



### Materials Inspection Record

1. Licensee Name: Michigan Department of Transportation		2. Docket Number(s): 030-04813		3. License Number(s) 21-03039-01	
4. Report Number(s): 2021-002			5. Date(s) of Inspection: October 1, 2021		
6. Inspector(s): Ryan Craffey		7. Program Code(s): 04417	8. Priority: 5	9. Inspection Guidance Used: IP 87124	
10. Licensee Contact Name(s): Thomas Killingsworth (RSO) Patrick McMurphy (Brighton)		11. Licensee E-mail Address: killingswortht@michigan.gov mcmurphyp@michigan.gov		12. Licensee Telephone Number(s): 517-331-0314 810-225-2606	
13. Inspection Type:		14. Locations Inspected:		15. Next Inspection Date (MM/DD/YYYY):	
<input type="checkbox"/> Initial <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Announced <input checked="" type="checkbox"/> Non-Routine <input type="checkbox"/> Unannounced		<input type="checkbox"/> Main Office <input checked="" type="checkbox"/> Field Office <input 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 announced field inspection of the Michigan Department of Transportation (MDOT), which was authorized to use or store portable moisture density gauges at 31 field offices and at temporary job sites throughout the State of Michigan. The scope of this inspection was limited to a review of the radiation safety program as implemented at the Brighton Transportation Service Center (TSC) in Brighton, Michigan. During the construction season (March through November), the licensee routinely stored gauges at this TSC for use by one of six authorized staff on local projects. During the off-season, the gauges were returned to the Construction Field Services Division in Lansing, Michigan for maintenance and storage.

The inspector toured the TSC in Brighton. The facility was adequately posted, and all licensed material adequately secured behind at least two independent physical controls. Readings from independent surveys in the vicinity of the gauge storage location were well below limits to members of the public; readings in the vicinity of one gauge present were consistent with radiation profiles in the applicable SSDR safety evaluation.

The inspector was unable to observe the conduct of licensed activities during this inspection, as none involving the gauges or users at this TSC were scheduled or in progress. Instead, the licensee's staff demonstrated the implementation of procedures for safe transport and use of material. From these demonstrations and other discussions, staff demonstrated adequate knowledge of radiation protection principles, licensee procedures, and regulatory requirements.

The inspector also reviewed a selection of records related to the use of gauges at this TSC, including utilization logs, shipping papers, leak test results, periodic area surveys, and operating and emergency procedures.

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