

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

<p>1. LICENSEE/LOCATION INSPECTED:</p> <p>Niowave, Inc.</p> <p>1012 N. Walnut Street Lansing, MI 48906-5061</p> <p>REPORT NUMBER(S) 16-001</p>	<p>2. NRC/REGIONAL OFFICE</p> <p>Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Rd, Suite 210 Lisle, IL 60532</p>	
<p>3. DOCKET NUMBER(S)</p> <p>030-38770</p>	<p>4. LICENSE NUMBER(S)</p> <p>21-35144-02</p>	<p>5. DATE(S) OF INSPECTION</p> <p>March 4, 2016</p>

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	Zahid Sulaiman, Health Physicist	<i>Zahid Sulaiman</i>	3/4/16
BRANCH CHIEF	Aaron T. McCraw, Chief, MIB	<i>[Signature]</i>	3/25/16

Docket File Information
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6. INSPECTION PROCEDURES USED 87126	7. INSPECTION FOCUS AREAS 03.01-03.07
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03210	2. PRIORITY 2	3. LICENSEE CONTACT Valeriia Starovoitova, PhD, RSO	4. TELEPHONE NUMBER (517) 512-3402
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Main Office Inspection Next Inspection Date: 03/04/2018

Field Office Inspection _____

Temporary Job Site Inspection _____

PROGRAM SCOPE

This was an initial inspection conducted at the licensee's authorized location of use in Lansing, MI. The licensee was authorized for research and development and isotope production using superconducting electron linear accelerator (linac) to target byproduct material to activation. The licensee's work hours were from 8:00 AM - 4:00 PM, Monday through Friday.

Performance Observations:

The inspector toured the facility where the materials are stored and the work is performed. Interviews of available staff revealed an adequate level of understanding of emergency and material handling procedures and techniques. The inspector reviewed the records of the isotope production or target activation activities using Uranium pellets, conducted on Sept 28, 2015, and Nov 23, 2015, with no issues noted. The inspector: (1) had the staff demonstrate the isotope production process using the linac; (2) observed that the licensee had the interlock and warning lights in place when linacs are in operation, targeting the byproduct materials for activation; (3) observed posted radiation area and high radiation area signs; (4) reviewed records of radiation survey measurements conducted around the work areas with no issues noted; (5) observed that the licensee had appropriate radiation measurement equipment, including calibrated survey instruments; (6) had the staff demonstrate how the 5 mR/hr and 2 mR/hr line barrier was established using chain rope; (7) observed the staff conduct a physical inventory of all source materials, all sources were accounted for, and verified that licensed material was secured in accordance with 10 CFR 20.1801; (8) observed that the licensee had a Class D fire extinguisher that was charged and checked at the intervals on the tag affixed to it; (9) reviewed dosimetry records with maximum reading of M (minimally detected) was noted; (10) observed how staff would don and doff personal protective equipment; (11) reviewed the annual program audit conducted by the licensee staff, with no issues noted. The inspector reviewed training documents. The inspector performed independent radiation measurements of the storage area and work area; the results were within regulatory limits.

No violations of NRC requirements were identified during this inspection.