



## Materials Inspection Report

## 1. Licensee/Location Inspected:

Somat Engineering, Inc.  
6680 Middlebelt Road  
Romulus, MI 48174  
Location Inspected: Job Site in Detroit, MI

Report Number(s) 2022-001

## 2. NRC/Regional Office

Region III  
U. S. Nuclear Regulatory Commission  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

## 3. Docket Number(s)

030-29146

## 4. License Number(s)

21-24685-01

## 5. Date(s) of Inspection

August 30, 2022

## 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	Ryan Craffey	 Digitally signed by Ryan J. Craffey Date: 2022.09.16 15:56:06 -04'00'
BRANCH CHIEF	Michael Kunowski	Michael A. Kunowski  Digitally signed by Michael A. Kunowski Date: 2022.09.19 05:19:41 -05'00'



## Materials Inspection Record

1. Licensee Name: Somat Engineering, Inc.		2. Docket Number(s): 030-29146		3. License Number(s) 21-24685-01	
4. Report Number(s): 2022-001			5. Date(s) of Inspection: August 30, 2022		
6. Inspector(s): Ryan Craffey		7. Program Code(s): 03121		8. Priority: 5	9. Inspection Guidance Used: IP 87139
10. Licensee Contact Name(s): Matthew Richardson - RSO		11. Licensee E-mail Address: mrichardson@somateng.com		12. Licensee Telephone Number(s): 313-304-8845	
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"/> Main Office <input type="checkbox"/> Field Office <input checked="" type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): No Change <input type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input checked="" type="checkbox"/> No change	

## 16. Scope and Observations:

Somat Engineering is a structural, civil, environmental, and construction engineering firm authorized to store portable moisture density gauges at offices in Grand Rapids, Taylor, and Romulus, Michigan (the licensee recently relocated from Taylor to Romulus and has requested removal of the Taylor location), and to use them at temporary job sites in NRC jurisdiction. The scope of this inspection was limited to observations of licensed activities (compaction testing of road and sidewalk construction materials using a Troxler 3400 series gauge, s/n 23955) at a temporary job site along West Jefferson Avenue near the intersection of Zug Island Road in Detroit, Michigan.

While en-route to lunch from other duties, the inspector noticed an individual using a portable gauge at a road construction project. The inspector parked nearby and observed the individual for a time. The individual maintained control and constant surveillance of the gauge at all times. After observing the individual perform several density tests, the inspector met with the individual and discussed radiation safety topics and measures for the safe use and transport of the gauge, including response to various emergency scenarios. The individual was familiar with radiation safety topics and licensee procedures, and his gauge and its transport case were in good condition and properly labeled. Independent surveys in the vicinity of the gauge were consistent with the radiation profiles in the applicable SS&D safety evaluation (NC-646-D-130-S). The inspector also reviewed the gauge user's shipping papers and emergency response instructions, which were readily available in the cab of the vehicle.

During his interview with the first gauge user, a second gauge user arrived on the job site to discuss project matters with the first. The second user also had a gauge (Troxler 3400 series, s/n 27260), which along with its case was in good condition, properly labeled, and adequately blocked and braced. Shipping papers and emergency response instruction were readily available in the cab of the second vehicle as well.

The inspector noted that, in accordance with a Confirmatory Order issued to the licensee on March 3, 2022, both users had bluetooth tracking devices incorporated into their gauge cases, and were proficient with an electronic form developed by the licensee for users to confirm that they properly secured their gauge each time they transported it from one location to another. The users demonstrated the form, its ease of use and its functionality to the inspector. The inspector also discussed the form and audits of its use with the licensee's RSO during an exit meeting the following day.

No violations of NRC requirements were identified as a result of this inspection, and no concerns were noted with respect to the licensee's ongoing implementation of its commitments in the Confirmatory Order.