

### SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:  Centerpoint Medical Center of Independence, LLC d/b/a Centerpoint Medical Center 19600 E. 39th Street Independence, MO 64057  REPORT NUMBER(S) 2017001	2. NRC/REGIONAL OFFICE  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
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3. DOCKET NUMBER(S)  030-13994	4. LICENSE NUMBER(S)  24-18655-01	5. DATE(S) OF INSPECTION  8/9/17
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**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):

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- 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		8/9/17
BRANCH CHIEF	Aaron T. McCann		8/18/17

**Docket File Information**

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<p>3. DOCKET NUMBER(S)</p> <p>030-13994</p>	<p>4. LICENSE NUMBER(S)</p> <p>24-18655-01</p>	<p>5. DATE(S) OF INSPECTION</p> <p>August 9, 2017</p>
<p>6. INSPECTION PROCEDURES USED</p> <p>87131</p>	<p>7. INSPECTION FOCUS AREAS</p> <p>03.01 - 03.07</p>	

**SUPPLEMENTAL INSPECTION INFORMATION**

<p>1. PROGRAM CODE(S)</p> <p>2240</p>	<p>2. PRIORITY</p> <p>2</p>	<p>3. LICENSEE CONTACT</p> <p>Linda Dunaway</p>	<p>4. TELEPHONE NUMBER</p> <p>(816) 698-7132</p>
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Main Office Inspection      Next Inspection Date: 08/09/2019

Field Office Inspection    3889 Jackson Drive, Independence, MO

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

**PROGRAM SCOPE**

This was a routine, unannounced inspection of Centerpoint Medical Center (CMC), a 200-bed hospital. CMC was authorized to use material described in 10 CFR Sections 35.100, 200, and 300, and yttrium-90 microspheres as permitted in Section 35.1000, at 19600 East 39th Street, Independence, Missouri. The licensee was also authorized to perform medical studies described in Sections 35.100 and 200 at 3889 Jackson Drive, Independence, Missouri. CMC's nuclear medicine department was staffed by three full-time certified nuclear medicine technologists. The department had 3 imaging rooms, 1 stress room, and 2 hot labs, and performed an average of 30 diagnostic studies per week. In 2016, the department administered 34 iodine-131 therapy procedures and 19 in 2017. No yttrium-90 procedures had been conducted since the last inspection. The licensee had a radiation safety committee which met on a quarterly basis, and contracted with a medical physics consultant to conduct quarterly audits of the radiation protection program.

**PERFORMANCE OBSERVATIONS**

The inspector followed up on corrective actions taken by the licensee as a result of a violation issued on August 28, 2015. The violation pertained to a failure to have an authorized user (AU) sign and date a written directive (WD) before administering 5 millicuries of iodine-131 to a patient. As a corrective action, the licensee committed to revising its WD form to require that a second person independently verify that WDs are signed by an AU before an administration. Based on interviews of both CMC staff and management representatives and a review of several randomly selected WDs, the inspector confirmed that the licensee had implemented their corrective action. This violation is closed.

The inspector toured the nuclear medicine departments at both locations and interviewed nuclear medicine staff and management representatives. The inspector observed calibrated survey instrumentation, adequate shielding and radiation safety equipment for a nuclear medicine program, proper postings of imaging rooms and the hot laboratories, appropriate controls to assure adequate security of radioactive material, and the use of personal protective equipment and whole body and extremity dosimetry.

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Independence, MO 64057

REPORT NUMBER(S) 2017001

2. NRC/REGIONAL OFFICE

Region III  
U. S. Nuclear Regulatory Commission  
2443 Warrenville Road, Suite 210  
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5. DATE(S) OF INSPECTION

August 9, 2017

(Continued)

Nuclear medicine technologists demonstrated proper package receipt procedures, daily and weekly radiation level and contamination surveys of restricted areas, and daily dose calibrator constancy checks.

The inspector reviewed dose calibrator calibration records, a selection of WDs, results of surveys of packages received from a local radiopharmacy, sealed source physical inventory and leak test records, records of waste disposal, and personal dosimetry reports. The maximum whole body exposure for 2016 was 508 mrem, and the maximum extremity was 4,550 mrem. For 2017, the maximum whole body exposure was 178 mrem, and the maximum extremity was 1,940 mrem.

No violations of NRC requirements were identified.