


NRC FORM 313 (1-2012) 10 CFR 30, 32, 33, 34, 36, 38, 39, and 40 U.S. NUCLEAR REGULATORY COMMISSION APPLICATION FOR MATERIALS LICENSE	APPROVED BY OMB: NO. 3160-0120 EXPIRES: (03/31/2012) 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.	
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 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19406-1415	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 1800 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) <input type="checkbox"/> A. NEW LICENSE <input type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <input checked="" type="checkbox"/> C. RENEWAL OF LICENSE NUMBER <u>24-20089-01</u>	2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code) Engineering Surveys & Services 1113 Fay St Columbia, MO 65201
3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED 1113 Fay St.; Columbia, MO 65201 802 El Dorado Dr.; Jefferson City, MO 65101 1775 W. Main St.; Sedalia, MO 65301 Used at temporary job sites anywhere in the U.S. where NRC maintains jurisdictions.	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION Gregory Nehring, Member LLC/RSO TELEPHONE NUMBER (660) 826-8618
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 (See 10 CFR 179 and Section 170.31) FEE CATEGORY <u>3.P</u> AMOUNT ENCLOSED \$ <u>1,500.00</u>
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, 38, 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 Gregory Nehring, Member LLC/RSO	SIGNATURE  DATE <u>4/27/12</u>
FOR NRC USE ONLY	
TYPE OF FEE	FEE LOG
FEE CATEGORY	AMOUNT RECEIVED
APPROVED BY	CHECK NUMBER
DATE	COMMENTS

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Item 5.1: Radioactive Material**A. Cesium 137**

1. Sealed neutron sources in compatible gauges as specified in Sealed Source and Device Registration Sheet. 0.3 GBq per Troxler gauge. 370 MBq per Instroteck gauge.
2. Not to exceed maximum activity per source as specified in Sealed Source and Device Registration Sheet. Total possession to not exceed 2.2 GBq.

B. Americium - 241

1. Sealed neutron sources in compatible gauges as specified in Sealed Source and Device Registration Sheet. 1.48 GBq per gauge.
2. Not to exceed maximum activity per source as specified in Sealed Source and Device Registration Sheet. Total possession to not exceed 10.36 GBq.

C. List of Gauge Make, Model, Sources, & Serial Numbers

Manufacturer	Model	Gauge Serial #	Source	Source Serial	Source	Source Serial
Troxler	3411	15499	Am241:Be	47-10891	Cs137	50-4460
Troxler	3411	10765	Am241:Be	46-2189	Cs137	40-8031
Instrotek	3500	805	Am241:Be	NJ6076	Cs137	5166CN
Troxler	3411	7929	Am241:Be	47-4249	Cs137	40-5158
Troxler	3411	8995	Am241:Be	47-5463	Cs137	40-6300
Troxler	3440	15848	Am241:Be	47-11346	Cs137	50-4892

Item 5.2: Financial Assurance and Record Keeping For Decommissioning

- A. Response need not be submitted with application.

Item 6: Proposed Use of Materials

- A. To measure physical properties of materials. At no time will an unsealed source be inserted into a hole more than 3 feet below the surface.

Item 7: Individual(s) Responsible For Radiation Safety Program and Their Training Experience

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- A. Radiation Safety Officer: Gregory Nehring
- B. Before obtaining licensed materials, the proposed RSO will have 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 Offices" in NUREG - 1556, Vol. 1, Revision 1, dated November 2001.
- C. Before being named as the RSO, future RSOs will have successfully completed one of the training courses described in Criteria in the section entitled "Individual(s) Responsible [or Radiation Safety Program and Their Training and Experience-Radiation Safety Officer" in NUREG - 1556, Vol. 1, Revision 1, dated November 2001.

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

- A. Before using licensed materials, authorized users will have successfully completed one of the training courses described in Criteria in the section entitled "Training For Individual(s) Working In or Frequenting Restricted Areas" in NUREG - 1556, Vol. 1, Revision 1, dated November 2001.

Item 9: Facilities and Equipment

- A. Response need not be submitted with application

Item 10.1: Radiation Safety Program - Audit Program

- A. Response need not be submitted with application

Item 10.2: Radiation Safety Program - Termination of Activities

- A. Response need not be submitted with application

Item 10.3: Radiation Safety Program - Survey Instruments

- A. 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, Revision 1, dated November 2001, in the event of an incident.

Item 10.4: Radiation Safety Program - Material Receipt and Accountability

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

Item 10.5: Radiation Safety Program - Occupational Dosimetry

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

Item 10.6: Radiation Safety Program - Public Dose

- A. Response need not be submitted with application.

Item 10.7: Radiation Safety Program - Operating and Emergency Procedures

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

Item 10.8: Radiation Safety Program - Leak Test

- A. Leak tests will be performed at intervals approved by the 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 for 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.

Item 10.9: Radiation Safety Program - Maintenance**A. Routine Cleaning and Lubrication**

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

B. Non-Routine Maintenance

- 1. We will send the gauge to the manufacturer or other person authorized by NRC or an Agreement State to perform non-routine maintenance or repair operations that require the removal of the source or source rod from the gauge.

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Item 10.10: Radiation Safety Program Transportation

A. Response need not be submitted with application

Item 11: Waste Management - Gauge Disposal and Transfer

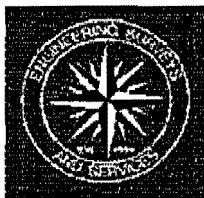
A. Response need not be submitted with application

Delegation of Authority:

Memo To: Whom it may concern
From: Member/Office Manager Engineering Surveys & Services LLC.
Subject: Delegation of Authority

I, Gregory Nehring, serving as the Radiation Safety Officer and I am responsible for ensuring the safe use of radiation. I am responsible for managing the Radiation Protection Program; identifying radiation protection problems; initiating, recommending or providing corrective actions; verifying implementation of corrective actions; stopping unsafe activities; and ensuring compliance with regulations. I am hereby delegated the authority necessary to meet those responsibilities, including prohibiting the use of byproduct material by employees who do not meet the necessary requirements and shutting down operations where justified to maintain radiation safety. As management, I will take corrective measures should staff not cooperate and does not address radiation safety issues. In addition, I am free to raise issues with the Nuclear Regulatory Commission at any time. It is estimated that I will spend 4 to 8 hours per week conducting radiation protection activities.

 4/27/2012
Gregory Nehring, Member Engineering Surveys & Services LLC.

***Engineering Surveys and Services***

Consulting Engineers, Geologists, and Land Surveyors
Analytical and Material Laboratories

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FACSIMILE TRANSMITTAL

TO:	Jennifer Bishop	FROM:	Greg Nehring
FAX:	630-515-1078	DATE:	May 7, 2012
PHONE:	630-829-9607	PAGES:	6 + Cover
RE:	577183	CC:	

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