

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  Mercy Hospital Springfield 1235 E Cherokee Street Springfield, MO 65804  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)  030-02285	4. LICENSE NUMBER(S)  24-00866-02	5. DATE(S) OF INSPECTION  August 6-8, 2019	

**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:

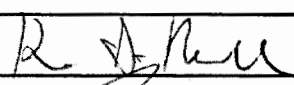
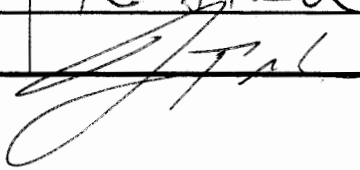
- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was 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		8/27/19
BRANCH CHIEF			8/30/19

**Docket File Information****SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

## 1. LICENSEE/LOCATION INSPECTED:

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1235 E Cherokee Street  
Springfield, MO 65804

REPORT NUMBER(S) 2019001

## 2. NRC/REGIONAL OFFICE

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

## 3. DOCKET NUMBER(S)

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## 4. LICENSE NUMBER(S)

24-00866-02

## 5. DATE(S) OF INSPECTION

August 6 - 8, 2019

## 6. INSPECTION PROCEDURES USED

87131 and 87132

## 7. INSPECTION FOCUS AREAS

All

**SUPPLEMENTAL INSPECTION INFORMATION**

## 1. PROGRAM CODE(S)

2230

## 2. PRIORITY

2

## 3. LICENSEE CONTACT

Nick Lanutti, RSO

## 4. TELEPHONE NUMBER

(417) 820-7704

☒ Main Office Inspection      Next Inspection Date: 08/06/2021☒ Field Office Inspection    Lebanon, MO; Branson, MO; Amb. Surgery Ctr☐ Temporary Job Site Inspection**PROGRAM SCOPE**

This was a routine, unannounced inspection of a very large medical facility that was authorized to possess and use byproduct material described in 10 CFR 35.100, 200, 300, 400, a cesium-137 instrument calibrator, a cesium-137 blood irradiator, an iridium-192 high dose rate remote afterloader (HDR), and yttrium-90 permitted by 10 CFR 35.1000. The licensee was authorized to use material at 5 locations of use in Springfield, MO and surrounding areas. This inspection focused on locations that had not been inspected during the last inspection conducted in 2017, which included 1 facility that was added as a new location of use for outpatient diagnostic procedures in 2018, and the licensee's HDR therapy program.

**Performance Observations**

The inspector toured 4 locations of use, including the main hospital and cancer center where HDR treatments were performed. Certified Nuclear Medicine Technologists (CNMTs) demonstrated and/or described package receipt and survey procedures, dose calibrator QA/QC, use of personal protective equipment when handling licensed material, use of whole body and extremity dosimetry, and security of licensed material. The inspector observed CNMTs perform patient injections.

The inspector interviewed a medical physicist (MP) and dosimetrist who described the licensee's HDR program. The inspector randomly selected several written directives for HDR procedures, and reviewed each pre- and post-treatment plan. The MP and dosimetrist demonstrated daily checks of the licensee's dedicated HDR treatment room and the HDR unit.

The inspector reviewed a random selection of records including dosimetry, radiopharmaceutical and HDR written directives, nuclear medicine department package receipt surveys, sealed source physical inventory and leak test results, survey meter calibration, and daily and weekly surveys for radiation levels and removable contamination.

No violations of NRC requirements were identified.