



Materials Inspection Record

1. Licensee Name: Koehler Engineering and Land Surveying		2. Docket Number(s): 030-34590		3. License Number(s) 24-32042-01	
4. Report Number(s): 2022001			5. Date(s) of Inspection: May 16, 2022		
6. Inspector(s): Jason Draper		7. Program Code(s): 03121	8. Priority: 5	9. Inspection Guidance Used: IP 87139	
10. Licensee Contact Name(s): Dan Klapproth, PE, RSO		11. Licensee E-mail Address: DKlapproth@KoehlerEngineering.com		12. Licensee Telephone Number(s): 573-335-3026	
13. Inspection Type:		14. Locations Inspected:		15. Next Inspection Date (MM/DD/YYYY):	
<input type="checkbox"/> Initial <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Announced <input type="checkbox"/> Non-Routine <input checked="" type="checkbox"/> Unannounced		<input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input checked="" type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		05/16/2027 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change	

16. Scope and Observations:

This was an unannounced routine inspection of a private engineering consulting company authorized to possess and use portable moisture density gauges at its facility in Cape Girardeau, MO, and at temporary job sites anywhere in NRC jurisdiction. At the time of the inspection, the licensee possessed three Humboldt Model 5001 and four Troxler Model 3400 Series gauges containing Cs-137 and Am-241 sources. The licensee used these gauges year-round for construction projects located primarily in southeast Missouri. The licensee employed eight qualified gauge users and used a licensed gauge service provider for leak tests and gauge maintenance beyond routine cleaning and lubrication.

During the inspection of the licensee's main office, the inspector toured the facility to ensure the gauges were secured appropriately. The inspector also performed independent surveys of the storage area and verified the presence of appropriate postings. The inspector observed a gauge user check out a gauge and prepare it for transport. The inspector also interviewed the RSO and the gauge user with regard to gauge use, transportation of gauges, maintenance of gauges, and radiation safety principles. The inspector also reviewed a selection of records including leak test records, semi-annual inventories, annual radiation safety program reviews, and the licensee's documentation demonstrating that unmonitored individuals were not likely to receive a radiation dose in excess of the limits in 10 CFR 20.1502(a).

During the temporary job site inspection at County Road 618 and Baldwin Road (adjacent to the licensee's main office), the inspector observed the gauge user transport a gauge and perform density measurements. The inspector verified the gauge user maintained constant control of the gauge, ensured the area was clear of members of the public and ensured the gauge was not subject to temporary job site hazards that could damage the gauge. The inspector interviewed the gauge user with respect to control of the gauge and emergency response procedures and found him to be knowledgeable of the licensee's procedures.

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