



Materials Inspection Report

1. Licensee/Location Inspected:

DTE Electric Company
Monroe Power Plant
3500 East Front Street
Monroe, MI 48161

Report Number(s) 2024-001

2. NRC/Regional Office

Region III
U. S. Nuclear Regulatory Commission
2056 Westings Avenue, Suite 400
Naperville, IL 60563-2657

3. Docket Number(s)

030-37798

4. License Number(s)

21-32707-01

5. Date(s) of Inspection

11/15/24; exit 01/07/25

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)

Contrary to Condition 16.A of NRC License No. 21-32707-01, as of November 15, 2024, DTE Electric Company did not test fixed nuclear gauges at the Monroe Power Plant for the proper operation of their on-off mechanisms during 2-year scheduled outages, as described in its application dated March 7, 2019. As corrective action, on January 3 and 7, 2025, the licensee tested the fixed gauges which had not been tested within the last two years for proper operation of the on-off mechanism, and created a new shutter check log to track and ensure the timely completion of these tests in future.

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	Heather Lucier	Heather Lucier Digitally signed by Heather Lucier Date: 2025.01.09 09:56:00 -05'00'
NRC INSPECTOR	Ryan Craffey	 Digitally signed by RYAN CRAFFEY Date: 2025.01.07 16:12:20 -06'00'
BRANCH CHIEF	Rhex Edwards	 Digitally signed by RHEX EDWARDS Date: 2025.01.08 14:30:09 -06'00'



Materials Inspection Record


1. Licensee Name: DTE Electric Company		2. Docket Number(s): 030-37798		3. License Number(s) 21-32707-01	
4. Report Number(s): 2024-001			5. Date(s) of Inspection: November 15, 2024; exit January 7, 2025		
6. Inspector(s): Ryan Craffey		7. Program Code(s): 03120		8. Priority: 5	9. Inspection Guidance Used: IP 87124
10. Licensee Contact Name(s): Heather Lucier - RSO Marcus Sayles - Monroe RSC		11. Licensee E-mail Address: heather.lucier@dteenergy.com marcus.sayles@dteenergy.com		12. Licensee Telephone Number(s): 734-586-5301 734-384-2185	
13. Inspection Type: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Announced <input type="checkbox"/> Non-Routine <input checked="" type="checkbox"/> Unannounced		14. Locations Inspected: <input type="checkbox"/> Main Office <input checked="" type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): 11/15/2029 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change	
16. Location(s) Inspected List: Monroe Power Plant - 3500 East Front Street, Monroe, MI					
17. Scope and Observations: <p>DTE Electric Company was authorized to use fixed nuclear gauges containing byproduct material at its Monroe Power Plant, a four-unit, 3,400-MWt coal generating station in Monroe, Michigan. At the time of the inspection, the licensee had four VEGA SH-F1A gauges and four Endress+Hauser FQG61 gauges, all containing sealed sources of Cs-137. The gauges were used for slurry density and liquid level measurements in emissions control systems at the plant. The licensee's RSO was an HP at Fermi 2, assisted in their oversight of the gauges by a site Radiation Safety Coordinator (RSC). Non-routine maintenance was performed by the manufacturer as needed.</p> <p>The inspector toured the power plant in Monroe. All areas were adequately posted, and all licensed material was adequately secured. All eight gauges were in good condition and adequately labeled, and were installed in environments consistent with the conditions of normal use in the applicable SSDR Registration Certificates (OH-0522-D-0102-B and NR-1302-D-101-B). Independent and confirmatory surveys in the vicinity of each gauge were consistent with radiation profiles in the Certificates. No readings in excess of limits to members of the public were noted in unrestricted areas. The inspector discussed the conduct of physical inventories, noting inventory cards (completed in full since the last inspection) on each of the eight gauges, as well as the implementation of lock-out/tag-out procedures (one Endress+Hauser gauge was currently tagged out at the time of the inspection), and reviewed a selection of leak test results.</p> <p>The inspector also reviewed the conduct of shutter testing and identified a Severity Level IV violation, per NRC Enforcement Policy Section 6.3.d.3, of Condition 16.A of the license for the licensee's failure to conduct shutter testing during 2-year scheduled outages, per its commitments in the renewal application dated March 7, 2019. The root cause of this violation was a lack of full understanding of license commitments; the RSO and RSC were both aware that the licensee had previously committed to confirm proper operation of each shutter whenever it was operated in lieu of periodic checks, as was the case at all other DTE coal plants. However, they were not aware that the previous RSO had also committed in (and only in) the Monroe renewal to also conduct shutter tests during scheduled plant outages.</p>					

Materials Inspection Record (Continued)

As corrective action, on January 3 and 7, 2025, the licensee tested the six fixed gauges which had not been tested within the last two years for proper operation of the on-off mechanism (the other two had been tested on August 6 and November 6, 2024, respectively), and created a new shutter check log that the RSC will use to track and ensure the timely completion of these tests in future. The licensee is also planning to request a license amendment to harmonize shutter check commitments at the Monroe plant with the commitments at other coal plants.

Signature and Date - Branch Chief



 Digitally signed by RHEX EDWARDS
Date: 2025.01.08 14:29:45 -06'00'