



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): 2021-002			5. Date(s) of Inspection: July 28, 2021		
6. Inspector(s): Ryan Craffey		7. Program Code(s): 03121	8. Priority: 5	9. Inspection Guidance Used: 87124	
10. Licensee Contact Name(s): Tim Lautenbach, RSO		11. Licensee E-mail Address: tlautenbach@mtc-test.com		12. Licensee Telephone Number(s): 616-608-1536	
13. Inspection Type:		14. Locations Inspected:		15. Next Inspection Date (MM/DD/YYYY):	
<input type="checkbox"/> Initial <input type="checkbox"/> Routine <input type="checkbox"/> Announced <input checked="" type="checkbox"/> Non-Routine <input checked="" type="checkbox"/> Unannounced		<input type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input checked="" type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		No change <input type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input checked="" type="checkbox"/> No change	

16. Scope and Observations:

This was an unannounced field inspection of a constructing testing company authorized to store portable moisture density gauges containing byproduct material at offices in Grand Rapids and Ann Arbor, Michigan, and to use them for measuring the physical properties of materials at temporary job sites in NRC jurisdiction. The scope of this inspection was limited to observations of licensed activities (possession and transport of a Troxler 3411 gauge) incident to other work at the Doug Meijer Medical Innovation Building, under construction at 109 Michigan Street NW in Grand Rapids, Michigan.

After returning to his vehicle from other duties, the inspector noticed the licensee's truck parked in the same lot, with a steel storage container designed for transporting gauges in the back of the bed. The inspector approached the unattended truck and performed independent surveys to confirm that a gauge was present inside the container. Readings were as expected and moreover were below NRC limits to members of the public or DOT limits for transport. The steel storage container was adequately secured.

While the inspector was examining the container, the gauge user returned to the vehicle. He and the inspector discussed radiation safety topics, procedures for safe use and transport of the gauge, and emergency scenarios. The inspector examined the gauge, which appeared to be in good condition. Independent surveys in the vicinity of the device were consistent with the radiation profiles in the applicable SDR safety evaluation. The Type A transport case for the gauge was bolted via existing threads to the steel storage container, which itself was bolted to the truck. The gauge user maintained a set of locks on both containers to ensure that two barriers were present whenever the gauge was not under his control and constant surveillance. The inspector noted that the transport case labels were worn or otherwise difficult to discern since the case was bolted against one side of the steel container. The inspector shared this observation with the licensee's RSO the following day. By that time, the RSO had already ordered replacement labels and intended to affix the replacement UN 3332 labels to the top of the gauge case to improve label visibility.

The inspector also reviewed the gauge user's shipping papers and emergency response information, which were readily available in the cab of his truck.

No violations of NRC requirements were identified as a result of this inspection.