



**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 e-mail to 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 CURRENT VOLUMES OF THE NUREG-1556 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

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

Bi. 2
(47-35422-01)
L35422
03039045
03121

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.

<p>1. THIS IS AN APPLICATION FOR (Check appropriate item)</p> <p><input checked="" type="checkbox"/> A. NEW LICENSE</p> <p><input type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER _____</p> <p><input type="checkbox"/> C. RENEWAL OF LICENSE NUMBER _____</p>	<p>2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)</p> <p>RK Construction Company 47 Omers Dr Frametown, WV 26623</p>
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<p>3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED</p> <p>RK Construction Company 47 Omers Dr Frametown, WV 26623</p>	<p>4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION</p> <p>Nathan V Mowery</p> <table border="1"> <tr> <td>BUSINESS TELEPHONE NUMBER</td> <td>BUSINESS CELLULAR TELEPHONE NUMBER</td> </tr> <tr> <td>(304) 364-5454</td> <td>(304) 644-3808</td> </tr> <tr> <td colspan="2">BUSINESS EMAIL ADDRESS</td> </tr> <tr> <td colspan="2">nathan.mowery@rkconstructioncompany.com</td> </tr> </table>	BUSINESS TELEPHONE NUMBER	BUSINESS CELLULAR TELEPHONE NUMBER	(304) 364-5454	(304) 644-3808	BUSINESS EMAIL ADDRESS		nathan.mowery@rkconstructioncompany.com	
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nathan.mowery@rkconstructioncompany.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.

<p>5. RADIOACTIVE MATERIAL</p> <p>a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.</p>	<p>6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.</p>
<p>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.</p>	<p>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.</p>
<p>10. RADIATION SAFETY PROGRAM.</p>	<p>9. FACILITIES AND EQUIPMENT.</p>
<p>11. WASTE MANAGEMENT.</p>	<p>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.</p>

FEE CATEGORY	1D	AMOUNT ENCLOSED \$	2,500.00
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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.

<p>CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE</p> <p>Nathan Mowery - Radiation Safety Officer</p>	<p>SIGNATURE</p>	<p>DATE</p> <p>4-12-17</p>
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FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	
					594567 NRC/IRGNI MATERIALS-002

5. Radioactive Materials Requested:

a. Element and Mass Number:

Cesium 137
Americium 241

b. Physical/Chemical Form

Cesium 137 Sealed Source (AEA Technology Model CDCW .556; Isotope Products Laboratories Model HEG-137; Troxler Electronic Laboratories Drawing No. A-102112; CPN International Model CPN-131)

Americium 241 Sealed Source (AEA Technology Model AMNV .997; Isotope Products Laboratories Models Am1.NO2, 3021 and 3027; Troxler Electronic Laboratories Drawing No. A102451; CPN International Model CPN-131)

c. Maximum activity requested:

No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State.

6. Purpose(s) for which radioactive material will be used:

In Troxler Electronic Laboratories Models 3440, 3411B, and CPN International Model MC3 portable gauging devices for measuring physical properties of materials.

7. Individual responsible for Radiation Safety Program and Their Experience and Training:

Radiation Safety Officer:

Nathan V Mowery
47 Omers Dr
Frametown, WV 26623
1(304)644-3808
Nathan.mowery@rkconstructioncompany.com

Training and Experience:

The proposed 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 "Consolidated Guidance about Materials Licenses; Program-Specific Guidance about Portable Gauge Licenses,' dated November 2001 and has 8 years of experience performing the duties of an RSO with GA Covey Engineering PO Box 185, Sutton, WV 26601 (1(304)750-2203

8. Training For Individuals Working In or Frequenting Restricted Areas:

Before using licensed materials, authorized users will have successfully completed one of the training courses described in Criteria in the section entitled "Training for Individuals Working In or Frequenting Restricted Areas' in SUREG-1556, Vol. 1 Rev. 1, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Portable Gauge Licenses," dated November 2001.

10. Radiation Protection Program

10.2. We will either possess and use, or 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, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Portable Gauge Licenses,' dated November 2001, in the event of an incident.

10.3. 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.

10.4. Either we will maintain, for inspection by NRC, documentation demonstrating that unmonitored individuals are not likely to receive, in one year, 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 frequency recommended by the processor.

10.6. We will implement and maintain the operation and emergency procedures in Appendix H of 'Radiation Safety Program- Instruments' in NUREG-1556, Vol. 1 Rev. 1, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Portable Gauge Licenses,' dated November 2001, and provide copies of these procedures to all gauge users and at each job site.

10.7. Leak tests will be performed at intervals approved by NRC or an Agreement State and specified in the Sealed Source and Device Registration Sheet. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services to other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier's instructions.

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

• No: 20701448

Certificate of Completion

This is to certify that Nathan Mowery has completed an equivalent gauge manufactures training course on Radiation Safety and use of Portable Nuclear Density / Moisture Gauges, with training per 49 CFR 172, sub H, & Security awareness during transit. Suitable for gauge operators and Radiation Safety Officer.

Held February 9th , 2011 in the city of Amanda, State of OH

By:

Cline's Technical Services, Inc.

10883 Cincinnati Zanesville Road - Amanda, Ohio- 43102

Phone: 740-969-2720

Fax: 740-969-2122

Willie Cline
Radiation Safety Officer Willie Cline

Willie Cline
Instructor Willie Cline

See back side for course content.



Contents of Course

Principles and Practices of Radiation Protection

Theory, terminology, and practical explanations of Radioactive Materials, License requirements, Storage, Transportation [to include Initial Training required by 49 CFR 172, Sub.H, & Security Awareness] and Emergency Procedures to be used with portable nuclear devices typical of "soil, agriculture, roof, asphalt and other construction gauges" using small (not more than 300 millicurie) sources in sealed capsules.

Radioactive Measurement Standardization and Monitoring Techniques and Instruments

Demonstration of radiation levels typical with use of small, portable devices using conventional survey meter. Concentration on Inverse Squares Law factors effects of shielding, time, and distance in use of materials.

Mathematics and Calculations basic to use and measurement of Radioactivity

Determination of typical radiation levels in mrems within working distance of a typical portable "construction device", calculation of portable weekly radiation dose under a heavy work condition, and relation of that dose to the NRC maximum annual allowances for occupational use of radioactivity.

Establishment of relationship of this occupational dose to that obtained from normal life exposures of external radiation at sea level and high elevations, jet plain travel, normal health XRAYs, etc.

Biological effects of Radiation

General discussion of effects of low level radiation on the body with emphasis on the relationship of routine lifestyle exposure (environmental, routine medical, smoking, etc.) to the added exposure from normal use of portable devices using small millicurie sources.



ACKNOWLEDGEMENT - RECEIPT OF CORRESPONDENCE

Name and Address of Applicant and/or Licensee RK Construction Company ATTN: Nathan V. Mowery, Radiation Safety Officer 48 Omers Dr. Frametown, WV 26623	Date April 24, 2017
	License Number(s) New License Application
	Mail Control Number(s) 594567
	Licensing and/or Technical Reviewer or Branch Commercial, Industrial, R&D, & Academic Branch (Branch 2)

This is to acknowledge receipt of your: Letter and/or Application Dated: 04/12/2017

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:
 [Empty box for listing omissions]

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
