

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  
 Capital Region Medical Center Nuclear Medicine Department  
 1125 Madison St.  
 P.O. Box 1128  
 Jefferson City, MO 65102  
 REPORT NUMBER(S) 2017001

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  
 February 8, 2017

**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             | Navid Tehrani | <i>Navid Tehrani</i>        | 2/8/17  |
| BRANCH CHIEF              | Aaron McCraw  | <i>Aaron McCraw for ATM</i> | 2/27/17 |

**Docket File Information**  
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| 6. INSPECTION PROCEDURES USED<br><br>87131 | 7. INSPECTION FOCUS AREAS<br><br>03.01-03.09 |
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**SUPPLEMENTAL INSPECTION INFORMATION**

|                                 |                      |   |   |
|---------------------------------|----------------------|---|---|
| 1. PROGRAM CODE(S)<br><br>02120 | 2. PRIORITY<br><br>3 | 3. LICENSEE CONTACT<br><br>Ken Anderson - RSO | 4. TELEPHONE NUMBER<br><br>(314) 307-0587 |
|---------------------------------|----------------------|---|---|

Main Office Inspection      Next Inspection Date: 02/08/2020

Field Office Inspection \_\_\_\_\_

Temporary Job Site Inspection \_\_\_\_\_

**PROGRAM SCOPE**

This was an unannounced, routine inspection of a medium sized hospital located in Jefferson City, MO. The licensee had not conducted brachytherapy since before the last inspection, and it was uncertain about whether it would restart brachytherapy activities. The licensee occasionally administered iodine-131 capsules to patients for thyroid treatments. Two full-time nuclear medicine technologists (NMTs) conducted about 5 diagnostic imaging studies per day Monday through Friday. The licensee did not use technetium or rubidium generators. Dosages were received from a licensed pharmacy. The Radiation Safety Officer visited the site quarterly.

**PERFORMANCE OBSERVATIONS**

The inspector toured the nuclear medicine department to evaluate the licensee's measures for materials security, hazard communication and exposure control. The inspector observed the preparation and administration of one sentinel node study. The inspector conducted independent surveys and found no exposures to members of the public distinguishable from background. The technologist on staff demonstrated implementation of procedures for package receipt, area surveys, spill response, and waste handling. Through these demonstrations and other discussions, the technologists on staff demonstrated adequate knowledge of radiation protection principles, licensee procedures and NRC requirements.

The inspector reviewed the licensee's procedures and documentation for the administration of radiopharmaceuticals requiring a written directive, and verified that they provided high confidence that the patient's identity was verified before each administration, and that each administration was in accordance with the written directive. The inspector also reviewed a selection of licensee records for instrument quality control, package receipt, dose administration, area surveys, decay-in-storage waste handling, dosimetry records, sealed source inventory and leak testing, and quarterly audits of the radiation safety program.

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