



**SAFETY INSPECTION REPORT  
AND COMPLIANCE INSPECTION**

1. LICENSEE Thermal Engineering International REPORT NUMBER(S) 2008-001		2. NRC/REGIONAL OFFICE Region III 2443 Warrenville Road, Suite 210 Lisle, IL 60532	
3. DOCKET NUMBER(S) 030-17798	4. LICENSE NUMBER(S) 24-19500-01	5. DATE(S) OF INSPECTION April 8, 2008	
6. INSPECTION PROCEDURES USED 87121	7. INSPECTION FOCUS AREAS 03.01 – 03.07		

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S) 03320	2. PRIORITY 1	3. LICENSEE CONTACT Nick Darnell, RSO	4. TELEPHONE NUMBER 417-782-5080 x256
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Main Office Inspection      Next Inspection Date: April 2009

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

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

**PROGRAM SCOPE**

The licensee, a manufacturing company that produced pressure vessels up to 50 feet long, performed radiography to evaluate the welds on the vessels. While authorized to perform radiographic operations at temporary job sites throughout NRC-regulated areas, the licensee performed radiography only on their premises in Joplin, Missouri, using two radiography cameras as authorized on the license. All radiographic operations were performed as temporary job sites, and large concrete blocks were used to provide shielding. The radiography cameras were used approximately daily at the facility by two radiographers and four assistant radiographers.

**Performance Observations**

The inspector was unable to observe any radiographic exposures during the inspection because none were performed at that time. Licensee personnel described radiographic operations, including site preparation, supervision, and release, and demonstrated checks of safety equipment, including survey meters and ratemeters. The inspector performed independent and confirmatory radiation measurements which indicated results similar to licensee survey records and instrumentation and appropriate for licensee postings. Interviews with licensee staff indicated an adequate knowledge of radiation safety concepts and procedures.

The maximum radiation exposure to licensee radiographic staff in 2007 was 109 mrem.