



Materials Inspection Report

1. Licensee/Location Inspected: Heart and Vascular Institute 4160 John R Street Detroit, MI 48201 Report Number(s) 2024-001	2. NRC/Regional Office Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
---	--

3. Docket Number(s) 030-38248	4. License Number(s) 21-32784-01	5. Date(s) of Inspection 02/08/24; exit 02/26/24
---	--	--

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. During this inspection, certain of your activities, as described below and/or attached, were in violation of NRC requirements, and were assessed at Severity Level IV, in accordance with the NRC Enforcement Policy.
 - A. 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, corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy were satisfied.
 (Non-cited violation(s) was/were discussed involving the following requirement(s))

 - B. The following violation(s) is/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 AND DATE
LICENSEE'S REPRESENTATIVE		
NRC INSPECTOR	Ryan Craffey	 <small>Digitally signed by Ryan J. Craffey Date: 2024.02.27 11:14:22 -06'00'</small>
BRANCH CHIEF	Rhex Edwards	 <small>Digitally signed by RHEX EDWARDS Date: 2024.02.29 12:45:50 -06'00'</small>



Materials Inspection Record

1. Licensee Name: Heart and Vascular Institute		2. Docket Number(s): 030-38248		3. License Number(s) 21-32784-01	
4. Report Number(s): 2024-001			5. Date(s) of Inspection: February 8, 2024; exit February 26, 2024		
6. Inspector(s): Ryan Craffey		7. Program Code(s): 02201	8. Priority: 5	9. Inspection Guidance Used: IP 87130	
10. Licensee Contact Name(s): Cari Dzanbazoff - Consultant, RSO		11. Licensee E-mail Address: cdzanbazoff@mpcphysics.com		12. Licensee Telephone Number(s): 734-662-3197	
13. Inspection Type: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Announced <input type="checkbox"/> Non-Routine <input checked="" type="checkbox"/> Unannounced		14. Locations Inspected: <input type="checkbox"/> Hybrid <input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): 03/15/2024 <input type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input checked="" type="checkbox"/> No change	
16. Location(s) Inspected List: Main Office - 4160 John R Street, Detroit, MI					
17. Scope and Observations: Heart and Vascular Institute is a private medical practice authorized to perform diagnostic administrations of radiopharmaceuticals at its clinics in Detroit, Dearborn, Southfield, and Wayne, Michigan. NMTs performed stress tests every weekday at the Detroit (10-15 per day) and Dearborn locations, every Tuesday at the Southfield location, and at the Wayne location (added in 2021) every Monday and Thursday. All locations used unit doses from a radiopharmacy in Lansing, and were audited quarterly by a medical physics consultant, who also served as RSO. The inspector toured the clinic in the Harper Professional Building at the Detroit Medical Center in Detroit. All areas were adequately posted, and all licensed material was adequately secured. The inspector performed independent radiation surveys in and around restricted areas of the facility. No exposures above public limits were noted. The inspector observed the licensee's NMT prepare and administer five doses of Tc-99m for cardiac stress tests, prepare packages containing residual licensed material for return, and perform area surveys. The NMT was knowledgeable of radiation protection principles and regulatory requirements, wore personnel dosimetry as assigned, used calibrated and operable radiation detection instruments, and implemented effective ALARA practices. The inspector also reviewed a selection of records related to the radiation protection program, including consultant audits, instrument calibration records, sealed source inventory and leak tests results, dose administration records, misadministration records (with no violations or medical events noted following a short period of in-office review), results of various routine radiation surveys, hazmat training materials, and personnel dosimetry reports. The licensee was previously cited in 2019 for a SLIV violation of 10 CFR 20.1801 regarding the failure to secure the the nuclear medicine hot lab in Detroit. The inspector confirmed that the licensee had installed a new handle with keypad on the hot lab door as well as a hydraulic door closer. The handle locked automatically after opening via key code, the door closer functioned effectively, the hot lab was controlled or secured at all times during the inspection, and no additional examples were identified by the consultant on subsequent audits. This violation is therefore closed.					

Materials Inspection Record (Continued)

No other violations of NRC requirements were identified as a result of this inspection. One additional location needs to be inspected in order to consider the inspection effort complete, therefore the next inspection date remains unchanged.

Signature and Date - Branch Chief



Digitally signed by RHEX EDWARDS
Date: 2024.02.29 12:45:28 -06'00'