

**ENVIROPROBE**  
**INTEGRATED SOLUTIONS, INC.**  
DRILLING + ENGINEERING + ENVIRONMENTAL PROFESSIONALS

Br. 2  
(New)

February 20, 2018

U.S. Nuclear Regulatory Commission Region II  
61 Forsyth Street SW Suite 23T85  
Atlanta, Georgia 30303-8931

47-35482-01  
03039103  
-----  
03121

REC RG 1 03 20 18 PM 12 06

Re: Application for Material License

To whom it may concern:

Please find attached a request for a new material license.

Please feel free to contact me at (304) 776-6717 or by email [bcgreene@enviroprobeinc.com](mailto:bcgreene@enviroprobeinc.com) should you have any questions or comments.

Sincerely,



Benjamin C. Greene II  
Health and Safety Manager

| <p><b>NRC FORM 313</b><br/>(8-1999)<br/>10 CFR 30, 32, 33<br/>34, 35, 36, 39 and 40</p>   | <p><b>U. S. NUCLEAR REGULATORY COMMISSION</b></p>   | <p>APPROVED BY OMB: NO. 3150-0120</p>   | <p>EXPIRES:08/31/2002</p> |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
|---|---|---|---------------------------|-----------------|--------------|----------|--|--|--|----|--|--|--|--|--|--|--|-------------|------|
| <p><b>APPLICATION FOR MATERIAL LICENSE</b></p>  |   | <p>Estimated burden per response to comply with this mandatory information collection request 7.4 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 Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@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, NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.</p> |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <p>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.</p>   |   |   |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <p>APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:<br/>DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY<br/>OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS<br/>U. S. NUCLEAR REGULATORY COMMISSION<br/>WASHINGTON, DC 20555-0001</p>  |   | <p>IF YOU ARE LOCATED IN:<br/>ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN.<br/>SEND APPLICATIONS TO:<br/><br/>MATERIALS LICENSING SECTION<br/>U. S. NUCLEAR REGULATORY COMMISSION, REGION III<br/>801 WARRENVILLE RD<br/>LISLE, IL 60532-4351</p>  |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <p>ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:<br/>IF YOU ARE LOCATED IN:<br/>CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,<br/>MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,<br/>RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:<br/><br/>LICENSING ASSISTANT SECTION<br/>NUCLEAR MATERIALS SAFETY BRANCH<br/>U. S. NUCLEAR REGULATORY COMMISSION, REGION I<br/>475 ALLENDALE ROAD<br/>KING OF PRUSSIA, PA 19406-1415</p>  |   | <p>ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,<br/>LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA,<br/>OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH,<br/>WASHINGTON, OR WYOMING. SEND APPLICATIONS TO:<br/><br/>NUCLEAR MATERIALS LICENSING SECTION<br/>U. S. NUCLEAR REGULATORY COMMISSION, REGION IV<br/>611 RYAN PLAZA DRIVE, SUITE 400<br/>ARLINGTON, TX 76011-8054</p>   |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <p>ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:<br/><br/>SAM NUNN ATLANTA FEDERAL CENTER<br/>U. S. NUCLEAR REGULATORY COMMISSION, REGION II<br/>81 FDRSYTH STREET, S.W., SUITE 23785<br/>ATLANTA, GEORGIA 30303-8931</p>   |   |   |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <p>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>  |   |   |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <p>1 THIS IS AN APPLICATION FOR (Check appropriate item)<br/><input checked="" type="checkbox"/> A NEW LICENSE<br/><input type="checkbox"/> B AMENDMENT TO LICENSE NUMBER _____<br/><input type="checkbox"/> C RENEWAL OF LICENSE NUMBER _____</p>  | <p>2 NAME AND MAILING ADDRESS OF APPLICANT (include Zip code)<br/><b>EnviroProbe Integrated Solutions, Inc.</b><br/><b>630 Cross Lanes Drive</b><br/><b>Nitro, WV 25143</b></p> |   |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <p>3 ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED<br/><b>630 Cross Lanes Drive, Nitro, WV 25143, and</b><br/><b>anywhere EnviroProbe maintains jurisdiction for</b><br/><b>regulating the use of radioactive materials.</b></p>  |   | <p>4 NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION<br/><br/>TELEPHONE NUMBER<br/><b>(304) 776-6717</b></p>  |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <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.</p>  |   |   |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <p>5 RADIOACTIVE MATERIAL<br/>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>7 INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE</p>   | <p>8 TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS</p>  |   |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <p>9 FACILITIES AND EQUIPMENT</p>   | <p>10 RADIATION SAFETY PROGRAM</p>  |   |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <p>11 WASTE MANAGEMENT</p>  | <p>12 LICENSEE FEES (See 10 CFR 170 and Section 170.31)<br/>FEE CATEGORY _____ AMOUNT ENCLOSED \$ _____</p>   |   |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <p>13 CERTIFICATION (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT<br/><br/>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<br/><br/>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> |   |   |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <p>CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE</p>   |   | <p>SIGNATURE</p>  | <p>DATE</p>               |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <p>FOR NRC USE ONLY</p>   |   |   |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">TYPE OF FEE</th> <th style="width:15%;">FEE LOG</th> <th style="width:15%;">FEE CATEGORY</th> <th style="width:15%;">AMOUNT RECEIVED</th> <th style="width:15%;">CHECK NUMBER</th> <th style="width:20%;">COMMENTS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td style="text-align: center;">\$</td> <td> </td> <td> </td> </tr> </table>  | TYPE OF FEE   | FEE LOG   | FEE CATEGORY              | AMOUNT RECEIVED | CHECK NUMBER | COMMENTS |  |  |  | \$ |  |  | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:40%;">APPROVED BY</td> <td style="width:20%;">DATE</td> </tr> </table> |  |  |  |  | APPROVED BY | DATE |
| TYPE OF FEE   | FEE LOG   | FEE CATEGORY  | AMOUNT RECEIVED           | CHECK NUMBER    | COMMENTS     |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
|   |   |   | \$                        |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |
| APPROVED BY   | DATE  |   |                           |                 |              |          |  |  |  |    |  |  |  |  |  |  |  |             |      |

**ITEMS 5 AND 6: MATERIALS TO BE POSSESSED AND PROPOSED USES**

| Yes | No | Radioisotope  | Manufacturer or Distributor Model No.  | Quantity  | Use As Listed on SSD Certificate  | Specify Other Uses Not Listed on SSD Certificate  |
|-----|----|---------------|--|---|---|---|
| X   |    | Cesium-137    | Sealed source manufacturer or distributor and model number:<br><u>Troxler Dwg. 102112</u><br><br>Device manufacturer or distributor and model number:<br><u>Troxler model 3440</u> | Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate | Yes <input checked="" type="checkbox"/><br><br>Specific description of the gauge use:<br><u>Measurement of physical properties of materials</u> | <input checked="" type="checkbox"/> Not applicable<br><br><input type="checkbox"/> Uses are:<br>_____<br>(Submit safety analysis supporting safe use) |
|     |    | Americium-241 | Sealed source manufacturer or distributor and model number:<br><u>102451</u><br><br>Device manufacturer or distributor and model number:<br><u>Troxler model 3440</u>              | Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate | Yes <input checked="" type="checkbox"/><br><br>Specific description of the gauge use:<br><u>Measurement of physical properties of materials</u> | <input checked="" type="checkbox"/> Not applicable<br><br><input type="checkbox"/> Uses are:<br>_____<br>(Submit safety analysis supporting safe use) |

APPENDIX B

| Yes  | No | Radioisotope             | Manufacturer or Distributor Model No.  | Quantity  | Use As Listed on SSD Certificate  | Specify Other Uses Not Listed on SSD Certificate  |
|--|----|--------------------------|--|---|---|---|
|  | X  | Californium-252          | Sealed source manufacturer or distributor and model number:<br><hr/> Device manufacturer or distributor and model number:<br><hr/> | Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate | Yes <input type="checkbox"/><br>Specific description of the gauge use:<br><hr/><br><hr/><br><hr/><br><hr/><br><hr/> | <input type="checkbox"/> Not applicable<br><hr/> <input type="checkbox"/> Uses are:<br><hr/> (Submit safety analysis supporting safe use) |
|  | X  | Other Isotope (Specify): | Sealed source manufacturer or distributor and model number:<br><hr/> Device manufacturer or distributor and model number:<br><hr/> | Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate | Yes <input type="checkbox"/><br>Specific description of the gauge use:<br><hr/>                                     | <input type="checkbox"/> Not applicable<br><hr/> <input type="checkbox"/> Uses are:<br><hr/> (Submit safety analysis supporting safe use) |
| <i>Financial Assurance Required and Evidence of Financial Assurance Provided</i> |    |                          |  |   |   |   |

## ITEMS 7 THROUGH 11: TRAINING AND EXPERIENCE, FACILITIES AND EQUIPMENT, RADIATION SAFETY PROGRAM, AND WASTE DISPOSAL

| Item No. And Title   | Suggested Response   | Yes  | Alternative Procedures Attached |
|--|--|--|---------------------------------|
| <p><b>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE – RADIATION SAFETY OFFICER</b></p> <p>Name: <u>Benjamin C. Greene</u> II</p> | <p>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 Officer" in NUREG-1556, Vol. 1, Rev. 1, dated September 2001.</p> | <input checked="" type="checkbox"/>  | <input type="checkbox"/>        |
| <p><b>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS</b></p>   | <p>Before using licensed materials, authorized users will have successfully completed one of the training course described in Criteria in the section entitled "Training for Individuals Working In or Frequenting Restricted Areas" in NUREG-1556, Vol. 1, Rev 1, dated September 2001.</p>   | <input checked="" type="checkbox"/>  | <input type="checkbox"/>        |
| <p><b>9. FACILITIES AND EQUIPMENT</b></p>  | <p>No information needs to be submitted in response to this item; key issues are addressed under "Radiation Safety Program – Public Dose" and "Radiation Safety Program – Operating and Emergency Procedures."</p>   | <b>Separate Item 9 Response<br/>Need Not Be Submitted With Application</b> |                                 |
| <p><b>10. RADIATION SAFETY PROGRAM – AUDIT PROGRAM</b></p>   | <p>The applicant is <i>not</i> required to, and should not, submit its audit program to NRC for review during the licensing phase.</p>   | <b>Need Not Be Submitted With Application</b>                              |                                 |
| <p><b>10. RADIATION SAFETY PROGRAM – TERMINATION OF ACTIVITIES</b></p>   | <p>The applicant is <i>not</i> required to submit a response to the termination of activities section during the initial application. However, when the license expires when the licensee ceases operation, NRC Form 314 must be submitted.</p>  | <b>Need Not Be Submitted With Application</b>                              |                                 |
| <p><b>10. RADIATION SAFETY PROGRAM – SURVEY INSTRUMENTS</b></p>  | <p>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, dated September 2001.</p>   | <input checked="" type="checkbox"/>  | <input type="checkbox"/>        |

APPENDIX B

| Item No. And Title   | Suggested Response  | Yes   | Alternative Procedures Attached  |
|--|---|---|--|
| 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.   | <input checked="" type="checkbox"/>   | <input type="checkbox"/>   |
| 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.   | <input checked="" type="checkbox"/>   | <input type="checkbox"/>   |
| 10. RADIATION SAFETY PROGRAM – PUBLIC DOSE                         | The applicant is <i>not</i> required to submit a response to the public dose section during the licensing phase. This matter will be examined during an inspection.   | <b>Need Not Be Submitted With Application</b>   |  |
| 10. RADIATION SAFETY PROGRAM – OPERATING AND EMERGENCY PROCEDURES  | <p>We will implement and maintain the operating and emergency procedures in Appendix H of NUREG-1556, Vol. 1, Rev. 1, dated September 2001, and provide copies of these procedures to all gauge users and at each job site.</p> <p style="text-align: center;"><b>OR</b></p> <p>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, dated September 2001.</p> | <input checked="" type="checkbox"/><br><br><br><br><br><br><br><br><br><br><input type="checkbox"/> | <input type="checkbox"/>   |
| 10. RADIATION SAFETY PROGRAM – LEAK TEST                           | 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 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.  | <input checked="" type="checkbox"/>   | <input type="checkbox"/><br><br><br><br><br><br><br><br><br><br><b>The information in Appendix J supporting a request to perform leak testing and sample analysis is attached.</b> |





## **RADIATION SAFETY PROGRAM**

### **I. FIRM LOCATION**

#### **A. Address**

EnviroProbe Integrated Solutions, Inc.  
630 Cross Lanes Drive  
Nitro, WV 25143  
Phone: (304) 776-6717  
Fax: (304) 776-6769

Mailing Address:  
EnviroProbe Integrated Solutions, Inc.  
630 Cross Lanes Drive  
Nitro, WV 25143

### **II. GAUGE DESCRIPTION**

#### **A. Troxler Surface Moisture-Density Gauge, Model No. 3440.**

Radiological Specification  
Gamma Source - 0.30 GBq (8mCi)  $\pm 10\%$  mCi Cs-137 TEL  
Neutron Source - 1.48 GBq (40 mCi  $\pm 10\%$  Am-241;Be  
Source Form - Stainless steel encapsulated.  
Shielding - Lead and Tungsten.  
Source Rod Containment - Stainless steel

### **III. STORAGE FACILITY**

#### **A. Permanent Location (630 Cross Lanes Drive, Nitro, WV 25143)**

1. The building is rigidly constructed, with adequate fire safety equipment and located in a non-incorporated or residential area.
2. The gauges are stored in a separate room or cabinet. The storage room/cabinet is located in a remote area where only occasional personnel use is anticipated. The area is kept locked and secured at all times with keys available only to



licensed operators. In addition, the gauge's source rod is kept locked when not in use.

3. The building and the room/cabinet both are posted with appropriate radiation warning signs.
4. The building is locked and secured during non-working hours. The building is equipped with a security system and is surrounded by a fence with locking gates along the rear perimeter of the lot.
5. The facility meets with the approval of the Radiation Safety Officer.
6. The facility shall always be subject to inspection for compliance to these requirements.
7. The Radiation Safety Officer or his designated alternate contact information will be posted in a visible location in case of emergencies.

**B. Temporary Location (If needed 963 Canyon Road, Morgantown, WV 26508)**

1. The building shall be rigidly constructed, with adequate fire safety equipment.
2. The gauge(s) will be stored in a separate room, if possible. If this is not possible, the storage cabinet will be located in a remote area where only occasional personnel use is anticipated. In either case, the area will be kept locked and secured at all times with keys available only to licensed operators. In addition, the gauge's source rod is kept locked when not in use.
3. The room or cabinet both will be posted with appropriate radiation warning signs.
4. The building will be locked and secured during non-working hours.
5. The facility will be inspected by and meet with the approval of the Radiation Safety Officer.
6. The building superintendent (if applicable) will be given the name, address and phone number of the Radiation Safety Officer and his designated alternate who can be contacted in case of emergency.
7. The facility shall always be subject to inspection for compliance to these requirements.

**C. Storage in Vehicle**

1. If the gauge is going to be stored overnight in vehicle the following conditions must be met:
  - a. Prior to approval by the Radiation Safety Officer will be necessary.
  - b. Vehicle must be locked, and appropriate warning signs will be utilized.
  - c. Vehicle must be kept at same location as where certified operator is staying. In addition, the vehicle must be parked in a well-lighted area for security reasons.

- d. At no time shall the gauge be taken inside a private residence or a motel room overnight.
  - e. Storage in the vehicle will be in a locked cab or storage bed that is covered and can be locked.
2. If an accident occurs with vehicle follow conditions under Emergency Procedures.

#### **IV. UNAUTHORIZED USE OF GAUGE**

1. Only certified operators have keys for access to gauges.
2. The building is locked and secured during non-working hours.
3. The storage area, where gauges are located, is kept locked at all times.

#### **V. FIRE PROTECTION**

1. Storage room/facility is of non-combustible construction.
2. Fire extinguishers are mounted on nearby walls.
3. Building conforms to existing State regulations and Codes.

#### **VI. OPERATOR'S QUALIFICATIONS**

1. To become a certified operator, the individual must have satisfactorily completed the operator's course for the gauge they will be using. The operators will be trained on the following topics:
  - a. Nature of sources.
  - b. Operation of equipment.
  - c. Safety procedures for normal operation.
  - d. Emergency procedures.
  - e. Packaging and shipping of radiation.
  - f. Radiation exposure factors.
  - g. Occupational dose limits.
  - h. Radiation monitoring.
  - i. Film badge usage.
  - j. Reporting malfunction or problems.
  - k. Emergency procedures.
2. Individual must be an employee and be certified to operate the gauge.
3. a certificate of training upon completion of the appropriate course will be issued to gauge operator.

## **VII. EXPOSURE MONITORING PROCEDURES**

1. Each certified operator may be provided with a monitoring film badge or thermoluminescent dosimeter which may be submitted to any Company having been approved for readout of gamma and neutron dosage each month.
2. A record of exposure information is maintained and monitored by the Radiation Safety Officer.
3. Under average conditions, at a distance of 2 ft. (0.6 m) from gauge a full-time operator working a 40 hour week can expect to receive about 20 MREM's per week (gamma and neutron) or 260 MREM's (gamma and neutron) per 13 weeks for his whole body. This dose is well within the limits prescribed in Code Rule 38 under Section 38.21.
4. Dose to general public is zero due to the following:
  - a. Only certified operators are allowed where gauge is stored.
  - b. Under field conditions no one except gauge operator is allowed within approximately 15 ft. (4.5 m) of gauge.

## **VIII. OPERATING AND EMERGENCY PROCEDURES**

### **A. Operating Procedures.**

1. If personal dosimetry is utilized, Operator(s) are required to wear them when using or transporting gauge.
2. Keep the source in the "safe" or stored position when not in use (this includes from one test location to another).
3. While exposure dose levels are well within limits for radiation workers, never expose yourself to the bare source without sufficient justification for the additional dose.
4. Keep all unauthorized persons out of operating area. Suggested distance 15 ft. (4.5 m).
5. Maintain security of the instrument at all times. The source lock shall be in place any time the gauge is not in use.
6. The gauge shall be kept in carrying case (shipping case – DOT 7A, Type A, Yellow II Label, 0.1 Transport Index) with source rod locked while in transit. It must be transported only by a certified operator in an approved vehicle.
7. The gauge while being transported in a vehicle shall be located in an area as far away from any person(s) as possible.
8. The vehicle, transporting the gauge, must be kept locked when unoccupied, or in the case of transporting in the bed of a pickup, the gauge must be secured in the bed of the truck with a locking mechanism.
9. If an accident occurs with vehicle while transporting gauge, follow conditions under Emergency Procedures.

**B. Emergency Procedures**

1. In the event of physical damage to the gauge, approximately 15 ft. (4.5 m) radius area will be secured by means of rope, stakes, signs or any other material that may be utilized to construct a boundary. This will be maintained until the extent of source damage (if any) is determined. If a vehicle is involved, it will be stopped and remained stopped until the extent of contamination hazard (if any) is determined. If visual examination of the instrument and source indicate damage to the sources, involving fracture of the weld, the Radiation Safety Officer, appropriate authorities and Troxler Electronic Laboratories Inc., will be notified for further instruction.
2. Immediate telephone notification will be made to the following in the event of accident or the loss of a gauge, whether accidental or due to theft:
  - a. Radiation Safety Officer.
  - b. Local Law Enforcement.
  - c. Troxler Electronic Laboratories.
3. A utilization log book is kept with gauge at all times. On the inside cover are the phone numbers to call in the event of an accident.
4. In case of fire, the Radiation Safety Officer will be notified along with the local fire department.

**IX. EQUIPMENT AND LICENSING INFORMATION NECESSARY FOR OPERATION (ALL ITEMS LISTED BELOW ARE TO BE KEPT WITH GAUGE AT ALL TIMES).**

**A. Utilization Log Book – information recorded is as follows:**

1. Important phone numbers in the event of malfunction or accident with gauge.
2. Model and serial number
3. Date and time of day gauge is removed from and returned to storage.
4. Name of operator.
5. Destination or job site location.
6. Signature of operator.

**B. Folder – information recorded is as follows:**

1. Copy of license issued with any amendments.
2. Personal identification.
3. Copy of Code Rule 38.
4. Notices of radioactive materials (signs, stickers, placards, etc).

5. Gauge operator's manual

#### **X. INVENTORY CONTROL**

1. A record is kept showing where gauges are located at all times.
2. Every 6 months, a thorough inventory is done (this coincides with leak testing schedule) to check gauges for usage and condition.

#### **XI. SERVICE**

1. All service to gauges will be done by Troxler Electronics Laboratories or any company licensed to provide the service.
2. At "no time" will any service be done by the operator

#### **XII. LEAK TEST**

1. The leak test is administered and monitored by the Radiation Safety Officer on a twice a year basis (a maximum of 6 months between tests).
2. The testing is done using an approved kit or instrument that is supplied or approved by Troxler Electronics Laboratories, or any company licensed to provide the leak testing service.
3. The test paper is then placed in plastic envelopes on which the following information is recorded:
  - a. Company name.
  - b. Address.
  - c. Gauge Model.
  - d. Gauge Serial No.
  - e. Source Serial No.
  - f. Date of test.
4. The plastic envelope is placed in a shipping envelope along with leak test analysis form which also contains the above information which is then shipped to Troxler Electronic Laboratories, Inc. or to any company which is licensed to provide such services, for analysis.

#### **XIII. DISPOSAL**

1. Any gauge which is no longer of any use to EnviroProbe Integrated Solutions, Inc. will be returned to the manufacturer for disposal.



**ACKNOWLEDGEMENT - RECEIPT OF CORRESPONDENCE**

|   |   |
|---|---|
| <b>Name and Address of Applicant and/or Licensee</b><br><br>Benjamin C. Greene, II<br>Health and Safety Manager<br>EnviroProbe Integrated Solutions, Inc.<br>630 Cross Lanes Drive<br>Nitro, WV 25143 | <b>Date</b><br>March 27, 2018   |
|   | <b>License Number(s)</b><br>Docket No. 03039103   |
|   | <b>Mail Control Number(s)</b><br>602715   |
|   | <b>Licensing and/or Technical Reviewer or Branch</b><br>Commercial, Industrial, R&D, and Academic Branch<br>Rec'd in RI on 03/20/18 |

This is to acknowledge receipt of your:  Letter and/or  Application Dated: February 20, 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, (610) 337-5239**