



Materials Inspection Record

1. Licensee Name: Eng., Inc.		2. Docket Number(s): 030-39265		3. License Number(s) 21-35629-01	
4. Report Number(s): 2022-001			5. Date(s) of Inspection: March 23, 2022		
6. Inspector(s): Ryan Craffey		7. Program Code(s): 03121	8. Priority: 5	9. Inspection Guidance Used: IP 87124	
10. Licensee Contact Name(s): Erik Morris, PE - RSO Linda Cook - Staff Engineer		11. Licensee E-mail Address: morrise@engdot.com cookl@engdot.com		12. Licensee Telephone Number(s): 517-887-1100 (main)	
13. Inspection Type: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Announced <input type="checkbox"/> Non-Routine <input type="checkbox"/> Unannounced		14. Locations Inspected: <input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): 03/22/2023 <input type="checkbox"/> Normal <input type="checkbox"/> Extended <input checked="" type="checkbox"/> Reduced <input type="checkbox"/> No change	

16. Scope and Observations:

Eng. Inc. was a multidisciplinary civil engineering firm authorized by a license issued on May 17, 2021 to store portable moisture density gauges at its facility in Lansing, Michigan, and to use them at temporary job sites in NRC jurisdiction. At the time of the inspection, the licensee possessed two Troxler 3440 plus gauges but had yet to use them. Several employees had completed the required gauge user training, with several more still in progress.

The inspector toured the facility in Lansing. All areas were adequately posted, and both gauges were adequately secured behind at least two independent physical controls that formed tangible barriers against unauthorized removal. The facility matched the description provided in the licensee's revised application dated April 2, 2021. The inspector performed independent and confirmatory surveys of the facility (the licensee also possessed a survey meter); radiation levels were well below regulatory limits to members of the public in unrestricted areas both inside and outside the facility. The gauges and their cases were in like-new condition and were adequately labeled.

The inspector interviewed the licensee's staff and management and discussed their plans and preparations for transporting and performing maintenance on portable gauges, as well as their plans to evaluate occupational exposure. The licensee intends to provide personnel dosimetry for a year to show that doses to workers are expected to be less than 10% of limits, therefore monitoring is not required per 10 CFR 20.1502(a)(1). The inspector reviewed the conditions of the license to confirm their understanding of its conditions, and reviewed the licensee's operating and emergency procedures, noting extensive consideration and instruction for several emergency scenarios involving damaged gauges. Staff and management demonstrated an adequate knowledge of radiation protection principles and regulatory requirements, and the program appeared well-prepared to provide reasonable assurance of the safe and secure use of portable gauges.

The inspector also reviewed physical inventories and sealed source leak tests completed to date, as well as shipping papers, utilization log templates, gauge user training records and tracking mechanisms. The inspector confirmed via transfer documentation that the licensee first received licensed material on June 24, 2021.

No violations of NRC requirements were identified as a result of this inspection. Since the licensee has yet to begin principal activities, a re-initial inspection is required within one year in accordance with IMC 2800. The re-initial inspection should prioritize the conduct of licensed activities in the field. The licensee intends to begin using gauges in mid-May 2022; therefore, the next inspector should contact the licensee and arrange for a re-initial inspection between then and early fall 2022.