

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED: BEL Environmental Engineering, LLC 1179 Hendersonville Road Sandy Lake, PA 16145 Location Inspected: Job Site in Brook, IN REPORT NUMBER(S) 2018002		2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S) 150-00037	4. LICENSE NUMBER(S) PA-1448	5. DATE(S) OF INSPECTION May 21, 2018	

**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)

Contrary to 10 CFR 30.34(i), during business hours on May 18-21, 2018, BEL Environmental Engineering, LLC used only one independent physical control that formed a tangible barrier (a locking hasp on a storage room door) to secure a Troxler 3400 series portable gauge from unauthorized removal, whenever the gauge was not under the control and constant surveillance by authorized personnel.

As corrective action, the licensee immediately secured the locked gauge case to a large filing cabinet in the room using a locked chain intended for use during transport, to provide a second physical control. Shortly thereafter, the licensee obtained and installed an additional hasp on the door, as well as an eye bolt mounted in an adjacent baseboard, through which the locked chain attached to the gauge case was then secured.

**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	ERNEST J. EGGER	<i>EJ. Egger</i>	6/26/18
NRC INSPECTOR	Ryan Craffey	<i>Ryan Craffey</i>	05/30/2018
BRANCH CHIEF	Aaron McCraw	<i>Aaron McCraw</i>	06/01/2018

**Docket File Information**  
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6. INSPECTION PROCEDURES USED  87124	7. INSPECTION FOCUS AREAS  All
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**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  03121	2. PRIORITY  5	3. LICENSEE CONTACT  Ernest Egger - RSO	4. TELEPHONE NUMBER  (724) 376-7418
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Main Office Inspection                      Next Inspection Date:                      TBD

Field Office Inspection \_\_\_\_\_

Temporary Job Site Inspection    Newton County Landfill, 2266 E 500 S, Brook, IN

**PROGRAM SCOPE**

This was an unannounced field inspection of a solid waste consulting firm authorized by the Commonwealth of Pennsylvania to possess and use portable gauges for measuring the physical properties of materials at a facility in Sandy Lake, Pennsylvania, and at temporary job sites within the Commonwealth. The licensee conducted these activities in NRC jurisdiction under a reciprocity request filed in April 2018 for the remainder of the calendar year. The scope of this inspection was limited to the firm's plans to conduct licensed activities (soil compaction testing) as part of landfill construction quality assurance for a new cell at the Newton County Landfill outside of Brook, Indiana.

PERFORMANCE OBSERVATIONS: The inspector visited the landfill in Brook and interviewed the authorized user present at the job site. The user took possession of one portable gauge (rented from the manufacturer) on May 18, 2018, but had not yet used it, as construction of the cell had not yet progressed to the point of requiring compaction testing. The inspector discussed with the authorized user the licensee's plans for the conduct of licensed activities, including precautions for transporting the gauge and responding to postulated emergencies, and found the authorized user to be knowledgeable of radiation protection principles and safe use procedures. The inspector also toured and surveyed the gauge storage location on the premises to evaluate the licensee's measures for materials security, hazard communication, and exposure control.

During this evaluation, the inspector identified a SLIV violation of 10 CFR 30.34(i) for the use of only one barrier to secure the portable gauge. Since taking possession of the gauge, the licensee had stored it in one room of what used to be a residence adjacent to (but now on the premises of) the landfill. The room was secured with a locked hasp on the door (its handle could lock, but the licensee did not have the key), and the building was locked and the landfill secured and patrolled after hours. Inside the room, the gauge was locked inside its case, however the case was not secured to anything else. The inspector determined that the root cause of the violation was a misunderstanding of whether the building constituted a barrier. As corrective action, the authorized user immediately secured the locked gauge case to a large filing cabinet in the room using a locked chain intended for transport, as a means to provide a second physical control. Shortly thereafter, the licensee obtained and installed an additional hasp on the door, as well as an eye bolt mounted in an adjacent baseboard, through which the locked chain attached to the gauge case was then secured.