



Materials Inspection Report

1. Licensee/Location Inspected:

VHS Children's Hospital of Michigan, Inc.
3901 Beaubien Boulevard
Detroit, MI 48201

Report Number(s) 2022-001

2. NRC/Regional Office

Region III
U. S. Nuclear Regulatory Commission
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

3. Docket Number(s)

030-13166

4. License Number(s)

21-03298-05

5. Date(s) of Inspection

August 17, 2022

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	<i>R. Craffey</i> Digitally signed by Ryan J. Craffey Date: 2022.09.06 07:13:05 -0400
BRANCH CHIEF	Michael Kunowski	<i>Michael Kunowski</i> 9-6-2022



Materials Inspection Record

1. Licensee Name: VHS Children's Hospital of Michigan		2. Docket Number(s): 030-13166		3. License Number(s): 21-03298-05	
4. Report Number(s): 2022-001			5. Date(s) of Inspection: August 17, 2022		
6. Inspector(s): Ryan Craffey		7. Program Code(s): 02120		8. Priority: 3	9. Inspection Guidance Used: IP 87131
10. Licensee Contact Name(s): Joel Rogers - RSO		11. Licensee E-mail Address: jrogers@landauermp.com		12. Licensee Telephone Number(s): 313-573-0490	
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 checked="" type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): 08/17/2025 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change	

16. Scope and Observations:

VHS Children's Hospital of Michigan was a 228-bed pediatric acute care hospital on the premises of the Detroit Medical Center in midtown Detroit, Michigan, authorized to perform diagnostic and therapeutic administrations of radiopharmaceuticals. At the time of the inspection, one full-time nuclear medicine technologist performed 1-4 diagnostic administrations per day using unit doses from a licensed radiopharmacy, as well as occasional therapeutic administrations using I-131 capsules for treatment of hyperthyroidism. The licensee retained the services of a medical physics consultant to serve as RSO and to audit the program quarterly.

The inspector toured the hospital in Detroit. All areas were properly posted and all licensed material was adequately secured. The inspector conducted independent and confirmatory surveys of the nuclear medicine department and found no residual contamination or exposures to members of the public in excess of regulatory limits. The inspector observed the conduct of a GFR study using unit doses of Tc-99m radiopharmaceuticals, as well as demonstrations of receiving packages containing licensed material. The inspector found both the incoming and outgoing technologists (it was the latter's last day) to be knowledgeable of radiation protection principles and regulatory requirements, and noted the use of adequate ALARA practices, personnel dosimetry, and calibrated and operable radiation detection instruments.

The inspector reviewed documentation for both I-131 therapies administered since the last routine inspection, as well as a selection of records related to the radiation safety program, including audits from previous and current consulting groups (the licensee switched in November 2020), dose calibrator and well counter quality control tests, sealed source inventories, leak test results, and transfer records, approved dose protocols for pediatric patients, and personnel dosimetry reports.

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