



Materials Inspection Record

1. Licensee Name: Soils & Structures, Inc.		2. Docket Number(s): 030-33048		3. License Number(s) 21-26469-01	
4. Report Number(s): 2022-001			5. Date(s) of Inspection: January 4, 2022		
6. Inspector(s): Ryan Craffey		7. Program Code(s): 03121	8. Priority: 5	9. Inspection Guidance Used: 87124	
10. Licensee Contact Name(s): Jon Erickson - Director of Field Operations		11. Licensee E-mail Address: jerickson@soilsandstructures.com		12. Licensee Telephone Number(s): 231-760-6821	
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 an engineering and construction testing firm authorized to store portable moisture density gauges containing byproduct material at its main office in Muskegon, Michigan and its satellite offices in Ann Arbor and Traverse City, 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 3400 series gauge) at a construction project on the premises of Mercy Health Muskegon's main campus at 1500 Sherman Boulevard in Muskegon.

Prior to beginning a routine inspection at the hospital, the inspector noticed a portable nuclear gauge case on the tailgate of a Soils & Structures truck parked at a construction site out front. The inspector observed the site for several minutes and, after confirming that the truck was unattended, approached the vehicle. The inspector performed independent surveys around the case and confirmed a gauge was inside. Upon closer inspection of the case, the inspector found that the lid was secured with two locks, and the case itself was secured with two chains locked to different points on the back of the case and the bed of the truck. The authorized user returned shortly thereafter to perform concrete testing. The inspector interviewed the user, who was planning to use the gauge later in the day but at a different job site, and discussed the safe and secure use and transport of portable gauges. The user was knowledgeable of basic radiation safety principles and familiar with the licensee's operating and emergency procedures, which were present along with shipping papers and transportation emergency response information in the cab of the truck. His gauge was in good condition and the case was properly labeled. Additional surveys in the vicinity of the device were consistent with decay-adjusted radiation profiles in the applicable SSDR safety evaluation.

No violations of NRC requirements were identified as a result of this inspection. The inspector conducted a exit meeting with the director of field operations remotely on January 6, 2022.