

NRC FORM 313

(03-2013)

10 CFR 30, 32, 33,
34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR MATERIALS
LICENSE

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 05/31/2015

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-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to 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 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:

OFFICE OF FEDERAL & STATE MATERIALS AND
ENVIRONMENTAL MANAGEMENT PROGRAMS
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS
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
2150 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

☒

C. RENEWAL OF LICENSE NUMBER

25-29408-01

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

Tetra Tech, Inc.
2525 Palmer Street, Suite 2
Missoula, Montana 59808

☐ Immediate Release
☐ Normal Release
☐ A.3 Sensitive Security Related
☐ A.7 Sensitive Internal
☐ Other: ATZ Date: 1-6-2014

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

A. 600 South 25th Street, Billings, Montana
B. 2525 Palmer Street, Missoula, Montana
C. 605 Warehouse Road, Casper, Wyoming
D. Temporary job sites anywhere in the United States where the
US NRC maintains jurisdiction for regulating the use of licensed
material, including areas of Federal jurisdiction within Agr states.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Michael J. Connolly

BUSINESS TELEPHONE NUMBER

(406) 543-3045

BUSINESS CELLULAR TELEPHONE NUMBER

(406) 214-4426

BUSINESS EMAIL ADDRESS

michael.connolly@tetrattech.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.

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

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

10. RADIATION SAFETY PROGRAM.

9. FACILITIES AND EQUIPMENT.

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, 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

Michael J. Connolly
Radiation Safety Officer

SIGNATURE

Michael J. Connolly

DATE

12-18-13

FOR NRC USE ONLY

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

5. Radioactive Material

Byproduct, source, and/or special nuclear material	Chemical and/or physical form	Maximum amount that licensee may possess at any one time under this license
A. Cesium-137	A. Sealed sources (Troxler drawing No. A-102112, CPN Model CPN-131)	A. 8 millicuries per source and 270 millicuries total.
B. Americium-241	B. Sealed neutron sources (Troxler drawing No. A-102451, A 102113, A-100608, A-100337, CPN Model CPN-131, AEA Technology QSA, Inc., Model No. AMNV997; Isotope Product Laboratories Model No. Am1. No.2)	B. 100 millicuries per source and 1250 millicuries total.
C. Cesium-137	C. Sealed sources (Troxler drawing No. A-102112)	C. 9 millicuries per source and 9 millicuries total.
D. Cadmium-109	D. Sealed sources (Amersham Corp., Model CUCP. 1, CUC. D1, CUC. P1; Isotope Product Laboratories Model XFB-3)	D. 40 millicuries per source and 80 millicuries total.

6. Purpose for which licensed material will be used:

- A. and B. To be used in Troxler Electronic Laboratories, Inc. Model No. 3400 Series, 4300 Series, 3401, 3411 B and #450 gauges to measure moisture/density of construction materials and Campbell Pacific Nuclear Corporation Model MC Series or 500 Series gauges for moisture/density determinations.
- B. To be used on Troxler Electronics Laboratories, Inc. Model 3241 and 4300 Series gauge for asphalt content measurements
- C. To be used in Troxler Electronic Laboratories, Inc. Model 4640 Series Thin Layer Density gauge for measurement of density of asphalt overlays.
- D. To be used in NITON XL MODEL 309 and XLP Series x-ray fluorescence analyzers to check lead in paint or soil analysis and Columbia Scientific Industries Corporation (CSIC) Models HEPS, LEPS, DOPS, SAPS, SSPS, and SLPS Probes (Formerly 820, 840, 880) for x-ray fluorescence analysis.

7. Individual(s) Responsible for Radiation Safety Program and Their Training Experience.

The Radiation Safety Officer (RSO) for this license is Michael J. Connolly. The RSO has successfully completed one of the training courses described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience- Radiation Safety Officer" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.

8. Training For Individuals Working In Or Frequenting Restricted Areas.

Before using licensed material, authorized users will have successfully completed one of the training courses describes in Criteria in the section entitled "Training for Individuals Working In or Frequenting Restricted Areas" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.

9. Facilities and Equipment

Answer Not Required by Applicant.

10. Radiation Safety Program- Instruments

We will have access to and use a radiation survey meter that meets the Criteria in the Section entitled "Radiation Safety Program – Instruments" in NUREG-1556, Vol. 1 Rev. 1, dated November 2001, in the event of an incident.

10. Radiation Safety Program- Material Receipt and Accountability

Physical Inventories will be conducted at intervals not to exceed 6 months, to account for all sealed sources and devices received and possessed under the license.

10. Radiation Safety Program- Occupational Dosimetry

Either we will maintain, for inspection by NRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of 10 percent of the allowable limits in 10 CFR Part 20 or we will provide dosimetry processed and evaluated by an NVLAP-approved processor that is exchanged at a frequency recommended by the processor.

10. Radiation Safety Program- Operating and Emergency Procedures

We will implement and maintain the operating and emergency procedures in Appendix H of NUREG-1556, Vol. 1 Rev. 1 dated November 2001 and provide copies to all gauge users and at each job site.

10. Radiation Safety Program- Leak Test

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.

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 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.

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 © (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, 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.

G. 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.

10. Radiation Safety Program- Maintenance

We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's recommendation and instructions.

10. Radiation Safety Program- Transportation

No answer required with this application.

11. Waste Disposal- Gauge Disposal and Transfer

No answer required with this application.

Certificate of Completion

This certifies that

MICHAEL J CONNOLLY

has successfully completed the

Troxler Radiation Safety Officer Course

conducted by the training department of

Troxler Electronic Laboratories, Inc.

GREG FARNEN

02/06/02

William F. Troxler, Jr.

Instructor

Date

President



AGRA Earth & Environmental, Inc.

THIS IS TO CERTIFY THAT

MIKE CONNOLLY

HAS SUCCESSFULLY COMPLETED THE AGRA EARTH & ENVIRONMENTAL, INC.

8 HOUR TRAINING COURSE FOR GAUGE USERS

TOPICS COVERED IN THIS COURSE:

Fundamentals of Radiation Safety

Atomic Structure

Types and Sources of Radiation

Units of Radiation Measurement

Radioactive Isotopes

Regulatory Requirements

Licensing

Audits

Recordkeeping

Transportation

Shipping

Gauge Theory and Operation

ALARA

Time, distance, shielding

Risks Associated with Occupational Exposure

NRC Regulatory Guides

Biological Effects of Radiation

Risk Avoidance

Operating & Emergency Procedures

Storage and Maintenance

Surveillance and Control

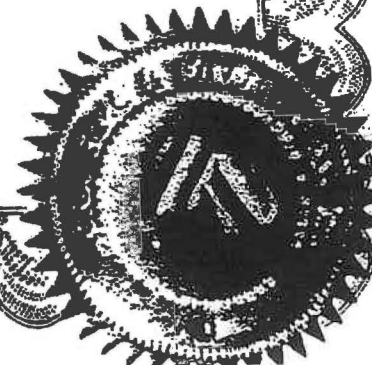
Personnel Monitoring and Survey Instruments

Utilization Logs

Leak Tests and Inventories


INSTRUCTOR

11-21-96
DATE



Tetra Tech

2525 Palmer St JULE L

Missoula, MT 59808

\$0.46 0
US POSTAGE
FIRST-CLASS
062S0008512583
59808



B04094.05

B04093.01
062

DEC 30 2013

Nuclear Materials Licensing Branch
US Nuclear Regulatory Commission Region IV
1600 E Lamar Boulevard
Arlington, TX 76011-4511

BETWEEN:

Accounts Receivable/Payable
and
Regional Licensing Branches

[FOR ARPB USE]
INFORMATION FROM WBL

Program Code: 03121
Status Code: Pending Renewal
Fee Category: 3P
Exp. Date:
Fee Comments:
Decom Fin Assur Req:

License Fee Worksheet - License Fee Transmittal

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: Tetra Tech, Inc.
Received Date: 12/30/2013
Docket Number: 3038372
Mail Control Number: 582846
License Number: 25-29408-01
Action Type: Renewal

2. FEE ATTACHED

Amount: _____

Check No.: _____

3. COMMENTS

Signed: _____

Date: _____

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / /)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:

Amendment: _____

Renewal: _____

License: _____

3. OTHER _____

Signed: _____

Date: _____



DATE

01/15/2014

NAME AND ADDRESS OF APPLICANT AND/OR LICENSEE

Tetra Tech, Inc.
ATTN: Michael J. Connolly
Radiation Safety Officer
2525 Palmer Street
Missoula, MT 59808

LICENSE NUMBER

25-29408-01

MAIL CONTROL NUMBER

582846

LICENSING AND/OR TECHNICAL REVIEWER

cmurnahan *cm*

This is to acknowledge the receipt of your:

☐ LETTER and/or ☒ APPLICATION DATED: 12/18/2013

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 fill out NRC Form 531, located at the following link:

<http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>

Send the completed NRC Form 531, by facsimile, to the following number: (301) 415-5387

A copy of your action has been emailed to our License Fee and Accounts Receivable Branch, in our Headquarters office in Rockville, MD. You will be contacted separately if there is a fee issue involved.

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

*Submitted to
licensee 1-15-14*