

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

|   |   |   |
|---|---|---|
| 1. LICENSEE/LOCATION INSPECTED:<br><br>Geotechnics<br>A Division of Klingner & Associates, P.C.<br>4510 Paris Gravel Road<br>Hannibal, MO 63401<br><br>REPORT NUMBER(S) 2019001 |   | 2. NRC/REGIONAL OFFICE<br><br>Region III<br>U. S. Nuclear Regulatory Commission<br>2443 Warrenville Road, Suite 210<br>Lisle, IL 60532-4352 |
| 3. DOCKET NUMBER(S)<br><br>030-21086  | 4. LICENSE NUMBER(S)<br><br>24-23444-01 | 5. DATE(S) OF INSPECTION<br><br>May 23, 2019  |

## 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:


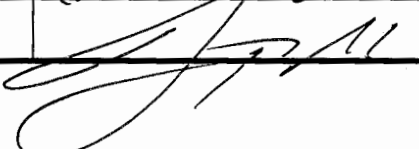
- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was 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             | Dennis P. O'Dowd |  | 05/23/19 |
| BRANCH CHIEF              | Aaron T. McCraw  |  | 6/14/19  |

**Docket File Information**

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| 6. INSPECTION PROCEDURES USED<br><br>87124  | 7. INSPECTION FOCUS AREAS<br><br>03.01-03.07 |   |  |

**SUPPLEMENTAL INSPECTION INFORMATION**

|  |                      |   |   |
|--|----------------------|---|---|
| 1. PROGRAM CODE(S)<br><br>03121  | 2. PRIORITY<br><br>5 | 3. LICENSEE CONTACT<br><br>Ronald Craven, RSO | 4. TELEPHONE NUMBER<br><br>(573) 221-7714 |
| <input checked="" type="checkbox"/> Main Office Inspection      Next Inspection Date: 05/23/2024 |                      |   |   |
| <input type="checkbox"/> Field Office Inspection _____   |                      |   |   |
| <input type="checkbox"/> Temporary Job Site Inspection _____                                     |                      |   |   |

**PROGRAM SCOPE**

This was a routine, unannounced inspection of an engineering firm authorized to use Cs-137 and Am-241:Be in Troxler portable moisture-density gauging devices for measuring physical properties of materials at its facility in Hannibal, Missouri, and at temporary job sites within NRC jurisdiction. The licensee employed seven authorized gauge users (only two of whom are primary users) and possessed two Troxler portable gauges. The devices were stored at the authorized main office location in a designated, locked storage closet. The licensee did not perform any service or maintenance activities on the gauge. During the licensee's "busy months" from March to November the gauges were used approximately 15-25 times a month. The devices were typically used at temporary job sites within a 100-mile perimeter of the main office location. Additionally, the Radiation Safety Officer performed annual audits of the radiation safety program.

**PERFORMANCE OBSERVATIONS**

The inspector toured the licensee's facility in Hannibal, Mo. and found that the gauges were adequately secured by at least two independent physical controls. Independent and confirmatory surveys of unrestricted areas found no readings in excess of public dose limits. The gauges were not in use at the time of inspection. An authorized user satisfactorily described and demonstrated to the inspector the licensee's methods for transporting and using the gauge, including means of using two tangible barriers for securing the gauge when unattended and stored at temporary job sites, and maintaining shipping papers. The authorized user described satisfactory methods for gauge use, maintenance, leak testing, and emergency response. Through this and other discussions, the inspector found that licensee staff were knowledgeable of radiation protection principles and NRC requirements.

The inspector reviewed a selection of licensee records, including use logs, leak test results, training certificates (including DOT Hazmat training), annual program audits, and dosimetry reports.

No violations of NRC requirements were identified as a result of this inspection.