



Materials Inspection Report

1. Licensee/Location Inspected: Gerdau Monroe Mill 3000 East Front Street Monroe, MI 48161 Report Number(s) 2023-001	2. NRC/Regional Office Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. Docket Number(s) 030-14021	4. License Number(s) 21-18673-01	5. Date(s) of Inspection May 10, 2023

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. During this inspection, certain of your activities, as described below and/or attached, were in violation of NRC requirements, and were assessed at Severity Level IV, in accordance with the NRC Enforcement Policy.
 - A. 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, corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy were satisfied.
 (Non-cited violation(s) was/were discussed involving the following requirement(s))
 - B. The following violation(s) is/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 AND DATE
LICENSEE'S REPRESENTATIVE		
NRC INSPECTOR	Ryan Craffey	 <small>Digitally signed by Ryan J. Craffey Date: 2023.05.30 11:14:43 -04'00'</small>
BRANCH CHIEF	Rhex Edwards	 <small>Digitally signed by Rhex A. Edwards Date: 2023.06.01 07:42:02 -05'00'</small>



Materials Inspection Record

1. Licensee Name: Gerdau Monroe Mill	2. Docket Number(s): 030-14021	3. License Number(s) 21-18673-01
---	-----------------------------------	-------------------------------------

4. Report Number(s): 2023-001	5. Date(s) of Inspection: May 10, 2023
----------------------------------	---

6. Inspector(s): Ryan Craffey	7. Program Code(s): 03120	8. Priority: 5	9. Inspection Guidance Used: IP 87124
----------------------------------	------------------------------	-------------------	--

10. Licensee Contact Name(s): Chris Hessler - RSO	11. Licensee E-mail Address: christopher.hessler@gerdau.com	12. Licensee Telephone Number(s): 734-384-6544
--	--	---

13. Inspection Type: <input type="checkbox"/> Initial <input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Announced <input type="checkbox"/> Non-Routine <input type="checkbox"/> Unannounced	14. Locations Inspected: <input type="checkbox"/> Hybrid <input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote	15. Next Inspection Date (MM/DD/YYYY): 05/10/2028 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change
---	--	--

16. Location(s) Inspected List:
Main Office - 3000 East Front Street, Monroe, MI

17. Scope and Observations:
Gerdau Monroe Mill was a specialty steel manufacturing plant in Monroe, Michigan, authorized to use fixed nuclear gauges for caster mold level measurement. The plant produced Special Bar Quality steel billets on-site using a four-strand continuous caster. At the time of the inspection, the licensee had six LB 300 ML source holders (four in use and two spares) containing millicurie quantities of Co-60. These devices were routinely removed from service, relocated into secure storage, and reinstalled during outages every Wednesday by trained caster operators under the supervision of approved users. An authorized service provider operating under reciprocity performed other non-routine maintenance including leak tests, shutter checks, surveys, and other preventative maintenance semiannually, as well as source replacement when necessary (last 2021).

The inspector toured the mill in Monroe. All areas were adequately posted, and all licensed material was adequately secured. Independent radiation surveys on the caster floor were below regulatory limits to members of the public, and independent surveys in the vicinity of the gauges were consistent with radiation profiles in the applicable SDR safety evaluation. All gauges examined were in good condition and adequately labeled. The inspector observed the authorized service provider perform leak testing and other preventative maintenance on the gauges, and observed caster operators re-install the gauges into the molds. The RSO performed area surveys throughout these activities using a calibrated and operable survey instrument. All staff were knowledgeable of radiation protection principles, followed manufacturer instructions and licensee procedures for gauge handling and operation, and used adequate ALARA practices including long-handled tools and shielding. The inspector also reviewed a selection of records including semiannual reports from the service provider containing leak test, inventory, shutter check and area survey results, as well as radiation safety training materials.

The licensee was previously cited in IR 033014021/2018001(DNMS) for two SLIV violations of license conditions for (1) failing to perform area surveys after installing source holders and (2) failing to assure that gauge shutters remained locked closed when relocated outside the molds. The inspector reviewed the licensee's corrective

Materials Inspection Record (Continued)

actions, which appeared adequate: surveys were now performed at re-installation during each outage, and lifting lugs were now kept locked on the sources holders when relocating them to a new shielded job box. These violations are therefore closed. No other violations of NRC requirements were identified as a result of this inspection.

Signature and Date - Branch Chief



Digitally signed by Rhex A. Edwards
Date: 2023.06.01 07:41:38 -05'00'