



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 checked="" type="checkbox"/> Announced <input type="checkbox"/> Non-Routine <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.