

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  Nordlund & Associates, Inc. d/b/a West Michigan Testing, Inc. 815 E. Ludington Avenue, Ludington, Michigan  REPORT NUMBER(S) 2013-002		2. NRC/REGIONAL OFFICE  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S)  03037434	4. LICENSE NUMBER(S)  21-26281-02	5. DATE(S) OF INSPECTION  9/3/13 with continued in-office review through 9/19/13	

**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	Robert G. Gattone, Jr.	<i>Robert G. Gattone, Jr.</i>	9/19/13
BRANCH CHIEF	Aaron T. McCraw	<i>[Signature]</i>	9/19/13

**Docket File Information**

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6. INSPECTION PROCEDURES USED  87124	7. INSPECTION FOCUS AREAS  03.01, 03.02, 03.06, and 03.07
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**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  03121	2. PRIORITY  5	3. LICENSEE CONTACT  James Dillingham, RSO	4. TELEPHONE NUMBER  (231) 690-4881
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Main Office Inspection                      Next Inspection Date: 09/03/2018  
 Field Office Inspection  
 Temporary Job Site Inspection

**PROGRAM SCOPE**

This was a 6-month post escalated enforcement follow-up inspection to review the effectiveness of the licensee's corrective actions to prevent violations that were identified during the last inspection (i.e., unauthorized possession of gauges containing radium-226, failure to conduct annual audits of the radiation protection program, failure to use two independent physical controls that form tangible barriers to secure portable gauges, and failure to keep the dose to individual members of the public from exceeding 0.002 rem in any one hour). The licensee consisted of a President, Professional Engineer & Radiation Safety Officer (RSO), and two Authorized Users. The licensee possessed 5 portable gauges, as authorized (i.e., Troxler Model 3430 (Serial 38855), Seaman Nuclear Model C-200 (Serial A-982), Seaman Nuclear Model C-100 (Serial 6430), Seaman Nuclear Model C-200 (Serial A-312), and Seaman Nuclear Model C-200 (Serial A-740)). The RSO was unavailable during the on site inspection.

**Performance Observations**

Based on a discussion with the RSO, the RSO conducted an audit of the licensee's Radiation Protection Program in July 2013. The inspector observed: (1) that the only storage shed door had two hasps, both hasps were padlocked, and one padlock was more robust than the other; (2) that keys to the storage shed were limited to authorized persons; (3) a maximum of 1.3 mR/hr at 1 foot from the external surface of the storage shed that contained all of the licensee's gauges, based on the inspector's independent survey with a calibrated, NRC owned instrument; (4) that the Troxler gauge's source rod was locked in the shielded position and the shutter was closed; (5) 10 mR/hr at the surface of the Troxler gauge's closed shutter, based on the inspector's independent survey; (6) a maximum of 2 mR/hr at the side surfaces and 25 mR/hr at the bottom surface of a Seaman gauge (Serial A-982) based on the inspector's independent survey; (7) a maximum of 2.3 mR/hr at the side surfaces, and 25 mR/hr at the bottom surface of a Seaman gauge (Serial 6430) based on the inspector's independent survey; (8) a maximum of 45 mR/hr at the bottom surface, and 85 mR/hr at the top surface (with the top electronics portion of the device removed) of a Seaman gauge (Serial A-312) based on the inspector's independent survey; (9) a maximum of 30 mR/hr at the side surfaces of a Seaman gauge (Serial A-740), 70 mR/hr at the bottom surface, 80 mR/hr at the top surface (with the top electronics portion of the device removed), and 1.5 mR/hr at 6 feet above the top of the gauge under the ceiling of the shed based on the inspector's independent survey; and (10) that all of the gauges were stored upright.