



## Materials Inspection Report

<b>1. Licensee/Location Inspected:</b>  L.S. Engineering, Inc. 1345 Monroe Avenue Grand Rapids, MI 49505  Report Number(s) 2022-001	<b>2. NRC/Regional Office</b>  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
<b>3. Docket Number(s)</b> 030-35620	<b>4. License Number(s)</b> 21-32296-01	<b>5. Date(s) of Inspection</b> 09/29/22 - 12/08/22

**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 J. Craffey Date: 2022.12.21 10:25:04 -05'00'</small>
BRANCH CHIEF	Rhex Edwards	 <small>Digitally signed by Rhex A. Edwards Date: 2022.12.23 07:57:14 -06'00'</small>




### Materials Inspection Record

<b>1. Licensee Name:</b> L.S. Engineering, Inc.		<b>2. Docket Number(s):</b> 030-35620		<b>3. License Number(s)</b> 21-32296-01	
<b>4. Report Number(s):</b> 2022-001			<b>5. Date(s) of Inspection:</b> September 29, 2022 and December 8, 2022		
<b>6. Inspector(s):</b> Ryan Craffey		<b>7. Program Code(s):</b> 03121	<b>8. Priority:</b> 5	<b>9. Inspection Guidance Used:</b> IP 87139	
<b>10. Licensee Contact Name(s):</b> Tim Prince - RSO		<b>11. Licensee E-mail Address:</b> princet@lsengineering.com		<b>12. Licensee Telephone Number(s):</b> 616-643-0810	
<b>13. Inspection Type:</b> <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Announced <input type="checkbox"/> Non-Routine <input checked="" type="checkbox"/> Unannounced		<b>14. Locations Inspected:</b> <input checked="" type="checkbox"/> Hybrid <input checked="" type="checkbox"/> Field Office <input type="checkbox"/> Main Office <input type="checkbox"/> Remote <input type="checkbox"/> Temporary Job Site		<b>15. Next Inspection Date (MM/DD/YYYY):</b> 09/29/2027 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change	
<b>16. Location(s) Inspected List:</b>  Field Office - 1345 Monroe Avenue, Grand Rapids, MI					
<b>17. Scope and Observations:</b> L.S. Engineering was a professional engineering firm authorized to possess and use portable gauges containing byproduct material to measure the physical properties of material at its field office in Grand Rapids, Michigan, and at temporary job sites in NRC jurisdiction. At the time of the inspection, the licensee had three Troxler gauges and seven individuals authorized to use them, though only four were active. The RSO was based in Grand Rapids.  The inspector toured the field office in Grand Rapids. The gauge storage area was adequately posted, and all gauges were adequately secured behind at least two barriers. Independent surveys in the vicinity of this area were below regulatory limits to members of the public. The inspector examined one of the licensee's gauges in storage (the other two were out in the field); the gauge and its case were in good condition and adequately labeled. Additional surveys in the vicinity of the device were consistent with radiation profiles in the applicable SSSDR safety evaluation. The inspector interviewed the RSO to discuss emergency response (the licensee maintained access to a survey meter via another gauge licensee in Grand Rapids), and reviewed a selection of records, including leak test results, physical inventories, personnel dosimetry reports, and hazmat training. The inspector thereafter attempted to visit a local job site; however, the gauge user had left the site by the time the inspector arrived.  During a period of in-office review, the licensee provided pictures of its other gauges, confirming that they too were in good condition. The inspector attempted on several occasions to interview an authorized user and/or observe licensed activities in-person; however, due to weather and licensee availability, these attempts were unsuccessful. Instead, on December 8, the inspector met with the RSO and an authorized user via video teleconference to discuss the use and transport of gauges. The inspector observed demonstrations of gauge transport using one of the licensee's gauges, and confirmed that the licensee maintained adequate measures for safe and secure transport of gauges. The inspector discussed procedures for gauge accountability, use, and maintenance with the authorized user, who was knowledgeable of radiation protection principles and licensee procedures.  No violations of NRC requirements were identified as a result of this inspection.					

**Materials Inspection Record (Continued)**

Signature and Date - Branch Chief

A handwritten signature in black ink, appearing to be 'R. Edwards', with a long horizontal line extending to the right.

 Digitally signed by Rhex A. Edwards  
Date: 2022.12.23 07:56:47 -06'00'