

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:  Cargill, Inc. 1100 Indianapolis Blvd. Hammond, IN  REPORT NUMBER(S) 2017-001		2. NRC/REGIONAL OFFICE  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S)  030-33973	4. LICENSE NUMBER(S)  13-06932-03	5. DATE(S) OF INSPECTION  12/15/17	

## 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)

10 CFR 30.36(d) requires, in part, that licensees provide notification to the NRC in writing within 60 days of when no principal activities have been conducted for a period of 24 months in any separate building or outdoor area that contains residual radioactivity such that the building or outdoor area is unsuitable for release in accordance with NRC requirements. Contrary to the above, as of 12/15/17, no principal activities had been conducted for a period of 24 months in two separate buildings that contained residual radioactivity such that the buildings were unsuitable for release in accordance with NRC requirements, and the licensee failed to notify the NRC in writing within 60 days of those occurrences. Specifically, separate building 53-2 contained a Texas Nuclear fixed gauge Model 5191 containing a cesium-137 sealed source that was not used since 6/11/14.

## 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	Robert G. Gattone, Jr.	<i>Robert G. Gattone, Jr.</i>	1/2/18
BRANCH CHIEF	Aaron T. McCraw	<i>[Signature]</i>	1/4/18

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(Continued)

In addition, separate building 87 contained a Texas Nuclear fixed gauge Model 5201 containing a cesium-137 sealed source that was not used since August of 2014.

This is a Severity Level IV violation (Section 6.3).

The cause of the violation was that the licensee's radiation safety officer (RSO) was unaware of the requirement. As corrective action, the licensee committed to provide the required written notification. In addition, the licensee planned to properly transfer the aforementioned gauges to an authorized person. The licensee also committed to generate a plan when a gauge is locked out such that the plan provides the time that the gauge will be locked out/not used as a reminder to take actions to comply with 10 CFR 30.36(d), as applicable. Finally, the licensee planned to add verbiage to its radiation protection program audit form to prevent non-compliance of 10 CFR 30.36(d).

**Docket File Information**

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6. INSPECTION PROCEDURES USED

87124

7. INSPECTION FOCUS AREAS

02.01 through 02.07

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)

03120

2. PRIORITY

5

3. LICENSEE CONTACT

James Tuinstra, RSO

4. TELEPHONE NUMBER

(219) 781-4411

☒ Main Office Inspection

Next Inspection Date: 12/15/2022

☐ Field Office Inspection

☐ Temporary Job Site Inspection

**PROGRAM SCOPE**

This was an unannounced, routine inspection of the licensee's facility. The licensee used fixed gauges to conduct density measurements of corn starch. The Radiation Safety Officer (RSO) reported to the Operations Manager, and the Operations Manager reported to the Chief Executive Officer. The licensee possessed the same 4 gauges since the last inspection (i.e., Ronan Engineering Company Model RLL-1 Series gauge, Texas Nuclear Model 5191 gauge, and two Texas Nuclear Model 5201 gauges) as authorized.

**Performance Observations**

The inspector: (1) observed a licensee radiation survey meter that was calibrated by an authorized person; (2) observed the RSO, who was the only authorized user, conduct a survey meter battery test which passed; (3) used an NRC-owned survey instrument to survey selected surfaces of the Model RLL-1 Series gauge and the maximum result was 2 milliRoentgens per hour (mR/hr); (4) noted that the RSO knew what to do when work is done near fixed gauges including, in part, conducting ambient exposure rate surveys with a survey meter at applicable areas and determining where and for how long the worker(s) would work as a means to keep radiation doses to a minimum; (5) observed the RSO describe his response to a gauge fire based on a scenario posed by the inspector; (6) noted that the licensee implemented corrective actions to prevent the previous violation, including having a backup person that is technically trained and qualified to be the RSO in the event that the current RSO abruptly stops being the RSO, and the licensee understood the proper actions necessary to amend its license to change the name of the new RSO, as such, the previous violation was closed; (7) the inspector used an NRC-owned survey instrument to survey accessible areas near the Model 5191 gauge and the maximum result was less than 1 mR/hr; (8) the inspector used an NRC-owned survey instrument to survey accessible areas near a Model 5201 gauge and the maximum result was less than 1 mR/hr; (9) noted that the RSO was aware of proper lock out and tagging of gauges; (10) noted that the RSO conducted ambient exposure rate surveys of the gauges before an authorized person collected leak test samples; (11) observed that the gauges were secured as required; (12) noted that there were no overexposures, theft or loss of licensed material, incidents involving licensed material, or high radiation levels; (13) reviewed selected sealed source inventory records since the last inspection; (Continued on next Page/Part 3)

*Docket File Information*

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**PROGRAM SCOPE**

(14) reviewed selected shutter check records since the last inspection; (15) reviewed selected leak test records since the last inspection; and (16) reviewed selected radiation protection program annual audit records since the last inspection.

A violation of 10 CFR 30.36(d) was identified as a result of this inspection.