



**Docket File Information**

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  ESSROC Cement Corporation Highway 31 Speed, IN 47172  REPORT NUMBER(S) 2018001	2. NRC/REGIONAL OFFICE  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
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3. DOCKET NUMBER(S)  030-33669	4. LICENSE NUMBER(S)  13-26609-01	5. DATE(S) OF INSPECTION  03/26/18, with in-office review through 04/26/18
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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)  03120	2. PRIORITY  5	3. LICENSEE CONTACT  Rebecca Corder - RSO	4. TELEPHONE NUMBER  (812) 245-7747
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Main Office Inspection      Next Inspection Date: 03/26/2023

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

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

**PROGRAM SCOPE**

This was an unannounced routine inspection of a construction materials manufacturer authorized to use sealed sources of radioactive material for density and fill level measurements and bulk materials analysis at its cement plant in Speed, Indiana. At the time of the inspection, the licensee used one Vega Americas SH-F1 gauge containing Cs-137, and one Thermo Electron CBX cross-belt analyzer containing Cf-252 on its process lines. The RSO was the only plant employee involved in the oversight of these gauges, while the manufacturers of each gauges performed leak test collection and analysis, shutter checks, and non-routine maintenance including periodic source exchanges for the CBX. The RSO also provided radiation awareness training to licensee staff involved in the routine use of the gauges.

**PERFORMANCE OBSERVATIONS**

The inspector toured the facility in Speed to evaluate the licensee's measures for materials security, hazard communication, and exposure control. The inspector conducted independent surveys in the vicinity of both source holders, and found no exposures in unrestricted areas in excess of regulatory limits to members of the public, nor any unusual readings in the vicinity of the devices. The inspector found both gauges in good condition and in environments appropriate for their use (the SH-F1 gauge was in extremely dusty environment but was covered to minimize intrusion of particulate matter). The inspector interviewed the RSO and other members of the licensee's staff to discuss routine and non-routine maintenance of the devices, as well as lock-out / tag-out procedures and emergency response measures. The inspector found the staff adequately knowledgeable of radiation safety principles, regulatory requirements, and licensee procedures.

The inspector reviewed a selection of records while on-site, including recent semiannual leak tests and shutter checks of the CBX device. During the period of in-office review, the inspector also reviewed a selection of records not available at the time of the inspection, including documentation of surveys conducted by the manufacturer following the most recent CBX source exchange in August 2016, as well as recent semiannual leak tests and shutter checks for the SH-F1 gauge.

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

## **Craffey, Ryan**

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**From:** Craffey, Ryan  
**Sent:** Thursday, May 10, 2018 3:29 PM  
**To:** 'Rebecca.Corder@lehighhanson.com'  
**Subject:** NRC Inspection Report  
**Attachments:** NRC Inspection Report - ESSROC Cement 2018.pdf

Good afternoon Rebecca,

Attached is a completed copy of the report for my inspection of your radiation safety program back in March. Since no violations were identified, no additional action on your part is required, but please feel free to contact me any time if we may be of assistance to you in the future.

Thanks!

### **Ryan Craffey**

Health Physicist  
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