



## Materials Inspection Report

## 1. Licensee/Location Inspected:

Somat Engineering, Inc.  
26445 Northline Road  
Taylor, MI 48180  
Location Inspected: Job Site in Watervliet, MI

Report Number(s) 2025-002

## 2. NRC/Regional Office

Region III  
U. S. Nuclear Regulatory Commission  
2056 Westings Avenue, Suite 400  
Naperville, IL 60563-2657

## 3. Docket Number(s)

030-29146

## 4. License Number(s)

21-24685-01

## 5. Date(s) of Inspection

06/27/25; exit 07/14/25

## 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.

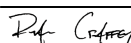

A. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy were satisfied.

(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	(not required)	
NRC INSPECTOR	Ryan Craffey	 Digitally signed by RYAN CRAFFEY Date: 2025.07.25 09:37:21 -05'00'
BRANCH CHIEF	Rhex Edwards	 Digitally signed by RHEX EDWARDS Date: 2025.07.25 09:39:14 -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): 2025-002			5. Date(s) of Inspection: June 27, 2025; exit July 14, 2025		
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): 734-946-4966	
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"/> Hybrid <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): 08/06/2026 <input type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input checked="" type="checkbox"/> No change	
16. Location(s) Inspected List:  Job Site - I-94 west of M-140, Watervliet, MI					
17. Scope and Observations: <p>Somat Engineering is an engineering and consulting firm authorized to store portable moisture density gauges containing byproduct material at two offices in Michigan, and to use them for measuring the physical properties of construction materials at temporary job sites in NRC jurisdiction. The scope of this inspection was limited to observations of licensed activities (compaction testing of backfill for an interstate shoulder expansion using a Troxler 3400 series gauge, s/n 33527) in a construction zone on Interstate 94 near Watervliet, Michigan.</p> <p>While en-route from other inspection activities, the inspector noticed an individual using a portable gauge in a highway median. The individual maintained adequate control of the gauge as the inspector drove by. The inspector turned around, drove back into the construction zone, met with the gauge user and observed them perform additional compaction testing. The individual was familiar with radiation safety concepts and the licensee's operating, maintenance, and emergency procedures, including those implemented as a result of a Confirmatory Order dated March 3, 2022. The gauge and its transport case were in good condition and properly labeled; independent surveys in the vicinity of the it were consistent with the gamma radiation profiles in the applicable SS&amp;D safety evaluation (NC-646-D-130-S). Adequate measures were available for securing and for blocking and bracing the transport case; shipping papers were complete and accurate and kept by the gauge user within arm's reach while driving.</p> <p>The inspector thereafter contacted the licensee's RSO by telephone, who provided current leak test results for the gauge, electronic verification of the gauge user's adequate implementation of gauge security measures prior to departing for the job site, and confirmation that the gauge's internal tracking mechanism was functioning properly.</p> <p>No violations of NRC requirements were identified as a result of this inspection.</p>					
Signature and Date - Branch Chief  Digitally signed by RHEX EDWARDS Date: 2025.07.25 09:15:59 -05'00'					