

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

## 1. LICENSEE/LOCATION INSPECTED:

Capital Region Medical Center  
1125 Madison Street  
Jefferson City, MO 65102

REPORT NUMBER(S) 2019-001

## 2. NRC/REGIONAL OFFICE

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

## 3. DOCKET NUMBER(S)

030-02375

## 4. LICENSE NUMBER(S)

24-12699-01

## 5. DATE(S) OF INSPECTION

10/22/19

## 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:

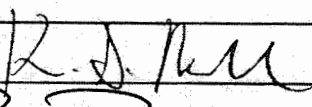
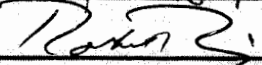
- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, to exercise discretion, were satisfied.

Non-cited violation(s) were discussed involving the following requirement(s):

- ☐ 4. During this inspection, certain of your activities, as described below and/or attached, were in violation of NRC requirements and 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  | DATE     |
|---------------------------|---------------|--|----------|
| LICENSEE'S REPRESENTATIVE |               |  |          |
| NRC INSPECTOR             | Kevin G. Null |  | 10/22/19 |
| BRANCH CHIEF              | Robert Ruiz   |  | 11/18/19 |

## Docket File Information

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## 5. DATE(S) OF INSPECTION

October 22, 2019

## 6. INSPECTION PROCEDURES USED

87131

## 7. INSPECTION FOCUS AREAS

All

## SUPPLEMENTAL INSPECTION INFORMATION

## 1. PROGRAM CODE(S)

2120

## 2. PRIORITY

3

## 3. LICENSEE CONTACT

Kristy Trent, Dir of Med Imaging

## 4. TELEPHONE NUMBER

(573) 632-5272

☒ Main Office Inspection

Next Inspection Date: 10/22/2022

☐ Field Office Inspection☐ Temporary Job Site Inspection

## PROGRAM SCOPE

This was a routine, unannounced inspection of a nuclear medicine department that was authorized to use material described in 10 CFR 35.100, 200, and 300. The licensee employed 2 full-time certified nuclear medicine technologists (CNMT's) and a department supervisor. The licensee performed an average of 4 - 8 diagnostic studies each day in 2 imaging rooms. Licensed material was received in the form of unit doses from a local radiopharmacy, and was processed in the licensee's hot lab. The licensee also performed an average of 6 radium-223 xofigo procedures each month, and administered 2 - 3 iodine-131 therapy treatments, in capsule form only, each year. The licensee contracted with a medical physics consultant who performed quarterly audits of the radiation protection program.

## Performance Observations

The inspector toured the nuclear medicine department and radioactive waste storage area, and interviewed 2 staff CNMT's, the department supervisor, and the Director of Medical Imaging. Staff members described and or demonstrated radioactive material package receipt procedures and surveys of incoming packages for radiation levels and removable contamination, daily dose calibrator constancy checks, daily and weekly department surveys, and security of the nuclear medicine department and licensed material. The inspector observed the use of laboratory coats, disposable gloves, syringe shields, and dosimetry by the CNMT's. The inspector reviewed dosimetry results for 2018 and 2019 to date, survey meter calibration and dose calibrator QA/QC records, and package receipt records including records of package surveys. The inspector also reviewed a random selection of written directives for iodine-131 and radium-223 xofigo treatments that were administered since the last inspection.

The inspector performed independent surveys in restricted areas within the nuclear medicine department and unrestricted areas directly adjacent to the department. Radiation levels ranged from 0.04 - 0.07 mrem per hour.

No violations of NRC requirements were identified.