



Materials Inspection Report

1. Licensee/Location Inspected: Missouri Department of Transportation 105 West Capital Ave. P. O. Box 270 Jefferson City, MO 65102 Report Number(s) 2025001	2. NRC/Regional Office Region III U. S. Nuclear Regulatory Commission 2056 Westings Avenue, Suite 400 Naperville, IL 60563-2657	
3. Docket Number(s) 030-18363	4. License Number(s) 24-20415-01	5. Date(s) of Inspection July 28-29, 2025

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	D.A. Piskura Senior Health Physicist	DEBORAH PISKURA <small>Digitally signed by DEBORAH PISKURA Date: 2025.08.15 11:17:31 -05'00'</small>
BRANCH CHIEF	Rhex A. Edwards, Chief, MIB	 <small>Digitally signed by RHEX EDWARDS Date: 2025.08.18 07:00:56 -05'00'</small>



Materials Inspection Record

1. Licensee Name: Missouri Department of Transportation		2. Docket Number(s): 030-18363		3. License Number(s) 24-20415-01	
4. Report Number(s): 2025-001			5. Date(s) of Inspection: July 28-29, 2025		
6. Inspector(s): D.A. Piskura, Senior Health Physicist		7. Program Code(s): 04417	8. Priority: 5	9. Inspection Guidance Used: 87139	
10. Licensee Contact Name(s): Lydia D. Brownell, RSO		11. Licensee E-mail Address: lydia.brownell@modot.mo.gov		12. Licensee Telephone Number(s): 573-526-4328	

13. Inspection Type: <input type="checkbox"/> Initial		14. Locations Inspected: <input type="checkbox"/> Hybrid		15. Next Inspection Date (MM/DD/YYYY):	
<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Announced	<input type="checkbox"/> Main Office	<input checked="" type="checkbox"/> Field Office	2/15/2029	
<input type="checkbox"/> Non-Routine	<input checked="" type="checkbox"/> Unannounced	<input type="checkbox"/> Temporary Job Site	<input type="checkbox"/> Remote	<input type="checkbox"/> Normal	<input type="checkbox"/> Extended
				<input type="checkbox"/> Reduced	<input checked="" type="checkbox"/> No change

16. Location(s) Inspected List:

- (1) Maryville Project Office, 28320 250th St., Maryville, MO
- (2) Higginsville Project Office, 3000 Commercial Dr., Higginsville, MO
- (3) Marshall Project Office, 1593 W. Arrow, Marshall, MO

17. Scope and Observations:

This routine inspection effort was conducted as part of a regional initiative for a large multi-site licensee and limited to the review of licensed activities at three field offices referenced in Item 16. above. Additional field offices will be scheduled for future inspections.

The licensee is a large multi-site transportation service agency for the State of Missouri with 30 locations of use. The licensee was authorized to possess numerous portable moisture/density gauges for measuring properties of construction materials. Each field office, inspected during this effort, possessed one Troxler Model 3400 series gauge; the gauges were used occasionally for making confirmatory measurements for road construction projects. Each field office designated and approved specific individuals who received training as authorized gauge users. The licensee did not perform any service or maintenance activities on its gauges; these services were performed by the device manufacturer. Each gauge unit was stored within a dedicated, multi-locked closet or enclosure. Each unit was stored in its transport container, with locks and chains securing the shipping case; locks also secured the cesium-137 source rod. The gauge user was required to complete the utilization log/sign-out notebook which would inform the field office of the exact job site where the respective device would be used. The licensee specifically instructed the gauge users not to leave the device unattended while at a job site. Gauges were also required to be returned to the field office upon completion of the shift.

During this inspection, the inspector toured the gauge storage areas at each field office, performed radiation surveys around the devices, reviewed select records, and interviewed licensee personnel. At the time of these field office inspections, the respective devices were not in use, therefore, no field inspection was performed.

The inspector performed direct radiation measurements using a RadEyeG (SN 30652, last calibration 5/22/2025) in and around the licensee's gauge storage areas, at each of the field offices listed above, which indicated similar results as noted in the licensee's survey records. Radiation levels in the unrestricted areas were indistinguishable


Materials Inspection Record (Continued)

from background. The inspector concluded that these radiation levels within each facility complied with Part 20 limits.

No violations of NRC requirements were identified during the scope of this inspection.

Signature and Date - Branch Chief

A handwritten signature in black ink, appearing to be 'RHEX EDWARDS', written over a horizontal line.

 Digitally signed by RHEX EDWARDS
Date: 2025.08.18 07:00:29 -05'00'

From: Deborah Piskura

Sent: Monday, August 18, 2025 4:21 PM

To: lydia.brownell@modot.mo.gov

Subject: NRC Inspection during the week of July 28, 2025

Dear Lydia,

Attached to this email is your inspection report (NRC Form 591) for my inspection conducted on July 28-29, 2025, at the MODOT field offices in Maryville, Marshall and Higginsville. Please maintain this record in your NRC files. No action or response to this form is required by you.

In accordance with Title 10 of the Code of Federal Regulations 2.390 of the NRC's "Rules of Practice," a copy of this email will be available electronically for public inspection in the NRC Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Please feel free to contact me if you have any questions regarding this inspection. I can be reached at 630-829-9867.

Best Regards,

Debbie

Deborah A. Piskura
Senior Health Physicist
Materials Inspection Branch
US NRC
Region III
2056 Westings Avenue
Naperville, IL 60563
(630) 829-9867
Deborah.Piskura@nrc.gov