

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Wayne State University
Health Physics Department
5425 Woodward Avenue, 3rd Floor
Detroit, MI 48202

REPORT NUMBER(S) 2021001

2. NRC/REGIONAL OFFICE

Region III
U. S. Nuclear Regulatory Commission
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

3. DOCKET NUMBER(S)

030-01995

4. LICENSE NUMBER(S)

21-00741-08

5. DATE(S) OF INSPECTION

March 19, 2021

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	Zahid M. Sulaiman <small>Digitally signed by Zahid M. Sulaiman Date: 2021.03.26 14:59:45 -05'00'</small>	
BRANCH CHIEF	Michael Kunowski, Chief, MIB	Michael A. Kunowski <small>Digitally signed by Michael A. Kunowski Date: 2021.03.29 05:39:12 -05'00'</small>	



Materials Inspection Record

1. Licensee Name: Wayne State University		2. Docket Number(s): 030-01995		3. License Number(s) 21-00741-08	
4. Report Number(s): 2021001			5. Date(s) of Inspection: March 19, 2021		
6. Inspector(s): Zahid Sulaiman, Health Physicist		7. Program Code(s): 01100		8. Priority: 3	9. Inspection Guidance Used: 87126
10. Licensee Contact Name(s): Maha Srinivasan, RSO		11. Licensee E-mail Address: msriniva@wayne.edu		12. Licensee Telephone Number(s): 313-577-0019	
13. Inspection Type: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Non-Routine <input type="checkbox"/> Initial <input type="checkbox"/> Unannounced		14. Locations Inspected: <input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site <input checked="" type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): 03/19/2024 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change	

16. Scope and Observations:

This was an announced remote routine inspection of a large academic institution located in Detroit, Michigan. The university operated a Type A academic broadscope license, and was authorized to possess and use radioactive materials in millicurie quantities, primarily for research and development, and teaching purposes. The radiation safety department was staffed with a radiation safety officer (RSO), an assistant RSO, a health physics specialist, and two radioactive waste technicians. The licensee established a radiation safety committee (RSC) which reviewed and approved principle investigators (PIs), users, uses and facilities for the institution, and reviews an annual radiation safety program audit. The licensee had approximately 40 PIs, were approved by the (RSC) who conducted research in 66 labs on the campus. The licensee had approximately 250 individuals approved as radiation workers, who worked under the supervision of the PIs. The majority of the licensee's research involved H-3, C-14, F-18, P-32, C-11, Cu-64, Zr-88, and Lu-177. The RSC meets quarterly. The radiation safety office conducted audits of the research labs every six months.

PERFORMANCE OBSERVATIONS

This inspection was conducted virtually through the Microsoft Team meeting and iPhone facetime, consisted of interview with select licensee personnel, a tour of selected research labs, waste storage facility, a review of select records, and an observation of security of the materials. Through Team meeting and facetime, the inspector observed the staff conduct a physical inventory of sealed sources, and all sources were accounted for. The inspector had the staff demonstrate and explained ordering and receipt of licensed materials, the inventory tracking system, package receipt procedures, laboratory use of licensed materials, labs inventory procedures, proper handling of radioactive waste and disposal procedures, contamination surveys, and spill response, with no issue noted. Through these demonstrations and other discussion, the inspector found that the licensee personnel was knowledgeable of radiation protection principles, licensee procedures, and regulatory requirements.

The inspector reviewed the following records: radiation safety committee minutes, semi-annual program audits, package receipts, waste disposal records, radiation safety and DOT Hazmat training, instrument calibration, sealed source leak tests and inventory, area surveys, and wipe tests. The inspector also reviewed the dosimetry records for 2019 through December 31, 2020, indicating the maximum annual dose to be 75 mrem - DDE, and 1,143 mrem - SDE.

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