



Materials Inspection Record

1. Licensee Name: NTH Consultants, Ltd.		2. Docket Number(s): 030-08223		3. License Number(s) 21-14894-01	
4. Report Number(s): 2021-001			5. Date(s) of Inspection: June 7, 2021		
6. Inspector(s): Ryan Craffey		7. Program Code(s): 03121	8. Priority: 5	9. Inspection Guidance Used: 87124	
10. Licensee Contact Name(s): Jeff Stamper		11. Licensee E-mail Address: jstamper@nthconsultants.com		12. Licensee Telephone Number(s): 248-662-2670	
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		<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 construction engineering company authorized to use portable gauges containing radioactive material at its office in Livonia, Michigan, and at temporary job sites in NRC jurisdiction. The scope of this inspection was limited to observations of licensed activities (compaction testing using a Troxler 3400 series gauge) at a utilities and road reconstruction repair project on Grand River Road at West North Street in Lansing, Michigan.

While traveling between scheduled inspection activities, the inspector noticed an individual using a portable nuclear gauge at a road reconstruction project in Lansing. The inspector stopped and, prior to announcing his presence, observed the gauge user perform several density tests. The user maintained control and constant surveillance of the gauge at all times. When the user returned to his vehicle, the inspector interviewed him and discussed the safe and secure use and transport of the gauge as well as emergency response measures to take in the event of a damaged gauge. The user was knowledgeable of radiation safety principles and familiar with the licensee's emergency procedures, which were present along with proper shipping papers and current sealed source leak test results for the gauge. The user implemented adequate measures for gauge security and transport using locks, chains, and a bed-mounted job box. The gauge itself was in good condition and its transport case was properly labeled. Independent surveys in the vicinity of the device were consistent with decay-adjusted radiation profiles in the applicable SDDR safety evaluation, and surveys of the vehicle with the gauge in its secured position were well below DOT limits for transportation.

Following these observations, the inspector interviewed the licensee's RSO and discussed additional resources and response measures available to support the licensee's gauge users in the event of an emergency.

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