

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1 LICENSEE/LOCATION INSPECTED

Cadillac Castings, Inc.
1500 Fourth Avenue
Cadillac, MI 49601

REPORT NUMBER(S) 2018001

2 NRC/REGIONAL OFFICE

Region III
U. S. Nuclear Regulatory Commission
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

3 DOCKET NUMBER(S)

030-32072

4 LICENSE NUMBER(S)

21-26282-01

5 DATE(S) OF INSPECTION

January 18, 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)

(1) Contrary to Condition 13.A of NRC Materials License 21-26282-01, from 2013 to January 18, 2018, the licensee failed to perform the required, periodic leak test on its Thermo Fisher Model 5201 fixed gauge, exceeding the 3-year interval stipulated in the certificate of registration.

The cause of the violation was oversight of this requirement. As corrective action, the Radiation Safety Officer committed to perform the leak test on the day of the inspection and to create a recurring preventive maintenance work order every 6 months to remind him to perform shutter checks, inventories, leak tests, and audits at the required frequencies.

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	Erik OLSON		2/8/18
NRC INSPECTOR	Luis Nieves Folch		2/2/18
BRANCH CHIEF	Aaron T. McCraw		2/2/18

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(Continued)

(2) Contrary to Title 10 of the Code of Federal Regulations (CFR) 20.1101(c), since 2013 the licensee failed to periodically (at least annually) review the radiation protection program content and implementation. Specifically, the licensee had not reviewed its radiation program since the last inspection.

The cause of the violation was that the RSO was not aware of the requirement. As corrective action, the RSO committed to create a recurring preventive maintenance work order every 6 months to remind him to perform shutter checks, inventories, leak tests, and audits at the required frequencies.

Docket File Information

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6. INSPECTION PROCEDURES USED

87124

7. INSPECTION FOCUS AREAS

03.01-03.08

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S)

03120

2. PRIORITY

5

3. LICENSEE CONTACT

Erick Olson - RSO

4. TELEPHONE NUMBER

(231) 779-9638

☒ Main Office Inspection

Next Inspection Date: January 18, 2023

☐ Field Office Inspection

☐ Temporary Job Site Inspection

PROGRAM SCOPE

This was an unannounced, routine inspection of a iron casting plant located in Cadillac, Michigan. The plant produces a variety of parts primarily for the automotive industry. The licensee possessed one specifically licensed device, a Thermo Fisher Scientific Model 5201. The gauge is used in the melting process to measure the level of raw material in the plant's cupola. There are two authorized users on the license: the RSO and the assistant RSO. The licensee does not perform any installation, maintenance, repair or removal activities relating to the gauge. Instead, the manufacturer is called in for these services.

Performance Observations

The inspector toured the casting facility and observed the gauge in its installed location. Independent confirmatory surveys in the vicinity of the gauge matched readings from the licensee's micro-R meter. The inspector interviewed the RSO and assistant RSO, who were both knowledgeable of radiation protection concepts and procedures. Inventory of the gauge was demonstrated by work permits requiring lockout of the gauge whenever personnel enter the cupola every seven to eight weeks to perform routine maintenance.

Two violations were identified during this inspection, as documented on Part 1 of this form concerning leak tests of the gauge and audits of the radiation protective program. Specifically, the RSO forgot to perform a leak test on the fixed gauge at the required frequency (every three years) since 2013 and had not reviewed the radiation protective program since the last inspection in 2013.

Nieves Folch, Luis

From: Nieves Folch, Luis
Sent: Tuesday, February 06, 2018 8:36 AM
To: 'eolson@cadillacasting.com'
Subject: NRC Inspection Report form 591M
Attachments: image2018-02-06-092617.pdf

Dear Mr. Olson,

This email is to provide you with a copy of the inspection report done for the inspection conducted on January 18, 2018. The results of the inspections was two severity level IV violations as discuss during the exit meeting. You are required to sign the report next to the space that says Licensees Representative, as acknowledgment and receipt of this report and send it back to me at this email address. After that no further actions are required on your part.

In accordance with Title 10 of the Code of Federal Regulations 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Please feel free to contact me if you have any questions, or if there is anything else we at the NRC can do to assist you.

Luis Nieves
Health Physicist
U.S. Nuclear Regulatory Commission
Division of Nuclear Materials Safety
(630) 829-9571