WHERE LICENSED MATERIALS WILL BE USED OR POSSESSED

NEW ENGLAND MATERIALS TESTING LAB, LLC  
72 BISSELL STREET MANCHESTER, CT 06040

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Zulfqar Ali Chaudhary

BUSINESS TELEPHONE NUMBER  
860-783-5830

BUSINESS CELLULAR TELEPHONE NUMBER  
860-212-3281

BUSINESS E-MAIL ADDRESS

ali@newenglandmaterialstesting.com

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 AND 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)

\*Amendments/Renewals that increase the scope of the existing license to a new or higher fee category will require a fee.

FEE CATEGORY	New	AMOUNT ENCLOSED \$	3,300.00
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PER THE DEBT COLLECTION IMPROVEMENT ACT OF 1996 (PUBLIC LAW 104-134), YOU ARE REQUIRED TO PROVIDE YOUR TAXPAYER IDENTIFICATION NUMBER. PROVIDE THIS INFORMATION BY COMPLETING NRC FORM 531: <https://www.nrc.gov/reading-rm/doc-collections/forms/nrc531info.html>.

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

Zulfqar Ali Chaudhary, (Principal, Proposed RSO)

SIGNATURE

*Zulfqar Ali*

DATE

04/05/18

FOR NRC USE ONLY

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

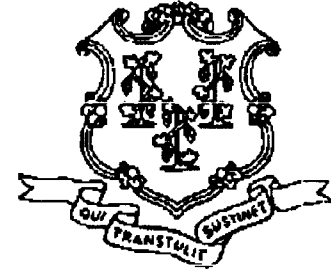
608453  
NUCLEAR MATERIALS

RECEIVED 04 10 10 AM '18



# STATE OF CONNECTICUT

Connecticut Department of  
Energy & Environmental Protection  
Bureau of Air Management  
Radiation Division



## CONFIRMATION OF REGISTRATION

*Issued To:*

***New England Materials Testing Lab, LLC***

*For:*

*Radioactive Material and Industrial X-Ray Devices*

*Rob Klee*

Commissioner

Department of Energy & Environmental Protection

**Site Address:** 72 Bissell St  
Manchester, CT 06040-5391

**Application No.:** 2318960

**Facility ID No.:** 5878

**Issue Date:** 12/5/2017

**Expiration Date:** 12/31/2018



**NEW ENGLAND MATERIALS TESTING LAB, LLC.**  
**NEW ENGLAND REGIONAL OFFICE**

72 Bissell Street Manchester, CT 06040 • Cell: 860-212-3281, Tel: 860-783-5830 • Fax: 860-783-5832

April 5, 2018

US NRC  
Licensing Department

SUBJECT: APPLICATION FOR NEW LICENSE FOR NUCLEAR GAUGES

Dear Sir/Madam,

I, Zulfqar Ali Chaudhary started a new business (**NEW ENGLAND MATERIALS TESTING LAB, LLC**) related to construction materials testing and inspection services. We are located in Manchester, CT. 06040.

I am applying for new license for Nuclear Density Gauges.

US NRC APPLICATION FOR TRANSFER OF GAUGES TO NEW LICENSE

- Items 5 Through 11

➤ Item 5: RADIOACTIVE MATERIAL

- |                  |                       |
|------------------|-----------------------|
| A. Cesium 137    | Sealed Sources        |
| B. Americium 241 | Sealed Neutron Source |

➤ Maximum Amount:

- |  |
|--|
| A. Not exceed to 10 Mill curies per source |
| B. Not to exceed 50 Mill curies per source |

➤ Item 6: PURPOSE FOR WHICH LICENSED MATERIAL WILL BE USED:

- Gauges will be used for the purposes of soil density compaction test.

**NEMT**

[www.newenglandmaterialstesting.com](http://www.newenglandmaterialstesting.com)

Page 1 of 2



**NEW ENGLAND MATERIALS TESTING LAB, LLC.  
NEW ENGLAND REGIONAL OFFICE**

72 Bissell Street Manchester, CT 06040 • Cell: 860-212-3281, Tel: 860-783-5830 • Fax: 860-783-5832

➤ Item 7, Item 8: ZULFQAR ALI CHAUDHARY (Proposed RSO)

- According to NUREG-1556, Rev. 1. I, Zulfqar Ali Chaudhary has ten-year experience to operate and transporting of Nuclear Gauges. I, Zulfqar Ali Chaudhary have all related Radiation Safety Program Certifications and their training experiences and also have Radiation Safety Officer Certification and Hazmat Certification. All certifications are attached with the application.

Item 9: FACILITIES AND EQUIPMENT:

- New England Materials Testing Lab Owned the building, and we have separate room for Nuclear Gauges.
- Facility Address: 72 Bissell Street Manchester, CT. 06040
- We did not buy any equipment yet because we don't have License.

Item 10: Radiation Safety Program:

- I, Zulfqar Ali Chaudhary has ten years' experience to operate, transporting and storage of Portable Nuclear Gauge. I read the rules and regulations according to Radiation Safety Program Instruments in NUREG-1556, Rev. 1.
- Operating and emergency procedures will be followed.
- New England Materials Testing Lab also registered from **Connecticut Department of Energy & Environment Protection Bureau of Air Management Radiation Division** for ***Radioactive Material and Industrial X-Ray Devices***

Item 11: WASTE MANAGEMENT:

- I, Zulfqar Ali Chaudhary would be the responsible for whole operation and I am certified as Radiation Safety Officer.
- Proposed company RSO Zulfqar Ali Chaudhary is properly trained and have 10-years gauges handling experience and hold the required qualifications and certifications.

Best Regards,

New England Materials Testing Lab, LLC.

Zulfqar Ali Chaudhary  
Principal, Proposed RSO

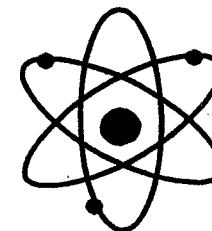
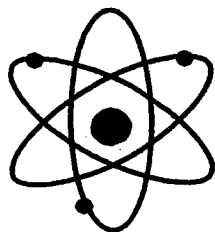
NEMT

[www.newenglandmaterialstesting.com](http://www.newenglandmaterialstesting.com)

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# ***Q/C RESOURCE***

## ***Training Course Certification***



*This is to certify that*

**Zulfqar Ali Chaudhary**

*has successfully completed the RSO and Operator's course as required by the U.S. Nuclear Regulatory Commission and the Agreement States, in the Fundamentals of Safety and Gauge operation, for the use of Nuclear Moisture / Density equipment. This course meets the requirements in NUREG 1556 Vol 1, Appendix D. It covered:*

*Atomic Physics*

*Radiation Safety*

*Dose/Shielding Calculations*

*Accidents/Storage*

*49 CFR Transportation*

*Risk*

*ALARA*

*Measurement Theory*

*Operation*

*Field Applications*

*Calibration*

*Maintenance*

**April 29, 2008**

*Date Of Training*

**11198**

*Certificate Number*

A handwritten signature in black ink that reads "Philip C. Palilla".

*Instructor - Philip C. Palilla  
Manufacturer's Rep*

Certificate ID: C098C4B941D23249

# *Radiation Safety Officer Certification*

This certifies that

**zulfqar Ali chaudhary**

has successfully completed the official Troxler Radiation Safety Officer Course. This person was taught and demonstrated knowledge of radiation safety and the regulatory requirements associated with the role of Radiation Safety Officer for a portable nuclear gauge license on this date:

**Apr 04, 2018**



Troxler Electronic Laboratories, Inc.  
P.O.BOX 12057 - 3008 E. Cornwallis Road - Research Triangle Park, NC 27709  
Phone:(919) 549-8661 - Fax: (919) 549-0761 - [www.troxlerlabs.com](http://www.troxlerlabs.com)

*Hazmat Certification*  
*as required by U.S DOT and IATA*

This certifies that

**zulfqar Ali chaudhary**

has been trained and tested in accordance with the U.S. Department of Transportation and International Air Transport Association (IATA) hazardous material requirements for general awareness/familiarization, function-specific, safety and security awareness training as related to the transportation of nuclear gauges. A description of the training course materials is available from Troxler Electronic Laboratories, Inc.

Date Apr 04, 2018 Expires Apr 03, 2021

**EMPLOYER CERTIFICATION**

I certify that the hazmat employee identified on this certificate has been trained and tested as required by U.S. DOT Hazardous Material Regulations (49 CFR 172 Subpart H).

Signature Zulfqar Ali Title Company, RSO Date April 04, 2018



Troxler Electronic Laboratories, Inc.  
P.O. BOX 12057 - 3008 E. Cornwallis Road - Research Triangle Park, NC 27709  
Phone: (919) 549-8661 - Fax: (919) 549-0761 - [www.troxlerlabs.com](http://www.troxlerlabs.com)

# *Nuclear Gauge Operator Recertification*

This certifies that

Zulfqar Ali Chaudhary

has successfully completed the *Nuclear Safety for Gauge Operators Refresher Course* online course on the date shown below.

November 22, 2015



Troxler Electronic Laboratories, Inc.  
P.O. Box 12057 - 3008 E. Cornwallis Road - Research Triangle Park, NC 27709  
Phone: (919) 549-8661 - Fax: (919) 549-0761 - [www.troxlerlabs.com](http://www.troxlerlabs.com)



# U.S. D.O.T. HAZMAT CERTIFICATION

## Refresher Training for Portable Nuclear Gauges

Certificate of Completion to:  
**Zulfqar Chaudhary**

Training must be renewed within three years from today's date:

April 26, 2017

This course satisfies the training requirements of 49 CFR 172, Subpart H, including:

- General Awareness/Familiarization
- Function Specific Training
- Safety Training
- Security Awareness
- Driver Training

The organization RSO/Official must certify that the employee has been properly trained and tested per the requirements of 49 CFR 172, Subpart H. The acknowledgement and signature of the RSO/Official makes the training and certificate relevant and valid.

Tri Sate materials Testing Lab, LLC  
Company Name

Habib A. Chaudhary, P.G.  
Company RSO/Official (print)

  
Signature of RSO/Official

American Portable Nuclear Gauge Association  
P.O. Box 423, Emmitsburg, MD 21727 • www.apnga.com

Key9INpgfC

  
George E. Marshall - Director  
240-888-6426

# Certificate of Completion

**Zulfqar Chaudhary**

has successfully completed the following course

**OSHA 10 Hour Construction Program [2009 Rev 1]**

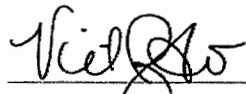
**This course is approved for 10 continuing education credit hours.**

Not Applicable

Course Approval

December 19 2010

Course Completion Date

  
Victoria Zambito, VP of Product Management

RedVector.com  
AIA Registered Provider #J315  
FL DBPR Approved Provider #0001771  
FBPE Approved Provider #33

**RedVector**  
Leaders in Online Education & Training

Two Urban Centre • 4890 West Kennedy Boulevard Suite 300 • Tampa, FL 33609

# State of Connecticut

Department of Administrative Services  
Supplier Diversity Program



*This Certifies*

**New England Materials Testing Lab, LLC.**

**72 Bissell Street Manchester CT 06040**

*As a*

*Small/Minority Business Enterprise  
March 09, 2018 through March 09, 2020*

**Owner(s):** Zulfiqar Ali Chaudhary

**Contact:** Zulfiqar Ali Chaudhary

**E-Mail:** [ali@newenglandmaterialstesting.com](mailto:ali@newenglandmaterialstesting.com)

**Telephone:** 860-212-3281 Ext: **FAX:** 860-783-5832

**Web Address:** [www.newenglandmaterialstesting.com](http://www.newenglandmaterialstesting.com)

**\*\*Affiliate Companies:**

*Meg Yetishefsky*

Supplier Diversity Director

*M. Murray*

Supplier Diversity Specialist



**ACKNOWLEDGEMENT - RECEIPT OF CORRESPONDENCE**

<b>Name and Address of Applicant and/or Licensee</b>  New England Materials Testing Lab, LLC ATTN: Zulfgar Ali Chaudhary, Principal, Proposed RSO 72 Bissell Street Manchester, CT 06040	<b>Date</b> April 12, 2018
	<b>License Number(s)</b> New License Application
	<b>Mail Control Number(s)</b> 608453
	<b>Licensing and/or Technical Reviewer or Branch</b> Commercial, Industrial, R&D, & Academic Branch
	(Empty field)

This is to acknowledge receipt of your:  Letter and/or  Application Dated: 04/05/2018

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**