



Materials Inspection Report

1. Licensee/Location Inspected: Michigan Department of Transportation Construction Field Services Division 8885 Ricks Road, Lansing, MI Locations: Crystal Falls TSC & job site in Ishpeming Report Number(s) 2024-002	2. NRC/Regional Office Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
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3. Docket Number(s) 030-04813	4. License Number(s) 21-03039-01	5. Date(s) of Inspection 5/29 & 5/31/24; Exit 6/6/24
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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	 <small>Digitally signed by RYAN CRAFFEY Date: 2024.06.27 08:44:05 -05'00'</small>
BRANCH CHIEF	Rhex Edwards	 <small>Digitally signed by RHEX EDWARDS Date: 2024.06.26 14:06:56 -05'00'</small>



Materials Inspection Record

1. Licensee Name: Michigan Department of Transportation		2. Docket Number(s): 030-04813		3. License Number(s) 21-03039-01	
4. Report Number(s): 2024-002			5. Date(s) of Inspection: May 29 and 31, 2024; exit June 6, 2024		
6. Inspector(s): Ryan Craffey, Daniel Fiedorek		7. Program Code(s): 04417	8. Priority: 5	9. Inspection Guidance Used: IP 87121	
10. Licensee Contact Name(s): Thomas Killingsworth - RSO		11. Licensee E-mail Address: killingswortht@michigan.gov		12. Licensee Telephone Number(s): 517-331-0314	
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 checked="" type="checkbox"/> Field Office <input checked="" type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): 03/06/2029 <input type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input checked="" type="checkbox"/> No change	
16. Location(s) Inspected List: Field Office: Crystal Falls TSC, 120 Tobin-Alpha Road, Crystal Falls, MI Job Site: US-41 at Lakeshore Drive, Ishpeming, MI					
17. Scope and Observations: The Michigan Department of Transportation was authorized to use and store portable moisture density gauges at its main office in Lansing and at field offices and temporary job sites throughout the State of Michigan. The scope of this inspection was limited to a review of the radiation protection program as implemented at the Crystal Falls Transportation Service Center (TSC) and observations of licensed activities (measuring physical properties of construction materials) at a road construction project in Ishpeming. On May 29, while returning from another inspection, the inspectors noticed workers performing backfill compaction on a road construction project in Ishpeming (converting the intersection of US-41 and Lakeshore Drive into a roundabout) with licensee vehicles parked on-site. The inspectors parked at a nearby business and observed the work in progress. Shortly afterwards, a licensee employee exited their vehicle and brought out an InstroTek 3500 series gauge to perform compaction testing on the backfill. The individual maintained control and constant surveillance of the device at all times during the testing and used the gauge safely and consistent with good ALARA practices. Upon completing testing, the individual promptly returned the gauge to their vehicle. The inspectors then met with the gauge user and confirmed that the individual had appropriately secured the gauge using two barriers and adequate blocking and bracing. The gauge (s/n 4299) was in excellent condition; independent surveys of it were consistent with radiation profiles in the applicable SSDR safety evaluation (NC-1241-D-101-S). The custom Type A transport case was likewise in good condition and adequately marked and labeled. Shipping papers, emergency response information, and a copy of the licensee's O&E procedures were readily available in the cab of the vehicle. The inspectors discussed radiation safety topics and response to emergency scenarios with the gauge user, who was sufficiently knowledgeable of both. On May 31, the inspectors visited the Crystal Falls TSC and toured the gauge storage area. The facility was adequately posted, and the single gauge present (another InstroTek 3500, s/n 4632) was adequately secured behind four barriers and in excellent condition. Independent surveys of the facility found no exposures in unrestricted areas					

Materials Inspection Record (Continued)


above limits to members of the public, and surveys of the gauge were consistent with the above mentioned radiation profiles. Utilization logs, shipping papers, emergency response information, and a copy of the licensee's O&E procedures were available for this gauge, as was emergency response equipment including a steel transport drum and additional shielding.

Following the on-site inspection, the inspectors confirmed through records provided by the licensee's staff in Lansing that both gauges had been leak tested as required.

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

Signature and Date - Branch Chief



 Digitally signed by RHEX EDWARDS
Date: 2024.06.26 14:05:35 -05'00'