

**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: 06/31/2015**

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](mailto: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.**

<p><b>APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:</b></p> <p>OFFICE OF FEDERAL &amp; STATE MATERIALS AND ENVIRONMENTAL MANAGEMENT PROGRAMS DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001</p> <p><b>ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:</b></p> <p><b>IF YOU ARE LOCATED IN:</b></p> <p><b>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,</b></p> <p><b>SEND APPLICATIONS TO:</b></p> <p>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</p> <p style="text-align: right; font-size: 2em;">03030605</p>	<p><b>IF YOU ARE LOCATED IN:</b></p> <p><b>ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:</b></p> <p>MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, IL 60532-4352</p> <p style="text-align: right; font-size: 2em;">Br. 3</p> <p><b>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,</b></p> <p><b>SEND APPLICATIONS TO:</b></p> <p>NUCLEAR MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 1600 E. LAMAR BOULEVARD ARLINGTON, TX 76011-4511</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">REC'D 10/13/13 10:01</p>
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**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 type="checkbox"/> A. NEW LICENSE</p> <p><input type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER</p> <p><input checked="" type="checkbox"/> C. RENEWAL OF LICENSE NUMBER <u>41-24997-01</u></p>	<p>2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)</p> <p>Maymead, Inc. P.O. Box 911 Mountain City, TN 37683</p>
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<p>3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED</p> <p>Maymead, Inc. 1995 Roan Creek Road Mountain City, TN 37683 AND Temporary job sites anywhere in the US where the NRC maintains jurisdiction</p>	<p>4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION</p> <p>B.K. Mount</p> <table border="1"> <tr> <td>BUSINESS TELEPHONE NUMBER (423) 727-2000</td> <td>BUSINESS CELLULAR TELEPHONE NUMBER (423) 335-2180</td> </tr> <tr> <td colspan="2">BUSINESS EMAIL ADDRESS info@maymead.com</td> </tr> </table>	BUSINESS TELEPHONE NUMBER (423) 727-2000	BUSINESS CELLULAR TELEPHONE NUMBER (423) 335-2180	BUSINESS EMAIL ADDRESS info@maymead.com	
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BUSINESS EMAIL ADDRESS info@maymead.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.	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 <b>3P</b>	AMOUNT ENCLOSED \$ <b>1,500.00</b>
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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, 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  B.K. Mount - President	SIGNATURE 	DATE  7-29-13
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FOR NRC USE ONLY					
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

## ATTACHMENT TO APPLICATION FOR RADIOACTIVE MATERIAL LICENSE

### Item 5

Element and Mass Number a.	Chemical and/or Physical Form b.	Maximum Amount c.
Cesium 137	Sealed Source- (Troxler Drawing A-102112)	Not to exceed 9 mCi each source

The above listed radioisotopes to be used in Troxler 4640 series surface density gauges.

### Item 6

1. Material to be used for measuring density of construction materials on temporary job sites.

### Item 7

1. Donald Greer, Radiation Safety Officer:
  - a. Radiation theory and safety course
  - b. Radiation Safety Officer course
  - c. Field use of nuclear density gauges February 1997 - present
2. Instrotek, Inc., 5908 Triangle Drive, Raleigh, NC 27617 (North Carolina License #092-1073-1) provides the training for the theory and safe operation of nuclear testing equipment.

### Item 8

1. All individuals operating density gauges or having access to gauges and storage areas will attend a Safety Training Seminar and have a training certificate on file with the Radiation Safety Officer prior to such operation or access.
2. All records documenting the training of each person will be maintained on file for a minimum of two (2) years.

### Item 9

1. When not being used or transported, the density gauges will be stored in a specially constructed double locked storage area at the Maymead Corporate Office at 1995 Roan Creek Road, Mountain City, TN 37683.
2. When being transported, the density gauges will be in a locked enclosure away from the passenger compartment.

## Item 10

### 10.1 Personnel Monitoring Equipment

1. All personnel operating or having access to the density gauges will wear their assigned personal monitoring device.
2. Maymead, Inc. will use a thermo luminescent dosimeter service provided by an NRC or State approved facility. Changes will be made at three month intervals.

### 10.2 Radiation Detection Instruments

1. All personnel operating or having access to the density gauges will wear their assigned personal monitoring device.

### 10.3 Leak Testing

1. All personnel operating or having access to the density gauges will wear their assigned personal monitoring device.
2. The leak test will be performed by authorized personnel according to the manufacturers instructions at intervals not to exceed six (6) months.

### 10.4 Maintenance

1. Periodic maintenance will include cleaning and lubricating the gauges
2. The operator shall wear their personal monitoring device while performing any maintenance procedure.
3. At all times while performing maintenance the radioactive source will be kept in the safe, shielded position.
4. At no time will the radioactive source be removed from the gauge. For maintenance of this type, the gauge will be returned to the manufacturer.

### 10.5 Transportation of Devices to Field Locations

1. At all times during transport, the operator will have a properly completed Bill of Lading visible to persons entering the vehicle. A type "A" package certificate, a source certificate, and a copy of the emergency procedures accessible to the operator.
2. At all times during transport, the gauge shall be in the safe, shielded position and in the manufacturers transportation case. The case shall be properly labeled according to U.S. Department of Transportation requirements.
3. At all times during transport, the density gauge shall be fully secured and away from the passenger compartment. When transporting in an enclosed vehicle, the vehicle will be locked. When transporting in an open bed vehicle, the gauge will be securely fastened to the bed.
4. At all times during transport, the operator will have a properly completed Bill of Lading for each gauge.
5. Should overnight travel be required while transporting the density gauge, the gauge will be stored in the transporting vehicle, secured and out of view of unauthorized personnel. At no time will the gauge be transported or stored in the passenger compartment.

## 10.6 Operating and Emergency Procedures

1. Use of Personal Monitoring Devices
  - A. When using the density gauge, the operator will wear the personal monitoring device assigned to him. When not using the gauge, the personal monitoring device will be stored in a radiation free area designated by the RSO.
  
2. Use of the Nuclear Device
  - A. All personnel will be required to successfully complete an approved training course for the use of nuclear testing equipment prior to authorization to use the density gauge.
  - B. When the gauge is in the field, the authorized operator will maintain control of the gauge at all times. The gauge will never be left unattended.
  - C. The operator will keep radiation exposure as low as reasonably attainable. When not taking measurements the gauge will be returned to the manufacturers transportation case and secured in the transport vehicle.
  
3. Storage of the Density Gauge
  - A. When not being used or transported, the gauge will be returned to the permanent storage area.
  
4. Transportation
  - A. At all times during transport, the operator will have a properly completed Bill of Lading for each gauge visible to persons entering the vehicle.
  - B. At all times during transport, the density gauge will be in the safe, shielded position and in the manufactures' transportation case. The case will be properly labeled according to U.S. Department of Transportation requirements.
  - C. At all times during transport, the density gauge will be fully secured and away from the passenger compartment. When transporting in an enclosed vehicle the vehicle will be locked. When transporting in an open bed vehicle, the gauge will be securely fastened to the bed.
  - D. Should overnight travel be required while transporting the density gauge, the gauge will be stored in the transporting vehicle, secured and out of view of unauthorized personnel. At no time will the gauge be transported or stored in the passenger compartment.
  
5. Leak Testing
  - A. The test will be performed by authorized personnel according to the manufacturers instructions.
  - B. Leak tests will be performed on a six month interval.

6. Emergency Procedures

A. In the event of physical damage to a gauge, the following will be performed;

1. Determine if the radioactive source is intact in the gauge. If not, locate the source.
2. An area of 15 feet in radius from the gauge, or the radioactive source, if separated, must be sealed or cordoned off to prevent entry of unauthorized personnel.
3. If a vehicle is involved, it must not be moved until the extent of contamination, if any, of the vehicle is determined.
4. A visual inspection will be made to determine whether any damage to source housing or the source shield has been sustained.
5. Immediately following stabilization of the situation, notify the RSO, Donald Greer, at 423-727-2000 or 423-416-6053. Describe the present conditions and follow the instructions of the RSO. In the event the RSO cannot be located, notify W.B.Roark at 423-727-2000 or 423-335-4669.
6. In the event the gauge is lost or stolen, the RSO is to be notified immediately.
7. In the event of any emergency, the RSO will notify the appropriate NRC agency and comply with all instructions given by the agency.

11. Waste Management

1. Disposal of any gauge or radioactive material will consist of returning the gauge to the manufacturer or other approved disposal facility.

This is to acknowledge the receipt of your letter application dated

7/29/13, and to inform you that the initial processing which includes an administrative review has been performed.

Renew (41-24997-01)  
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

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A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 581475.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.