NRC FORM 591M PART 1
(07-2012)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

# SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

| 1. LICENSEE/LOCATION INSPECTED: | 2. NRC/REGIONAL OFFICE |
|---|---|
| DLZ American Drilling, Inc.<br>4041 Martel Street<br>Melvindale, MI 48122<br><br>REPORT NUMBER(S) 2016001 | Region III<br>U. S. Nuclear Regulatory Commission<br>2443 Warrenville Road, Suite 210<br>Lisle, IL 60532-4352 |

| 3. DOCKET NUMBER(S) | 4. LICENSE NUMBER(S) | 5. DATE(S) OF INSPECTION |
|---|---|---|
| 030-38854 | 21-35256-01 | July 12, 2016 |

**LICENSEE:**

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows:

☑ 1. Based on the inspection findings, no violations were identified.

☐ 2. Previous violation(s) closed.

☐ 3. The violations(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, to exercise discretion, were satisfied.

_____ Non-cited violation(s) were discussed involving the following requirement(s):

☐ 4. During this inspection, certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited in accordance with NRC Enforcement Policy. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.
(Violations and Corrective Actions)

## Statement of Corrective Actions

I hereby state that, within 30 days, the actions described by me to the Inspector will be taken to correct the violations identified. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested.

| TITLE | PRINTED NAME | SIGNATURE | DATE |
|---|---|---|---|
| LICENSEE'S REPRESENTATIVE | | | |
| NRC INSPECTOR | Ryan Craffey, Health Physicist | Ryan Craffey | 7/26/16 |
| BRANCH CHIEF | Aaron McCraw, Chief, MIB | Robert D. Hatton, Jr. for ATM | 8/1/16 |

NRC FORM 591M PART 3
(07-2012)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

*Docket File Information*

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| 1. LICENSEE/LOCATION INSPECTED: | 2. NRC/REGIONAL OFFICE |
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| 6. INSPECTION PROCEDURES USED | 7. INSPECTION FOCUS AREAS |
|---|---|
| 87124 | All |

## SUPPLEMENTAL INSPECTION INFORMATION

| 1. PROGRAM CODE(S) | 2. PRIORITY | 3. LICENSEE CONTACT | 4. TELEPHONE NUMBER |
|---|---|---|---|
| 03121 | 5 | Gopalan Govender, PE - RSO | (313) 961-4040 |

☑ Main Office Inspection  Next Inspection Date: 07/12/2021

☐ Field Office Inspection _____

☐ Temporary Job Site Inspection _____

## PROGRAM SCOPE

This was an announced initial inspection of a geotechnical consulting firm authorized by a byproduct materials license issued on September 14, 2015, to use or store Troxler portable moisture density gauges at its facility in Melvindale, Michigan, and to use these gauges at temporary job sites in NRC jurisdiction. At the time of the inspection, the licensee possessed one gauge, which it received in May 2016 from the company's office in Columbus, Ohio. The licensee expected to transfer an additional gauge from Columbus to Melvindale in the near future. The company had seven authorized users at the Melvindale office, though only two were considered active. These individuals had so far used the licensee's gauge on two construction projects in eastern Michigan starting in June 2016. The licensee had access to a survey instrument from its Columbus office.

PERFORMANCE OBSERVATIONS

The inspector toured the facility in Melvindale to evaluate the licensee's measures for materials security, hazard communication and exposure control. The inspector conducted independent surveys in and around the gauge storage location; readings at the surface of the gauge were consistent with those indicated in the device's Safety Evaluation in the Sealed Source and Device Registry, while readings in the vicinity of the storage room were indistinguishable from background. The inspector also confirmed that the licensee maintained at least two barriers to secure gauges in storage. The inspector was unable to observe any licensed activities, as none were scheduled or in-progress at the time of the inspection. Instead, the licensee's staff demonstrated the implementation of established procedures for use, transport, emergency response, and routine maintenance of portable gauges. The inspector also discussed with the licensee's management the conduct of gauge user training, periodic audits, and the implementation of tracking mechanisms for various periodic requirements. Through these demonstrations and other discussions, the inspector found the licensee's staff to be knowledgeable of radiation protection principles and regulatory requirements.

The inspector also reviewed a selection of licensee records, including utilization logs, leak test results, inventories, gauge user training, and the licensee's operating and emergency procedures.



BB for ATM