

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE LOCATION INSPECTED: Michigan State University Office of Environmental Health & Safety 4000 Collins Rd. B20 Lansing, MI 48910 REPORT NUMBER(S) 202001	2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenton Road, Suite 210 Lisle, IL 60532-4352
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3. DOCKET NUMBER(S) 030-00806	4. LICENSE NUMBER(S) 21-00021-29	5. DATE(S) OF INSPECTION 2/13/2020 2/6/2020
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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:

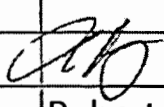
- ☒ 1. Based on the inspection findings, no violations were identified.
- ☒ 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was 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	Luis Nieves Folch		2/6/2020
BRANCH CHIEF	Robert Ruiz	Robert Ruiz	Digitally signed by Robert Ruiz Date: 2020.02.28 11:31:27 -06'00'

Docket File Information

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5. DATE(S) OF INSPECTION

02/03/2020-02/06/2020

6. INSPECTION PROCEDURES USED

87126, 87130

7. INSPECTION FOCUS AREAS

All

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S)

01100

2. PRIORITY

3

3. LICENSEE CONTACT

Bryan Harris - RSO

4. TELEPHONE NUMBER

(585) 754-2058

☒ Main Office Inspection

Next Inspection Date: February 3, 2020

☐ Field Office Inspection

☐ Temporary Job Site Inspection

PROGRAM SCOPE

This was an unannounced routine inspection of Michigan State University (MSU) had an enrollment of approximately 50,000 students and 5,000 faculty. Authorized by its broad scope license to use radioactive material for scientific research and development, medical diagnosis, and veterinary diagnosis and therapy at its campus in East Lansing, Michigan, at a biological research station in Hickory Corners, Michigan, and in limited applications at temporary job sites in NRC jurisdiction: The licensee had approximately 86 users approved by the University's RSC for research and development, routinely conducted diagnostic administrations at one of two departments (SPECT and PET) in the University's Clinical Center, and conducted diagnostic and therapeutic administrations (using Tc-99m and I-131, respectively) at the Veterinary Medical Center (VMC). The licensee possessed numerous sealed sources, numerous ECDs stored at the Hickory Corners location and used in mobile laboratories at temporary job sites. The licensee operated an incinerator on-campus for disposal of solid radioactive waste, but disposed of liquid waste via sanitary sewer, and mixed waste via pickup by an authorized waste hauler. The licensee's radiation safety department received non-medical licensed material, calibrated survey instruments, and conducted initial radiation worker training at their office.

Performance Observations

The inspector toured a number of facilities on-campus, including the Clinical Center, VMC, Diagnostic Center for Population and Animal Health, and numerous research laboratories. The inspector observed decontamination procedures and surveys at the VMC, receipt of packages containing licensed material, and the conduct of initial radiation safety training. The inspector interviewed the licensee's radiation safety staff, a number of authorized users and trained radiation workers to discuss the implementation of the licensee's radiation protection procedures. The inspector also verified a selection of the licensee's inventory of sealed sources. The inspector conducted independent surveys at these facilities, and found no evidence of residual contamination or exposures to members of the public in excess of regulatory limits.

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PROGRAM SCOPE

(Continued)

The inspector reviewed a selection of available records, including authorized user approvals, RSC meeting minutes, various program audits, laboratory surveys and audits, incident reports, incineration records including ash analysis, package receipt documentation, laboratory utilization logs, sealed source leak test results, personnel dosimetry reports, and survey meter calibration records.

The inspector also reviewed the licensee's corrective actions for a violation identified during a previous inspection (IR 03000806/2016001 (DNMS)) regarding the failure to retain records of the disposal of animal bedding containing radioactive material that had been generated by diagnostic administration at the VMC and held for decay in-storage as authorized by the Licensee Condition. The inspector review the records for contaminated animal bedding. Therefore the NRC considers this violation to be closed.

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