



### Materials Inspection Record

<b>1. Licensee Name:</b> Henry Ford Health Providence Hospital		<b>2. Docket Number(s):</b> 030-02022		<b>3. License Number(s)</b> 21-02802-03	
<b>4. Report Number(s):</b> 2026001			<b>5. Date(s) of Inspection:</b> 03/16/2026-04/24/2026		
<b>6. Inspector(s):</b> Jonathan Pfingsten		<b>7. Program Code(s):</b> 02240	<b>8. Priority:</b> 2	<b>9. Inspection Guidance Used:</b> 87130, 87132	
<b>10. Licensee Contact Name(s):</b> Vikram Kinni, M.D., RSO		<b>11. Licensee E-mail Address:</b> vnedelj1@hfhs.org		<b>12. Licensee Telephone Number(s):</b> 248-849-3000	
<b>13. Inspection Type:</b> <input type="checkbox"/> Initial <input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Announced <input type="checkbox"/> Non-Routine <input type="checkbox"/> Unannounced		<b>14. Locations Inspected:</b> <input type="checkbox"/> Hybrid <input checked="" type="checkbox"/> Main Office <input checked="" type="checkbox"/> Field Office <input checked="" type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		<b>15. Next Inspection Date (MM/DD/YYYY):</b> 3/16/2028 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change	
<b>16. Location(s) Inspected List:</b> 16001 W. Nine Mile Rd., Southfield, Michigan 48075 47601 Grand River Ave., Novi, MI 48374 Henry Ford Genesys Hospital, 1 Genesys Parkway, Grand Blanc, MI 48439					
<b>17. Scope and Observations:</b> Henry Ford Health Providence Hospital was a large, regional healthcare provider. The licensee was authorized for the possession and use of licensed materials permitted by 10 CFR 35.100, 35.200, 35.300, 35.400 [limited to iodine-125 (I-125), cesium-137 (Cs-137), and palladium-103 (Pd-103)], and 35.1000 [limited to yttrium-90 (Y-90) for use in TheraSpheres]. The licensee was authorized for the possession and use of licensed materials at two fixed locations of use and temporary jobsites. With respect to temporary jobsites, the licensee operated two mobile trailers for positron emission tomography (PET) at various locations in southern and central Michigan.  The license has been amended three times since the start of the prior routine inspection: • Amendment No. 99, issued on November 29, 2023, removing an authorized user and revising the wording of an Associate Radiation Safety Officer (ARSO) authorization. • Amendment No. 100, issued on May 16, 2024, renewing the license with no significant programmatic changes. • Amendment No. 101, issued on November 21, 2025, recognizing the change of control and change in name to Henry Ford Health Providence Hospital and removal of an authorized user.  The licensee's Radiation Safety Officer (RSO) was a physician and authorized user (AU) under the license. The licensee's ARSO was a physicist directly employed by the licensee. The licensee also contracted with a consultant physicist group who performed duties such as audits, training, and equipment testing.  Novi - Nuclear Medicine The licensee's general nuclear medicine program at their Novi, MI, location was separated into two separate areas of use: Nuclear Medicine Inpatient and Nuclear Medicine Outpatient. The areas were each staffed daily with a nuclear medicine technologist (NMT). Each area performed approximately 5 studies per day, primarily utilizing unit dosages. The licensee received 50 mCi bulk doses daily. The licensee performed a wide variety of general nuclear medicine studies using primarily Tc-99m, I-123, and Xe-133, including bone, renal, parathyroid, and lung ventilation and perfusion scans among others. Each area had a single camera, uptake probe, and hot lab. The licensee					

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performed approximately 20 outpatient administrations requiring a written directive under 10 CFR 35.300 each year at this location.

### Novi – Cardiology

The location's cardiac scans were performed in the Henry Ford Heart Institute – Novi under a joint venture. The licensee performed approximately 14 administrations per day, with 3 full-time NMTs, a part-time NMT, two imaging cameras, two treadmills, and its own hot lab. The licensee utilized only unit dosages.

### Novi - Manual Brachytherapy

The licensee performed manual brachytherapy under 10 CFR 35.400 at the Novi location most Mondays, with up to four procedures per week and approximately twelve per month. While the licensee was equipped to perform a wide variety of brachytherapy applications, the licensee primarily performed prostate seed implants in recent years. The licensee had identified inpatient rooms and discussed the procedures, including personnel training, associated with inpatient treatments.

### Southfield - Nuclear Medicine

This location's general nuclear medicine area was staffed seven days a week with one full-time and one part time NMT, separate from the NMT in cardiology. They performed a wide variety of nuclear medicine studies, utilizing primarily unit dosages. Similar to Novi, the Southfield location also received bulk Tc-99m doses for add-ons. The licensee performed approximately 15 administrations requiring a written directive under 10 CFR 35.300 each year from this location.

### Southfield – Cardiology

The licensee's cardiac scans were performed in a separate area. The area was staffed by a full-time NMT and performs approximately 10 studies each day. The licensee only utilized unit dosages in this area. The cardiac area had its own hot lab, camera, and treadmills.

### Southfield – Y-90 Microspheres

The licensee was authorized to utilize Y-90 in TheraSphere dose delivery systems. The patients underwent MAA mapping in the NM department; the licensee's physicists, Radiation Oncology, and Interventional Radiologists (IR) performed Y-90 dosage measurements, room preparation, dosage administration, surveys, clean-up, and waste handling. Any waste generated during the Y-90 administration was stored in the licensee's approved waste storage area(s). The licensee performed approximately one Y-90 administration each month.

### Temporary Jobsite – Henry Ford Genesys Hospital, 1 Genesys Parkway, Grand Blanc, MI 48439

The licensee operated two PET trucks as part of a joint venture to provide imaging at temporary jobsites. The trucks operated at various Henry Ford health centers, as well as one Beacon Health System location, across central and southern Michigan. The PET NMTs cycled between the two trucks. The licensee utilized only unit dosages, limited to Ga-68 and F-18. The licensed materials were delivered each day directly to the PET trucks; no deliveries were made to the hospitals. The licensee injected the licensed materials and performed the imaging on the trucks; the patients waited in uptake rooms and utilized dedicated patient bathrooms located within the hospitals. The NMTs performed surveys and addressed any contamination found at the hospitals at the end of each day.

### Observations and Findings

As appropriate for the material authorizations for each location and area, the inspector interviewed the pertinent personnel on operating, security, and emergency procedures. The staff were found to be knowledgeable of their responsibilities under the licensee's program.

The inspector performed surveys in and around areas of use and storage and found radiation levels consistent with the type, form, and quantity of radioactive materials possessed and utilized, as well as the licensee's postings and

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controls. The inspector observed the licensee perform inventories of sealed sources; the selected inventories matched the licensee's inventories of record or had minor documentation inconsistencies that were corrected.

For the NM programs, the inspector observed or interviewed the staff concerning the following: daily quality assurance (QA) testing of pertinent equipment; package receipt and return; room preparation and dosage preparation, administration, and clean-up, including observations of lymphoscintigraphy, I-131 whole body, bone, cardiac, lung perfusion, and PET studies; dosimetry practices; security of materials; surveys and wipe tests; and waste disposal practices.

For the brachytherapy program, the inspector interviewed the licensee's staff on their procedures for treatment planning and written directive preparation; seed ordering, receipt, and tracking through the life cycle of the sources through final disposal or implantation; implantation procedures; surveys of patients, staff, and rooms; and medical event evaluation.

For the Y-90 program, the inspector interviewed the authorized user and physicist on the licensee's processes for: patient imaging; ordering and measuring the dosages; room preparation; delivery system preparation; administration procedure; room, patient, and personnel surveys; room cleanup; waste management; and medical event evaluations.

There were no implant brachytherapy or Y-90 administrations during the week of the inspection.

The inspector reviewed samples of the following documentation at each location, as appropriate: radiation safety committee (RSC) meeting minutes; annual or quarterly program audits; dose calibrator QA testing; survey meter calibrations; waste disposal logs; sealed source inventory and leak tests; dosimetry reports; radiation safety and DOT/HAZMAT training; dosage administration records; area surveys and wipe records; written directives; patient release calculations, instructions, and surveys; package receipt and return records.

The prior routine inspection (IR 2023001) included four violations concerning the failure to:

- Reduce the dose that an individual may receive in the current year by the amount of occupational dose received while employed by any other person as required by Title 10 of the Code of Federal Regulations (10 CFR) 20.1201(f).
- Monitor occupational dose as required by 10 CFR 20.1502(a)(1).
- Establish a Radiation Safety Committee, staffed by necessary staff, to oversee all uses of byproduct material permitted by the license as required by 10 CFR 35.24(f).
- Ensure that written directives were dated and signed by authorized users before the administration of therapeutic doses of radiation from byproduct material as required by 10 CFR 35.40(a).

As corrective action, the licensee committed to: (1) identify individuals with external radiation worker employment and collected required dosimetry records; (2) revise annual radiation safety training to inform employees of the need to notify the licensee of occupational exposure outside of this NRC license; (3) perform and submit a dose reconstruction; (4) provide training on the need to use dosimetry to IR physicians involved in Y-90 procedures; (5) add a procedural timeout to IR cases to ensure proper dosimetry use; (6) identify alternate members for the RSC if the primary members were unavailable for the revised, annual meeting; (7) revise the process for prostate seed implant cases to ensure the written directive prior to implantation is signed and dated as a prescription with the nominal total source strength in the licensee's computer based systems prior to administration; (8) train all staff involved in prostate seed implant procedures on written and oral directives or revisions; (9) add a hard-stop verification step to the operating room checklist for confirmation of AU signatures and other necessary information on written directives.

The licensee completed the corrective actions as described and the violations have not recurred. These violations are closed.

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No violations were cited in this inspection.

Signature and Date - Branch Chief



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