

Dalzell-Bishop, Jennifer

From: Ray Bailey [Rbailey@abnacorp.com]
Sent: Tuesday, November 13, 2012 12:49 PM
To: Dalzell-Bishop, Jennifer
Cc: William Goldkamp
Subject: RE: Transmittal of Conversation Record (License No. 24-32415-01 renewal; Control NO. 577717)
Attachments: 20121113 ABNA NRC License No 24-32415-01 revised renewal application Control No 577717.pdf

Good afternoon Ms. Bishop.

Attached you will find a copy of our revised License Renewal Application. A copy of our revised renewal application was also faxed to (630)515-1078. Please feel free to call me if you have any questions or need any additional information.

Best regards,

Raymond Bailey, Ph.D., P.E., R.G.
Radiation Safety Officer
ABNA Engineering, Inc.
4140 Lindell Blvd.
Saint Louis, MO 63108
Phone: (314) 454-0222 ext. 1120
Nextel: (314) 220-2378

From: Dalzell-Bishop, Jennifer [<mailto:Jennifer.Dalzell-Bishop@nrc.gov>]
Sent: Thursday, November 08, 2012 7:51 AM
To: Ray Bailey
Subject: Transmittal of Conversation Record

Dear Mr. Bailey,

Attached you will find a copy of the Conversation Record from our discussion on November 8, 2012 regarding the application to renew your NRC license that you submitted. Please fax your response by November 15, 2012 to 630-515-1078.

Please feel free to contact me if you have any questions.

Jennifer Bishop
Health Physicist

U.S. Nuclear Regulatory Commission, Region III
Division of Nuclear Materials Safety
Materials Licensing Branch
Jennifer.Dalzell-Bishop@nrc.gov
630-829-9607 (Office)

NRC FORM 313 (3-2009) 10 CFR 30, 32, 33, 34, 35, 36, 39, and 40	U.S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150-0120	EXPIRES: 3/31/2012
<h2 style="margin: 0;">APPLICATION FOR MATERIALS LICENSE</h2>		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 Records and FOIA/Privacy 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 20556-0001 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 60532-4362 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 812 E. LAMAR BOULEVARD, SUITE 400 ARLINGTON, TX 76011-4125
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>24-32415-01</u>	2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code) ABNA Engineering, Inc. 4140 Lindell Blvd. St. Louis, MO 63108
3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED 4140 Lindell Blvd. St. Louis, MO 63108	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION Raymond E. Bailey TELEPHONE NUMBER <p style="text-align: center; font-weight: bold;">(314) 454-0222</p>

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 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 Raymond E. Bailey, Radiation Safety Officer	SIGNATURE 	DATE 06/13/2012
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FOR NRC USE ONLY					
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

5. RADIOACTIVE MATERIAL

A. Element and Mass Number

a.1 Cesium-137

a.2 Americium-241

a.3 Radium-226

B. Chemical and/or physical form (for all sources listed in a.)

Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of the license.

C. Maximum amount which will be possessed at any one time

c.1 (Cesium-137) No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an agreement State. Total possession not to exceed a total of 80 millicuries.

c.2 (Americium-241) No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State. Total possession not to exceed a total of 400 millicuries.

c.3 (Radium-226) No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an agreement State. Total possession not to exceed a total of 18 millicuries.

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

A. Cesium-137 and Americium-241. To be used in Campbell-Pacific Nuclear Corporation Model MC Series portable gauges for measuring physical properties of materials.

B. Radium-226. To be used in Seaman Nuclear Corporation, Portable Moisture density Gauges Models C-200 and C-300.

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

A. The Radiation Safety Officer for this License is Raymond E. Bailey. Before obtaining licensed materials, the proposed RSO 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.

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 Individuals Working In or Frequenting Restricted Areas” in NUREG-1556, Vol. 1, Rev 1, dated November 2001.
9. FACILITIES AND EQUIPMENT.
 - A. Licensed material may be used or stored at the licensee’s facilities located at 4140 Lindell Blvd, St. Louis, Missouri and may be used at temporary job sites anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
10. RADIATION SAFETY PROGRAM.
 - A. See item numbers 12-22 of the attached Materials License Supplementary Sheet.
 - B. The licensee 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, dated November 2001.
 - C. The licensee 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 or will provide dosimetry processed and evaluated by an NVLAP-approved processor that is exchanged at a frequency recommended by the processor.
 - D. (MODIFY Item No. 16) 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.
 - E. Operating and emergency procedures will be developed, implemented, and maintained, and will meet the criteria in the section entitled ‘Radiation Safety Program – Operating and Emergency Procedures’ in NUREG-1556, Vol. 1, Rev. 1, ‘Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Portable Gauge Licenses,’ dated November 2001.

- F. (MODIFY Item No. 13 A.) Leak tests will be performed at intervals approved by NRC or an Agreements State and will be specified in the SSDR 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 Agreements State to provide leak test kits to other licensees and according to the kit supplier's instructions or meets the Criteria in the section entitled 'Radiation Safety Program – Leak Tests' in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.
- E. (ADD to Item No. 20) The licensee will implement and maintain procedures for routine maintenance of gauges according to each manufacturer's recommendations and instructions. Gauges will be sent to the manufacturer or other person authorized by NRC or an Agreement State to perform non-routine maintenance or repair operations that require removal of the source or source rod from the gauge.

11. WASTE MANAGEMENT.

- A. Licensed materials will be disposed of in accordance with NRC requirements by transfer to an authorized recipient. Appropriate records will be maintained.

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p>Licensee</p> <p>1. ABNA Engineering, Inc.</p> <p>2. 4140 Lindell Blvd St. Louis, MO 63108</p>	<p>In accordance with application dated September 28, 2009,</p> <p>3. License number 24-32415-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date August 31, 2012</p> <hr/> <p>5. Docket No. 030-36087 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cesium-137</p> <p>B. Americium-241</p> <p>C. Radium-226</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license.</p> <p>B. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license.</p> <p>C. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license.</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State. Total possession not to exceed a total of 80 millicuries.</p> <p>B. No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State. Total possession not to exceed a total of 400 millicuries.</p> <p>C. No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State. Total possession not to exceed a total of 18 millicuries.</p>
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<p>9. Authorized use</p> <p>A. and B. To be used in Campbell-Pacific Nuclear Corporation Model MC Series portable gauges for measuring physical properties of materials.</p>	
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- C. To be used in Seaman Nuclear Corporation Models C-200 and C-300 portable gauges for measuring physical properties of materials.

CONDITIONS

10. Licensed material may be used or stored at the licensee's facilities located at 4140 Lindell Blvd, St. Louis, Missouri and may be used at temporary job sites of the licensee anywhere in the United States where the U. S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. The Radiation Safety Officer (RSO) for this license is Raymond E. Bailey.
12. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in the application dated August 1, 2002.
13. 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 NRC 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 NRC 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.
- 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(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- E. Tests for leakage and/or contamination shall be performed by persons specifically licensed by the 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 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.
14. 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.

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15. Except for maintaining labeling as required by 10 CFR Part 20 or 71, the licensee shall obtain authorization from NRC before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the respective Certificates of Registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.
16. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by NRC, to account for all sources and/or devices received and possessed under the license.
17. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
18. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d), 40.36 (b) and 70.25 (d) for establishing decommissioning financial assurance.
19. Each portable gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport. **A minimum of two independent physical controls that form tangible barriers to secure portable gauges from unauthorized removal whenever the portable gauge is not under the control and constant surveillance of the licensee are required.**
20. Any cleaning, maintenance, or repair of the gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or other persons specifically licensed by the Commission or an Agreement State to perform such services.
21. A. If the licensee uses unshielded sealed sources extended more than 3 feet below the surface, the licensee shall use surface casing that extends from the lowest depth to 12 inches above the surface and other appropriate procedures to reduce the probability of the source or probe becoming lodged below the surface. If it is not feasible to extend the casing 12 inches above the surface, the licensee shall implement procedures to ensure that the cased hole is free of obstruction before making measurements.
B. If a sealed source or a probe containing sealed sources becomes lodged below the surface and it becomes apparent that efforts to recover the sealed source or probe may not be successful, the licensee shall notify the U. S. Nuclear Regulatory Commission and submit the report required by 10 CFR 30.50(b)(2) and (c). The licensee shall not abandon the sealed source or probe without obtaining the Commission's prior written consent.

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22. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated August 1, 2002; and

B. Facsimile dated February 9, 2006.

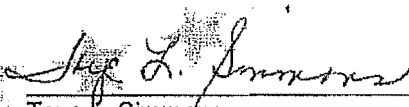


FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

DEC 24 2009

By


Toye L. Simmons
Materials Licensing Branch
Region III