

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:

Shannon and Wilson, Inc.  
2043 Westport Center Drive  
Suite 314  
St. Louis, MO 63146-3564

REPORT NUMBER(S) 2015-001

2. NRC/REGIONAL OFFICE

Region III  
U. S. Nuclear Regulatory Commission  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

3. DOCKET NUMBER(S)

030-37136

4. LICENSE NUMBER(S)

24-18839-02

5. DATE(S) OF INSPECTION

May 11<sup>th</sup>, 2015

**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:

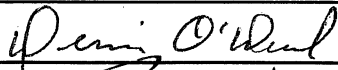
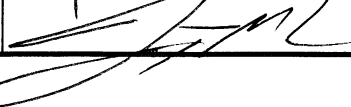
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is 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 O'Dowd		05/14/15
BRANCH CHIEF	Aaron T. McCraw		6/3/15

**Docket File Information**  
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6. INSPECTION PROCEDURES USED  87124	7. INSPECTION FOCUS AREAS  03.01-03.07
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**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  03121	2. PRIORITY  5	3. LICENSEE CONTACT  William B. Kremer, P.E., RSO	4. TELEPHONE NUMBER  (314) 699-9660
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Main Office Inspection                      Next Inspection Date: 05/12/2020  
 Field Office Inspection \_\_\_\_\_  
 Temporary Job Site Inspection Perryville, Missouri

**PROGRAM SCOPE**

This was a routine, unannounced inspection. The licensee is an engineering company located in St. Louis, Missouri. The licensee possessed five Troxler Model 3400 series portable moisture-density gauges that were used to evaluate soil compaction on construction sites in and around the St. Louis, Missouri area. The company employs a staff of approximately 30 individuals. There are eight authorized gauge users on staff.

**Performance Observations**

The inspector toured the gauge storage area at the licensee's main facility in St. Louis, MO, and observed that there were two locked hasps to each of the gauge storage cabinets, therefore, having two independent physical controls that formed a tangible barrier to secure portable gauges in storage. The licensee also had an interior security camera overlooking the gauge storage area. The inspector also performed radiation surveys around the devices and device storage area, which indicated radiation levels expected for the type and quantity of material possessed. Interviews of licensee personnel indicated an adequate level of knowledge of radiation safety, gauge handling techniques, and emergency procedures. The inspector also reviewed select records, and confirmed that annual radiation exposures were well below 10% of the occupational limit, that periodic inventories and leak testing of sealed sources were conducted as required, that daily utilization logs were maintained, and that the licensee had access to a survey instrument. All of the authorized users had obtained initial and refresher hazardous material transportation training.

As part of the inspection, on May 12, 2014, the inspector conducted a field site inspection of licensed activities, including use and transport, near Perryville, Missouri. The inspector observed that the licensee secured the gauge in an open bed pick-up truck using two locks and two chains, therefore, having two independent physical controls that formed a tangible barrier to secure portable gauges. The gauge case was also locked, and properly blocked and brace for transport. The inspector verified that the gauge user carried proper shipping papers (including an extra set), which listed a valid emergency contact telephone number. The inspector affirmed the gauge user's understanding of the transportation requirements.

No violations were identified during this inspection.