

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  Lone Star Industries, Inc. d/b/a Buzzi Unicem USA 3301 South County Road, 150 West Greencastle, IN 46135  REPORT NUMBER(S) 15-001	2. NRC/REGIONAL OFFICE  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Rd, Suite 210 Lisle, IL 60532
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3. DOCKET NUMBER(S)  030-38795	4. LICENSE NUMBER(S)  13-12374-02	5. DATE(S) OF INSPECTION  December 16, 2015
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**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	Zahid Sulaiman	<i>Zahid Sulaiman</i>	12/22/15
BRANCH CHIEF	Aaron T. McCraw	<i>[Signature]</i>	12/24/15

**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)  03120	2. PRIORITY  5	3. LICENSEE CONTACT  Craig Williams, RSO	4. TELEPHONE NUMBER  (765) 653-9766
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Main Office Inspection                      Next Inspection Date:                      12/16/2020

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

Temporary Job Site Inspection \_\_\_\_\_

**PROGRAM SCOPE**

This was an initial inspection of a concrete manufacturing facility that uses fixed gauges for making density and fill level measurements. This was an initial inspection because the new license no. 13-12374-02 was issued on December 18, 2014. The previous license no. 13-12374-01, expired on April 30, 2014. The licensee did not renew the previous license because the radiation safety officer (RSO) changed position and no one took charge of renewing the license. The licensee continued to use the fixed gauges following the expiration of the license. The NRC issued one SL IV Non-Cited Violation of 10 CFR 30.36(c)(1), which states that each specific license continues in effect, beyond the expiration date, with respect to possession of byproduct until the Commission notifies the licensee in writing the license is terminated. The licensee possessed six Berthold Technologies Model LB7440 Series gauges containing sealed sources of cesium-137 and one Berthold Technologies Model LB7442 Series gauge containing a sealed source of cobalt-60. The gauges were mounted at the location of use indicated in the NRC license. The licensee was not authorized to perform any non-routine maintenance or service activities on the gauges.

**Performance Observations:**

The inspector observed RSO conduct a physical inventory of all the gauges and all gauges were accounted for. The inspector physically observed the location and areas where the gauges were installed and had adequate postings. The inspector conducted independent surveys in the vicinity of all the gauges and found radiation level at or near background levels of <0.04 mrem/hour. The inspector interviewed the RSO about the leak tests, shutter checks, lock-out and emergency procedures. The inspector found the RSO had an adequate level of understanding of radiation protection principles and regulatory requirements. The licensee conducted leak tests on all of their gauges at appropriate intervals. The inspector also reviewed the shutter check test records and the leak tests report of all gauges, no issues were noted. The licensee had adequate documentation in their fixed gauge owners' manuals to demonstrate that employees will not receive more than 10 percent of regulatory dose limits; therefore, personnel dosimetry was not required.

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