



Materials Inspection Report

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| 1. Licensee/Location Inspected: Hennessey Engineers, Inc. 13500 Reeck Road Southgate, MI 48195 Location inspected: Job site in Taylor, MI Report Number(s) 2024-001 | 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) 030-31333 | 4. License Number(s) 21-26066-01 | 5. Date(s) of Inspection 08/05/24; exit 08/15/24 |
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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: 2024.08.16 14:20:48 -05'00'</small> |
| BRANCH CHIEF | Rhex Edwards | <small>Digitally signed by RHEX EDWARDS Date: 2024.08.23 16:00:48 -05'00'</small> |



Materials Inspection Record

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| 1. Licensee Name: Hennessey Engineers, Inc. | | 2. Docket Number(s): 030-31333 | | 3. License Number(s) 21-26066-01 | |
| 4. Report Number(s): 2024-001 | | | 5. Date(s) of Inspection: August 5, 2024; exit August 15, 2024 | | |
| 6. Inspector(s): Ryan Craffey | | 7. Program Code(s): 03121 | 8. Priority: 5 | 9. Inspection Guidance Used: IP 87139 | |
| 10. Licensee Contact Name(s): Kenny Erving - RSO | | 11. Licensee E-mail Address: kcerving@hengineers.com | | 12. Licensee Telephone Number(s): 313-282-3125 | |

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| 13. Inspection Type: | | 14. Locations Inspected: | | 15. Next Inspection Date (MM/DD/YYYY): | |
| <input type="checkbox"/> Initial <input type="checkbox"/> Routine <input type="checkbox"/> Announced <input checked="" type="checkbox"/> Non-Routine <input checked="" type="checkbox"/> Unannounced | | <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 | | 05/18/2026 <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 - Beech Daly Road at Wohlfeil Street, Taylor, MI

17. Scope and Observations:

Hennessey Engineers is an construction engineering and consulting firm authorized to store portable moisture density gauges containing byproduct material at its office in Southgate, 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 (measuring the physical properties of asphalt) at a road reconstruction project in Taylor, Michigan.

While en-route to other duties, the inspector noticed one of the licensee's vehicles parked along a stretch of Beech Daly Road south of Ecorse that was undergoing repaving. The inspector parked and observed the work in progress. Shortly afterwards, a licensee employee exited the vehicle and brought out a Troxler 3440 Plus gauge to perform compaction testing on the asphalt. The individual maintained control and constant surveillance of the device at all times while testing and used the gauge safely and consistent with good ALARA practices. Upon completing this testing, the individual promptly returned the gauge to the vehicle.

The inspector then met with the gauge user and confirmed that they had appropriately secured the gauge using two barriers and adequate blocking and bracing. The gauge (s/n 78265) was in good condition; independent surveys of it were consistent with radiation profiles in the applicable SDR safety evaluation (NC-646-D-130-S). Its transport case was likewise in good condition and adequately marked and labeled. Shipping papers, emergency response information, a copy of the licensee's O&E procedures, and current leak tests were readily available in the cab of the vehicle. The gauge user was knowledgeable of licensee procedures and wore personnel dosimetry as assigned.

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

Signature and Date - Branch Chief



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Date: 2024.08.23 16:00:26 -05'00'