



Materials Inspection Record

1. Licensee Name: Consumers Energy - Laboratory Services		2. Docket Number(s): 030-04868		3. License Number(s) 21-08606-03	
4. Report Number(s): 2022-001			5. Date(s) of Inspection: February 1 and 8, 2022		
6. Inspector(s): Ryan Craffey		7. Program Code(s): 03320	8. Priority: 1	9. Inspection Guidance Used: 87121	
10. Licensee Contact Name(s): John Merrill - RSO		11. Licensee E-mail Address: john.merrill@cmsenergy.com		12. Licensee Telephone Number(s): 517-788-7104	
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 checked="" type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): 02/01/2023 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change	

16. Scope and Observations:

This public utility was authorized to use byproduct material for industrial radiography and instrument calibrations at a permanent radiographic installation in Jackson, Michigan, at field stations in West Olive and Bay City, Michigan, and at temporary job sites in NRC jurisdiction. At the time of the inspection, the licensee had 31 radiography staff working throughout its service area in Michigan, supporting various utility infrastructure projects. The work typically slowed during the winter. The RSO was now aided in his oversight of the program by an assistant RSO. Both were based at the Jackson laboratory.

The inspector toured the facility in Jackson and visited a temporary job site along US-127 at Barnes Road in Mason. All areas were properly posted and all licensed material was adequately secured or under control and constant surveillance of approved personnel. At the Jackson laboratory, the inspector observed a performance audit of the RSO by the assistant RSO during actual industrial radiographic operations in the lab's radiographic installation, and performed independent surveys during these operations. No exposures in excess of limits to members of the public were noted in any unrestricted areas, including the roof. The RSO properly utilized radiographic equipment and appropriate instrumentation and dosimetry, and his assistant performed an effective audit. The inspector also discussed the status and oversight of the program with the RSO and his assistant, and reviewed a selection of personnel dosimetry reports, radiographer audits, initial training records for two assistant radiographers hired since the last inspection, refresher training material (which included documentation of the RSO's program audit activities) for 2021 and 2022, as well as documentation of recent quarterly equipment maintenance, instrument calibrations, and physical inventories of sealed sources.

At the temporary job site in Mason, the inspector observed the conduct of radiographic operations on a natural gas pipeline expansion project, discussed the implementation of operating and emergency procedures with licensee personnel, and reviewed shipping papers, utilization logs, and leak test results. The inspector conducted independent and confirmatory surveys in the vicinity of these operations, and found that the crew established and maintained adequate barriers to limit exposure to members of the public below regulatory limits whenever radiographic operations were in progress. The crew also properly utilized radiographic equipment and appropriate instrumentation and dosimetry, followed physical presence requirements, and implemented highly effective ALARA practices for radiography, including a 6.8 half-value layer collimator. The inspector found the licensee's staff at both locations to be knowledgeable and conscientious of radiation protection principles, licensee procedures, and regulatory requirements.

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