

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  Thermal Engineering International 2702 West 9th Street Joplin, MO 64801  REPORT NUMBER(S) 2014-001		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  December 18, 2014	

**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:

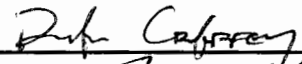
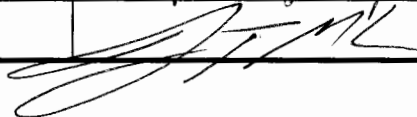
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is 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	Ryan Craffey		12/23/14
BRANCH CHIEF	Aaron McCraw		12/23/14

**Docket File Information**

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6. INSPECTION PROCEDURES USED  87121, 87137	7. INSPECTION FOCUS AREAS  All
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**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  03320	2. PRIORITY  1	3. LICENSEE CONTACT  Nick Darnell - RSO	4. TELEPHONE NUMBER  (417) 782-5080
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Main Office Inspection                      Next Inspection Date: December 2015

Field Office Inspection \_\_\_\_\_

Temporary Job Site Inspection \_\_\_\_\_

**PROGRAM SCOPE**

This was a routine inspection of a heavy equipment manufacturer authorized to use radioactive material for industrial radiography at a permanent radiographic installation (PRI) within its facility in Joplin, Missouri, and at temporary job sites in NRC jurisdiction. At the time of the inspection, two radiographers (one of them the RSO) and one assistant worked at the Joplin facility, conducting weld inspections of heat exchangers, feedwater heaters, condensers and other heat transfer equipment manufactured on-site. The licensee used its authorization for temporary job sites to conduct weld inspections on-site outside of its PRI; the licensee had not transported a camera off-site since the last inspection.

**PERFORMANCE OBSERVATIONS**

The inspector toured the licensee's PRI and camera storage room to evaluate the licensee's measures for hazard communication and exposure control. The inspector was unable to observe the conduct of radiographic operations, as the licensee had already concluded these operations for the year. Instead, the licensee's staff conducted demonstrations of radiographic operations, including equipment checks, PRI operation, barrier setup for temporary job sites, survey meter use, and emergency response. The inspector found the licensee's staff to be knowledgeable of radiation protection principles and licensee procedures, and noted that a selection of their dosimetry and survey instruments to be calibrated and operable. The inspector conducted independent surveys of the facility and found that exposures were below regulatory limits in areas accessible by members of the public.

The inspector also reviewed a selection of available safety-related records, including radiographer audits, utilization and pocket dosimeter logs, quarterly equipment inspections, leak test results, program audits and dosimetry, which indicated a maximum annual exposure of 24 millirem to date in 2014.

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