

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Thermal Engineering International
Utility Products Division
2702 W. 9th Street
Joplin, MO 64801

REPORT NUMBER(S) 2022001

2. NRC/REGIONAL OFFICE

Region III
U. S. Nuclear Regulatory Commission
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

3. DOCKET NUMBER(S)

030-17798

4. LICENSE NUMBER(S)

24-19500-01

5. DATE(S) OF INSPECTION

March 22, 2022

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. 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, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, to exercise discretion, were satisfied.

_____ Non-cited violation(s) were discussed involving the following requirement(s):

4. During this inspection, certain of your activities, as described below and/or attached, were in violation of NRC requirements and 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	DATE
LICENSEE'S REPRESENTATIVE			
NRC INSPECTOR	Luis Nieves Folch	Luis A. Nieves Folch Digitally signed by Luis A. Nieves Folch Date: 2022.04.01 10:34:52 -05'00'	
BRANCH CHIEF	Michael Kunowski	Michael A. Kunowski Digitally signed by Michael A. Kunowski Date: 2022.04.05 06:16:22 -05'00'	



Materials Inspection Record

1. Licensee Name: Thermal Engineering International		2. Docket Number(s): 030-17798		3. License Number(s) 24-19500-01	
4. Report Number(s): 2022001			5. Date(s) of Inspection: March 22, 2022		
6. Inspector(s): Luis Nieves		7. Program Code(s): 03320	8. Priority: 1	9. Inspection Guidance Used: 87121	
10. Licensee Contact Name(s): Nick Darnell, Radiation Safety Officer		11. Licensee E-mail Address: NDarnell@thermalengint.com		12. Licensee Telephone Number(s): 417-291-7867	
13. Inspection Type: <input type="checkbox"/> Initial		14. Locations Inspected:		15. Next Inspection Date (MM/DD/YYYY):	
<input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Announced		<input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Field Office		March 22, 2023 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended	
<input type="checkbox"/> Non-Routine <input type="checkbox"/> Unannounced		<input type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		<input type="checkbox"/> Reduced <input type="checkbox"/> No change	

16. Scope and Observations:

This was an announced, routine inspection of a non-destructive testing company authorized to use radioactive material for industrial radiography at their location in Joplin, Missouri, and at temporary job sites throughout NRC jurisdiction. The licensee stored radiographic exposure devices at its main location. The licensee employed one radiographer and two assistants but was in the process of training three more individuals.

PERFORMANCE OBSERVATIONS

The inspector toured the licensee facilities to evaluate the licensee's measures for materials security, hazard communication, and exposure control. The inspector reviewed a selection of the licensee's program documentation, including utilization logs, quarterly equipment maintenance and inventory records, sealed source and DU shield leak tests, radiographer audits and refresher training for all qualified personnel, and personnel dosimetry. At the time of the inspection, the NRC inspector did not have the opportunity to observe the performance of industrial radiography operation. The licensee demonstrated radiographic operations, performing camera checks, filling out the utilization logs, filling out the placards for the camera, equipment maintenance, survey meter use, barrier control, and emergency response. The inspector interviewed the licensee's radiation safety officer/radiographer to discuss a variety of radiation safety topics, including the use of shielding during radiographic operations, emergency response measures, and source exchanges. The inspector further examined a selection of in-use pocket dosimeters, alarming rate meters, and survey instruments, and found all to be calibrated, operable, and properly used.

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

From: [Nieves Folch, Luis](#)
To: [Darnell, Nick](#)
Subject: Thermal Engineering NRC 591 clear report
Date: Tuesday, April 5, 2022 10:37:00 AM
Attachments: [Thermal Engineering 591 sign1mk.pdf](#)

Dear Mr. Darnell

Attach is the clear 591 report for the inspection conducted on March 22, 2022. At this point there is no further actions on your part.

In accordance with Title 10 of the Code of Federal Regulations 2.390 of the NRC's "Rules of Practice," a copy of this message will be available electronically for public inspection in the NRC's Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC's website at <http://www.nrc.gov/reading-rm/adams.html>. Please feel free to contact me if you have any questions regarding this correspondence.

Thank you,

Luis Nieves
Health Physicist
U.S. Nuclear Regulatory Commission
Division of Nuclear Materials Safety
Office: (630) 829-9571
Fax: (630) 515-1259