

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  Niowave, Inc. 1012 North Walnut Street Lansing, MI 48906  REPORT NUMBER(S) 2017001	2. NRC/REGIONAL OFFICE  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
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3. DOCKET NUMBER(S)  030-38988	4. LICENSE NUMBER(S)  21-35144-03	5. DATE(S) OF INSPECTION  June 20 <sup>th</sup> , 2017
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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):

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- 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>Ry Craffey</i>	4/20/17
BRANCH CHIEF	Aaron McCraw	<i>AJ MIL</i>	07/06/2017

**Docket File Information**  
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6. INSPECTION PROCEDURES USED  87121	7. INSPECTION FOCUS AREAS  All
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**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  03320	2. PRIORITY  1	3. LICENSEE CONTACT  William Reeve - RSO	4. TELEPHONE NUMBER  (517) 599-1715
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Main Office Inspection                      Next Inspection Date:                      06/20/2018

Field Office Inspection    2050 Port Lansing Road, Lansing, MI

Temporary Job Site Inspection

**PROGRAM SCOPE**

This was an announced initial inspection of the newly-formed NDT division at a superconducting linear accelerator manufacturer, authorized by an NRC materials license issued on February 10, 2017 to use radioactive material for industrial radiography at a field station in Lansing, Michigan, and at temporary job sites in NRC jurisdiction. At the time of the inspection, the licensee's NDT staff (the RSO and five carded radiographers) were based at the main office on North Walnut Street in Lansing, although plans were in place to move the staff to an office at the field station on Port Lansing Road in the near future. The licensee had conducted radiographic operations on two occasions to date.

**PERFORMANCE OBSERVATIONS**

The inspector visited the Walnut Street facility to evaluate the licensee's initial implementation of its radiation safety program for industrial radiography. The inspector reviewed initial training materials, semiannual performance audits and dosimetry reports for all five radiographers, as well as complete records of equipment maintenance and instrument calibrations. The inspector discussed with the licensee its plans for performing and tracking the completion of refresher training, program audits, and other periodic requirements. Through these reviews and discussions, the inspector found the licensee's staff to be knowledgeable of regulatory requirements for industrial radiography.

The inspector toured the field station on Port Lansing Road to evaluate the licensee's measures for hazard communication, exposure control, and transportation of radioactive materials. The licensee demonstrated the conduct of radiography in the on-site accelerator vault (which the crew treated as a temporary job site), including equipment checks, barrier setup and control, and survey meter use. The inspector performed independent and confirmatory surveys during this demonstration and found no evidence of exposure to members of the public outside of the licensee's established boundary. The inspector reviewed utilization logs and shipping papers completed to date, and discussed aspects of the licensee's operating and emergency procedures with the crew. Through these observations and discussions, the inspector found the licensee's staff to be knowledgeable of radiation protection requirements.

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