



## **PART I – LICENSE, INSPECTION, INCIDENT/EVENT AND ENFORCEMENT HISTORY**

### **1. AMENDMENTS AND PROGRAM CHANGES SINCE LAST INSPECTION:**

<u>AMENDMENT #</u>	<u>DATE</u>	<u>SUBJECT</u>
8	Dec. 2017	New location, release previous facility
7	Jan. 2016	Appoint new RSO
6	Jul. 2014	Renewal

### **2. INSPECTION AND ENFORCEMENT HISTORY:**

The last routine inspection, performed in November 2013, resulted in two Severity Level IV violations concerning: (1) providing hazmat training to personnel who transport gauges, as required by 10 CFR 71.5(a) and 49 CFR 172.704(c), and (2) performing program reviews at least annually, as required by 10 CFR 20.1101(c). Both violations remain open because similar violations were identified during this inspection. The previous routine inspection, performed in April 2009, resulted in no violations.

Since the last routine inspection, the NRC performed two special inspections of this program. The first, performed in January 2016, resulted from a notification that the previous RSO had left and naming a new RSO, and the second, performed in December 2017, resulted from a notification that the gauge storage area had been moved to a new facility. In both cases, Severity Level IV violations were cited concerning: (1) the failure for the individual identified on the license to perform the duties of the RSO for a period of approximately four months, as required by License Condition 12 of the NRC license, and (2) the failure to store gauges only at locations authorized by the license, as required by 10 CFR 30.34(c). The licensee completed corrective actions as described to the NRC during the special inspections, and discussions between the company president and the inspector indicated that the president understood these requirements and would provide the NRC timely notifications in the future. Based on this, these two violations are closed.

### **3. INCIDENT/EVENT HISTORY:**

No open items or events since the last routine inspection.

## **PART II – INSPECTION DOCUMENTATION**

### **1. ORGANIZATION AND SCOPE OF PROGRAM:**

The licensee was an engineering firm that possessed two portable gauges as described on the license for use routinely during the construction season (May-October) for soils engineering projects. The licensee employed one authorized gauge user who had completed manufacturers training, but was planning to hire an additional gauge user in the near future. The gauges were used mostly in the Grand Rapids area, though they were also used on a project in Jackson, Michigan. The licensee did not perform any service or maintenance activities on its gauges; these services were performed by a licensed service provider.

2. SCOPE OF INSPECTION:

Inspection Procedure(s) Used: 87124

Focus Areas Evaluated: 03.01-03.07

At the time of this inspection, the gauges were not in use. The inspector observed the gauges in secure storage inside the licensee's facility. Licensee staff demonstrated the use and transport of gauges, including security of gauges at the job site. The operator possessed required shipping papers which contained all appropriate information and would be accessible in the transport vehicle. The operator demonstrated an adequate level of understanding of emergency and handling procedures. The inspector determined that the licensee secured the gauges in accordance with the two barriers rule in both their storage facility, in vehicles, and at temporary job sites. Interviews with licensee personnel indicated adequate knowledge of radiation safety concepts and procedures. Review of dosimetry records indicated no exposures of regulatory concern.

3. INDEPENDENT AND CONFIRMATORY MEASUREMENTS:

Using a calibrated survey instrument, the inspector conducted independent surveys of the gauge storage area at the licensee's facility in Grand Rapids, Michigan. The inspector found no readings which would indicate residual contamination or exposures to members of the public in excess of regulatory limits.

4. VIOLATIONS, NCVs, AND OTHER SAFETY ISSUES:

- A. The inspector identified a violation of 10 CFR 71.5(a) and 49 CFR 172.704(c), which require, in part, that a hazmat employee receive initial training, and recurrent training at least once every three years. The RSO was the sole gauge user at the time and did not remember taking this training since he had initially taken manufacturer's training more than three years ago. No documentation of such training since that initial training was available in the licensee's radiation safety files. The root cause of the violation was that the RSO, who had been appointed as RSO since the previous routine inspection, was unaware of the requirement. At the time of the exit meeting with the RSO on April 5, 2018, the RSO stated that, as corrective action, he had completed online hazmat training. He further stated that he would track this training to ensure that the three-year recurrent training requirement for the RSO and any other gauge users was met in the future.
- B. The inspector identified a violation of 10 CFR 20.1101(c), which requires that the licensee periodically (at least annually) review the radiation protection program content and implementation. The RSO had not performed any such reviews since the previous RSO left the licensee's employment in July 2015. The root cause of the violation was that the new RSO was unaware of the requirement. At the time of the exit meeting with the RSO on April 5, 2018, the RSO stated that he had completed a review of the licensee's radiation safety program using the sample audit form in NUREG 1556, Volume 1, Rev. 2. He further stated that he would track audits to ensure they were performed annually in order to maintain compliance with this requirement.

5. PERSONNEL CONTACTED:

# Douglas Hughes, RSO  
David Kuipers, President

# Attended telephonic exit meeting on April 5, 2018.

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