

### SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

<b>1. LICENSEE/LOCATION INSPECTED:</b> Quantum Technical Services, LLC 16834 Titan Drive Houston, TX 77058 Location Inspected: Job Site in Detroit, MI REPORT NUMBER(S) 2016-001	<b>2. NRC/REGIONAL OFFICE</b>  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
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<b>3. DOCKET NUMBER(S)</b> 150-00042	<b>4. LICENSE NUMBER(S)</b> TX-L06406	<b>5. DATE(S) OF INSPECTION</b> April 12, 2016
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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. 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	<i>Ryan Craffey</i>	4/22/16
BRANCH CHIEF	Aaron McCraw	<i>[Signature]</i>	4/28/16

**Docket File Information**  
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6. INSPECTION PROCEDURES USED  87124	7. INSPECTION FOCUS AREAS  FE 1-6
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**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  03110	2. PRIORITY  3	3. LICENSEE CONTACT  Paul Chila - Engineering Consultant	4. TELEPHONE NUMBER  (281) 461-7200
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Main Office Inspection                      Next Inspection Date:                      TBD  
 Field Office Inspection  
 Temporary Job Site Inspection    1300 Fort Street, Detroit, MI

**PROGRAM SCOPE**

This was an announced field inspection of a industrial services company authorized by its State of Texas license to perform industrial process tracer studies, level and density measurements, calibrations and other activities at three facilities and at temporary job sites in Texas jurisdiction. The licensee conducted these activities at temporary job sites in NRC jurisdiction under a reciprocity request filed in February 2016 for the remainder of the calendar year. At the time of the inspection, the licensee was performing density profile measurements of mechanical draft cooling tower fill for Marathon Petroleum at its refinery in Detroit, Michigan. The licensee transported two Cs-137 sealed sources (approximately 400 mCi in total) to the site for use in tower scanning source holders.

**PERFORMANCE OBSERVATIONS**

The inspector met the licensee's two-man crew off-site to evaluate their implementation of measures for source security, hazardous materials transportation and exposure control. The licensee secured both sources behind at least two independent physical controls that formed tangible barriers against unauthorized removal. The inspector conducted confirmatory surveys with licensee instrumentation of the shielded source transport container, as well as independent surveys in and around the licensee's vehicle. With the sources in storage, the inspector found no readings in excess of DOT limits for transportation, nor any readings to suggest a risk of exposures to any members of the public in excess of regulatory limits. The inspector also found that the licensee's instrumentation was calibrated, operable, and appropriate for the work. The licensee's crew possessed adequate dosimetry, and demonstrated the implementation of licensee procedures for transportation of radioactive material, job site setup including determination of restricted area boundaries, source handling, conduct of operations, and response to a variety of emergency situations. Through these discussions the licensee's crew demonstrated an adequate understanding of radiation protection principles, licensee procedures, and applicable regulatory requirements. The inspector also reviewed a selection of available records, including shipping papers, sealed source leak tests, training certificates, operating and emergency procedures, as well as a copy of the company's current State of Texas license, and the NRC From 241 submitted for the project, which the inspector confirmed was complete and accurate in all respects.

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