



Materials Inspection Report

1. Licensee/Location Inspected: Materials Testing Consultants, Inc. 2105 Bishop Circle Dexter, MI 48130 Report Number(s) 2025-001	2. NRC/Regional Office Region III U. S. Nuclear Regulatory Commission 2056 Westings Avenue, Suite 400 Naperville, IL 60563-2657	
3. Docket Number(s) 030-13918	4. License Number(s) 21-15281-02	5. Date(s) of Inspection 7/16/2025

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	Daniel Fiedorek	DANIEL FIEDOREK <small>Digitally signed by DANIEL FIEDOREK Date: 2025.07.22 08:42:04 -05'00'</small>
BRANCH CHIEF	Rhex Edwards	 <small>Digitally signed by RHEX EDWARDS Date: 2025.07.25 10:44:49 -05'00'</small>



Materials Inspection Record

1. Licensee Name: Materials Testing Consultants, Inc.		2. Docket Number(s): 030-13918		3. License Number(s) 21-15281-02	
4. Report Number(s): 2025-001			5. Date(s) of Inspection: 7/16/2025		
6. Inspector(s): Daniel Fiedorek		7. Program Code(s): 03121	8. Priority: 5	9. Inspection Guidance Used: 87139	
10. Licensee Contact Name(s): Timothy Lautenbach, RSO		11. Licensee E-mail Address: tlautenbach@mtc-test.com		12. Licensee Telephone Number(s): 616-456-5469	
13. Inspection Type: <input type="checkbox"/> Initial <input type="checkbox"/> Routine <input type="checkbox"/> Announced <input checked="" type="checkbox"/> Non-Routine <input checked="" type="checkbox"/> Unannounced		14. Locations Inspected: <input type="checkbox"/> Hybrid <input type="checkbox"/> Main Office <input checked="" type="checkbox"/> Field Office <input checked="" type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): 6/22/2026 <input type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input checked="" type="checkbox"/> No change	
16. Location(s) Inspected List: 2105 Bishop Circle, Dexter, MI 48130 Temporary Job-Site: Intersection of Pauline Blvd and Hutchins Ave, Ann Arbor, MI 48103					
17. Scope and Observations: This was an unannounced non-routine inspection of a portable gauge licensee conducted as a follow up to an inspection in 2024 that resulted in two Severity Level III violations (ML25022A138). The licensee was authorized to possess and use portable gauges at offices in Dexter, Grand Rapids, and Okemos, Michigan as well as at temporary jobsites in NRC jurisdiction. The inspection consisted of a review of licensee corrective actions related to the NOV in 2024 at the licensee's office in Dexter, MI, and at a temporary job-site in Ann Arbor, MI. The licensee lost an Instrotek 3500 series gauge sometime between November 16, 2023, and May 31, 2024. As a result of the gauge being lost, the licensee committed to the following corrective actions: (1) placing a GPS tracking device in each gauge, (2) ending the practice of storing gauges in the bed of the vehicle overnight when secured only by chains, (3) replaced the utilization logs of the Dexter field office with the RSO approved version used at the Okemos and Grand Rapids offices, (4) physical inventories of the gauges every six months in January and July and weekly utilization log checks by the field manager at each office, (5) review of office storage procedures and development of a best practices guide, and (6) setting up video surveillance of the gauge storage area. The inspector was on site on July 16, 2025, to review the corrective actions the licensee committed to. The inspector found that the licensee placed GPS tracking devices in the faceplate of each gauge and was able to monitor the location of the gauges on a tablet in the field manager's office. The GPS would ping to the gauge in real time when it was able to connect to satellites. In the event the GPS ping was ever more than 24 hours old, the field manager would immediately contact the individual assigned to the gauge to verify the location of the gauge and to confirm the user was still in possession of the gauge. At the time of the inspection, all but two trucks at the licensee's office in Dexter were outfitted with Nux boxes in the bed. The use of the Nux box permitted gauge users to store the gauge overnight in the bed of the vehicle. The licensee also demonstrated that the use of the Nux box was compliant with 10 CFR 30.34(i). The inspector reviewed the licensee utilization logs in the Dexter field office and the field manager and RSO confirmed that the utilization logs used in Dexter were the same as the ones used in Okemos and Grand Rapids. The logs identified each individual gauge stored at the Dexter field office, who the gauge was assigned to,					

Materials Inspection Record (Continued)

when the gauge was checked out, the location of the gauge during the week, and when the gauge was returned to storage. Every Monday the field manager verified the utilization logs from the previous week and posted the new one for that week. The inspector reviewed records of the inventory done in January 2025 and found that the licensee identified each gauge, the user it was assigned to, and the location the gauge was at. The RSO and field manager indicated that the RSO conducted the inventory via a video call with each gauge user over the course of a week. During the video call the RSO visually verifies that the user has the gauge and verifies the serial number matches with the gauge assigned to them. At the time of the inspection, the RSO was in the process of completing the July 2025 inventory. On both the January 2025 and the July 2025 inventories the licensee indicated that the Instron 3500 series gauge is still missing. The licensee indicated they intend to continue this practice moving forward until the gauge is found. The inspector verified with the RSO and field office manager that a best practices guide was developed after a review of licensee gauge storage procedures. The guide included discussion on: (1) overnight storage of gauges in the bed of the vehicle is permitted using a Nux box, (2) the use of GPS tracking on each gauge, (3) monthly check-ins between all offices to discuss gauge security, and (4) gauge security in the office and at job-sites to prevent lost gauges in the future. The licensee indicated that the monthly office check-ins were being done weekly every Monday at the time of the inspection. The inspector verified that the licensee had a video surveillance system installed in the Dexter field office. The camera system had a view of the gauge storage cabinet and the surrounding area in the licensee office as well as the exterior of the building. The camera system was able to be viewed in real time from the field manager's computer. The licensee was also in the process of developing a license amendment to change the location in the office of their gauge storage at the time of the inspection. The inspector toured the new proposed location and found that a camera had visual of the door to the gauge storage as well as the room outside of the gauge storage. Inside the proposed storage room, an additional camera was installed that was able to be viewed from the field manager's phone. No issues were identified from reviewing the corrective actions in Dexter.

The inspector also observed a gauge user at a temporary job-site in Ann Arbor, MI. The gauge user had the gauge secured in a Nux box when the inspector arrived. The inspector asked the gauge user about overnight storage of the gauge in the bed of the vehicle and the user indicated it was allowed for him because he had the Nux box to secure the gauge in. The inspector also asked the user about gauge sign out procedures and the user indicated the field manager assigned him a gauge to use for a specific project, and that gauge is then signed out. Each week the user verified on the new utilization log every Monday that the gauge is in use at the job site until it is returned to storage. The inspector also discussed basic gauge security with the user when at temporary jobsites and found the user to be knowledgeable of all requirements to prevent loss or theft of gauges. No issues were identified from the temporary job-site portion of the inspection.

The licensee completed their corrective actions as described and no further examples of the violations were identified by either the licensee or the inspector. Therefore, the violations are considered closed.

No violations of NRC requirements were identified from this inspection.

Signature and Date - Branch Chief



Digitally signed by RHEX EDWARDS
Date: 2025.07.25 10:44:28 -05'00'

From: [Tim Lautenbach](#)
To: [Daniel Fiedorek](#)
Subject: [External_Sender] RE: RE: NRC Inspection of Materials Testing Consultants
Date: Friday, July 25, 2025 11:24:43 AM
Attachments: image001.png

Thanks! Have a great weekend.



Tim Lautenbach, P.E.

Materials Testing Consultants, Inc.

o: 616.456.5469

d: [616.608.1536](tel:616.608.1536)

w: mtc-test.com

From: Daniel Fiedorek <Daniel.Fiedorek@nrc.gov>
Sent: Friday, July 25, 2025 12:23 PM
To: Tim Lautenbach <tlautenbach@mtc-test.com>
Subject: RE: RE: NRC Inspection of Materials Testing Consultants

Correct, there is no need in this scenario to sign the report.

Daniel

From: Tim Lautenbach <tlautenbach@mtc-test.com>
Sent: Friday, July 25, 2025 11:22 AM
To: Daniel Fiedorek <Daniel.Fiedorek@nrc.gov>
Subject: [External_Sender] RE: NRC Inspection of Materials Testing Consultants

Thank you Daniel.

Just to confirm, although there is a signature location for me left open, I don't need to sign unless there are non-conformities and proposed corrections, correct?



Tim Lautenbach, P.E.

Materials Testing Consultants, Inc.

o: 616.456.5469

d: [616.608.1536](tel:616.608.1536)

w: mtc-test.com

From: Daniel Fiedorek <Daniel.Fiedorek@nrc.gov>
Sent: Friday, July 25, 2025 12:10 PM
To: Tim Lautenbach <tlautenbach@mtc-test.com>
Subject: NRC Inspection of Materials Testing Consultants

Hi Timothy,

Please see the attached NRC Form 591M regarding my follow up inspection from the NOV issued earlier this year. As discussed during the exit with your staff in Dexter, no violations were identified, and the previous violations have been closed. No further action beyond keeping a copy of this record is required.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response, if you choose to provide one, will be made available electronically for public inspection in the NRC's Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC's website at <http://www.nrc.gov/reading-rm/adams.html>. To the extent possible, your response should not include any personal privacy, proprietary, or safeguards information so that it can be made publicly available without redaction.

Thanks!
Daniel

Daniel Fiedorek
U.S. NRC | Region III
Division of Radiological Safety and Security (DRSS)
Materials Inspection Branch (MIB)
daniel.fiedorek@nrc.gov | 630-829-9836



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