



Materials Inspection Record

1. Licensee Name: McLaren - Greater Lansing		2. Docket Number(s): 030-02037		3. License Number(s) 21-04073-01	
4. Report Number(s): 2022-001			5. Date(s) of Inspection: January 10 and 12-13, 2022		
6. Inspector(s): Ryan Craffey		7. Program Code(s): 02230	8. Priority: 2	9. Inspection Guidance Used: IP 87131 and 87132	
10. Licensee Contact Name(s): Kimberly Grove - RSO Michael Huberts - AMP Tracy King - Consultant		11. Licensee E-mail Address: kimberly.grove@mclaren.org michael.huberts@mclaren.org tking@mpcphysics.com		12. Licensee Telephone Number(s): 517-975-6376 517-975-7811 734-662-3197	
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 checked="" type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): 01/10/2024 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change	

16. Scope and Observations:

This regional hospital was authorized to use byproduct material for diagnostic and therapeutic medical purposes at its main campus on Greenlawn in Lansing, MI, at two satellite facilities in Lansing and Okemos, MI, and at a new main campus on Collins in Lansing, expected to open by late February 2022. At the main campus on Greenlawn, the licensee performed diagnostic administrations daily at its general nuclear medicine and its cardiology departments, as well as occasional therapeutic administrations of I-131 NaI capsules and Ra-223 Xofigo. The licensee had not yet performed any Y-90 microsphere therapies but was expecting to do so after moving to the new hospital. The licensee occasionally used a Varian Bravos HDR unit at its radiation oncology department and had performed 13 manual brachytherapy treatments for prostate cancer with I-125 seeds since the last inspection. However, the licensee had transitioned to using its new HDR unit for prostate as well as gynecological cancer treatments, and thus had discontinued its use of manual brachytherapy. At the satellite facilities in Lansing and Okemos, the licensee performed diagnostic administrations daily and occasional I-131 NaI therapies (Lansing only).

The inspector visited the main campus on Greenlawn in Lansing as well as both satellite facilities, and toured the new hospital on Collins while it was still under construction. All areas were properly posted and all licensed material was adequately secured. The inspector noted that the doors to both hot labs at the new hospital did not lock; the licensee immediately addressed this. Readings from independent surveys in restricted and unrestricted areas of existing facilities were within regulatory limits, and no contamination was noted. The inspector observed several diagnostic administrations of Tc-99m and I-123 and receipt of packages containing licensed material at the main hospital's cardiovascular department and at both satellite facilities. The inspector also observed demonstrations of HDR daily spot checks and implementation of emergency response procedures at radiation oncology. The inspector interviewed several nuclear medicine technologists, a medical physicist, members of licensee management, and the RSO. All were knowledgeable of radiation protection principles, licensee procedures, and regulatory requirements, and utilized appropriate ALARA practices, personnel dosimetry, and calibrated instrumentation throughout.

The inspector reviewed a selection of records including RSC minutes, quarterly audits, dosimetry reports, routine nuclear medicine records, HDR source exchange, calibration, and annual documentation, as well as a selection of records for I-131 NaI and Ra-223 Xofigo therapies, HDR treatments, and permanent implant brachytherapy treatments. The inspector also reviewed the licensee's procedures for Y-90 microsphere therapies, and noted that the licensee was not yet authorized to perform these therapies at the new hospital. The licensee acknowledged this and committed to submit and obtain an amendment request prior to possessing or using microspheres there.

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