



## 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 internet e-mail to [Infocollections.Resource@nrc.gov](mailto: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 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.**

**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  
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

**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)**



A. NEW LICENSE



B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_



C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

**2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)**

DLZ American Drilling, Inc.  
4041 Martel St.  
Melvindale, MI 48122

**3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED**

STORAGE & DISPATCH:  
DLZ American Drilling, Inc.  
4041 Martel St.  
Melvindale, MI 48122

**4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION**

Gopalan Govender, PE, RSO

**BUSINESS TELEPHONE NUMBER**

313-383-32

**BUSINESS CELLULAR TELEPHONE NUMBER**

313-680-34

**BUSINESS EMAIL ADDRESS**

ggovender@dlz.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.**

**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 (Fees required only for new applications, with few exceptions\*)  
(See 10 CFR 170 and Section 170.31)**

**FEE CATEGORY**

3P

**AMOUNT  
ENCLOSED \$**

2,000.00

**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.

**CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE**

Shyam Rajadhyaksha  
Vice President & Secretary

**SIGNATURE**

*Shyam Rajadhyaksha*

**DATE**

7/7/15

**FOR NRC USE ONLY**

| 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          |
|----------|----|---|---|---|--|---|
| <b>X</b> |    | Cesium-137  | Sealed source manufacturer or distributor and model number:<br><br><b>Two (2) TROXLER 3440</b><br><br>Device manufacturer or distributor and model number:<br><br><b>Two (2) TROXLER 3440</b> | Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate | <input checked="" type="checkbox"/> <b>Yes</b><br><br>Specific description of the gauge use:<br><br><b>To be used in TWO (2) Troxler Model 3440 Moisture/Density gauges for measuring the physical properties of materials</b> | <input checked="" type="checkbox"/> <b>Not applicable</b> |
| <b>X</b> |    | Americium-241   | Sealed source manufacturer or distributor and model number:<br><br><b>Two (2) TROXLER 3440</b><br><br>Device manufacturer or distributor and model number:<br><br><b>Two (2) TROXLER 3440</b> | Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate | <input checked="" type="checkbox"/> <b>Yes</b><br><br>Specific description of the gauge use:<br><br><b>To be used in TWO (2) Troxler Model 3440 Moisture/Density gauges for measuring the physical properties of materials</b> | <input checked="" type="checkbox"/> <b>Not applicable</b> |
|          |    | Financial Assurance Required and Evidence of Financial Assurance Provided |   |   |  |   |

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

| Item No. And Title   | Response  | Yes  | Alternative Procedures Attached     |
|--|---|--|-------------------------------------|
| <b>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE – RADIATION SAFETY OFFICER</b><br><br>Name: <u>Gopalan Govender, PE</u> | 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 November 2001.<br><br><b>SEE ATTACHMENT</b> | <input checked="" type="checkbox"/>  | <input checked="" type="checkbox"/> |
| <b>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS</b>  | 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 November 2001.<br><b>SEE ATTACHMENT</b>   | <input checked="" type="checkbox"/>  | <input checked="" type="checkbox"/> |
| <b>9. FACILITIES AND EQUIPMENT</b>   | 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."<br><b>SEE ATTACHMENT</b>  | <b>Separate Item 9 Response</b><br><br><b>Need Not Be Submitted With Application</b> |                                     |
| <b>10. RADIATION SAFETY PROGRAM – AUDIT PROGRAM</b>  | The applicant is <i>not</i> required to, and should not, submit its audit program to NRC for review during the licensing phase.   | <b>Need Not Be Submitted With Application</b>  |                                     |
| <b>10. RADIATION SAFETY PROGRAM – TERMINATION OF ACTIVITIES</b>  | 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.  | <b>Need Not Be Submitted With Application</b>  |                                     |
| <b>10. RADIATION SAFETY PROGRAM – SURVEY INSTRUMENTS</b>   | 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 November 2001.  | <input checked="" type="checkbox"/>  |                                     |

| Item No. And Title  | Response   | Yes   | Alternative Procedures Attached     |
|---|--|---|-------------------------------------|
| <b>10. RADIATION SAFETY PROGRAM – MATERIAL RECEIPT AND ACCOUNTABILITY</b> | 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.<br><b>SEE ATTACHMENT</b>   | <input checked="" type="checkbox"/>           | <input checked="" type="checkbox"/> |
| <b>10. RADIATION SAFETY PROGRAM – OCCUPATIONAL DOSIMETRY</b>              | 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.<br><b>SEE ATTACHMENT</b>   | <input checked="" type="checkbox"/>           | <input checked="" type="checkbox"/> |
| <b>10. RADIATION SAFETY PROGRAM – PUBLIC DOSE</b>                         | 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.<br><b>SEE ATTACHMENT</b>   | <b>Need Not Be Submitted With Application</b> |                                     |
| <b>10. RADIATION SAFETY PROGRAM – OPERATING AND EMERGENCY PROCEDURES</b>  | 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 November 2001<br><b>SEE ATTACHMENT</b>   | <input checked="" type="checkbox"/>           | <input checked="" type="checkbox"/> |
| <b>10. RADIATION SAFETY PROGRAM – LEAK TEST</b>                           | 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"/>           |                                     |

| Item No. And Title  | Response   | Yes   | Alternative Procedures Attached |
|---|--|---|---------------------------------|
| <b>10. RADIATION SAFETY PROGRAM – MAINTENANCE</b>         | <p><i>Routine Cleaning and Lubrication</i> We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's recommendations and instructions.</p> <p><i>Non-Routine Maintenance</i></p> <p>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.</p> | <div>✓</div> <div>✓</div>                     |                                 |
| <b>10. RADIATION SAFETY PROGRAM – TRANSPORTATION</b>      | The applicant is <i>not</i> required to submit its response to transportation during the licensing process. However, this issue will be reviewed during inspection.  | <b>Need Not Be Submitted With Application</b> |                                 |
| <b>11. WASTE MANAGEMENT – GAUGE DISPOSAL AND TRANSFER</b> | The applicant is <i>not</i> required to submit a response to waste management during the licensing process. However, the licensee should develop, implement, and maintain gauge transfer and disposal procedures in its radiation protection program.  | <b>Need Not Be Submitted With Application</b> |                                 |

## **ITEM 7 – INDIVIDUAL (S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE – RADIATION SAFETY OFFICER (RSO)**

Gopalan Govender, P.E. is designated as the RSO for DLZ American Drilling, Inc. Mr. Govender has independent authority to stop operations that he considers unsafe. He will have sufficient time and commitment from management to fulfill all duties and responsibilities to ensure that radioactive materials are used in a safe manner. Mr. Govender's duties and responsibilities include the following:

- Possession, use, storage, and maintenance of sources and gauges are consistent with the limitations in the license, the Sealed Source and Device Registration sheet(s), and manufacturer's recommendations and instructions.
- Individuals using gauges are properly trained.
- When necessary, personnel monitoring devices are used and exchanged at the proper intervals; records of the results of such monitoring are maintained.
- Gauges are properly secured.
- Proper authorities are notified in case of accident, damage to gauges, fire or theft.
- Unusual occurrences involving the gauge (e.g. accident, damage) are investigated, cause(s) and appropriate corrective action are identified, and corrective action is taken.
- Audits are performed at least annually and documented, and corrective actions taken.
- Licensed material is transported in accordance with all applicable Department of Transportation (DOT) requirements.
- Licensed material is disposed of properly.
- Appropriate records are maintained.
- Up-to-date license is maintained and amendment and renewal requests submitted in a timely manner.

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 Revised, "Consolidated Guidance about Material Licenses: Program-Specific Guidance about Portable Gauge Licenses," dated November 2001.

Before being named as the RSO, future RSO's 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 Revised, "Consolidated Guidance about Material Licenses: Program-Specific Guidance about Portable Gauge Licenses," dated November 2001.

## **ITEM 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 NUREG-1556, Vol. 1 Revised, "Consolidated Guidance about Material Licenses: Program-Specific Guidance about Portable Gauge Licenses," dated November 2001. Records will be maintained for training of all individuals that work with licensed materials, and individuals that work in or frequent restricted areas.

## **ITEM 9 – FACILITIES AND EQUIPMENT**

All licensed materials shall be stored in a manner to allow for minimum possible exposure limits to employees of DLZ American Drilling, Inc. and the public.

## **ITEM 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.

### **OCCUPATIONAL DOSIMETRY**

DLZ will either 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 possessed and evaluated by a HVLAP-approved processor that is exchanged at a frequency recommended by the processor.

### **PUBLIC DOSE**

All licensed materials shall be stored in a manner to allow for minimum possible exposure limits to employees of DLZ American Drilling, Inc. and the public.

### **EMERGENCY AND OPERATING PROCEDURES**

DLZ American Drilling, Inc. will implement and maintain the operating and emergency procedures in accordance to Appendix H of NUREG-1556, Vol. 1 Revised, "Consolidated Guidance about Material 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.



6121 Huntley Rd.  
Columbus, OH 43229

COLUMBUS  
OH 430  
10 JUL '15  
PM 7 L

neopost  
07/08/2015  
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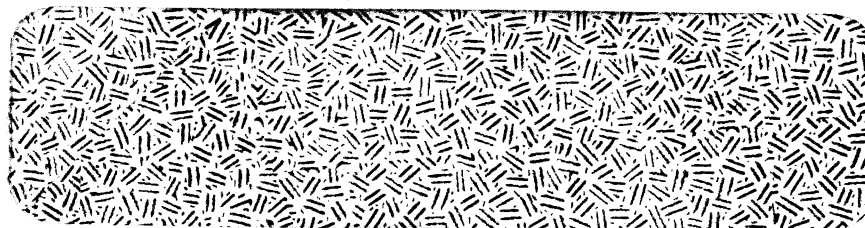
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