

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Bates County Memorial Hospital 615 W. Nursery Street Butler, MO 64730 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) 030-14114	4. LICENSE NUMBER(S) 24-18740-01	5. DATE(S) OF INSPECTION 8/9/17	

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:

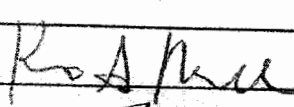
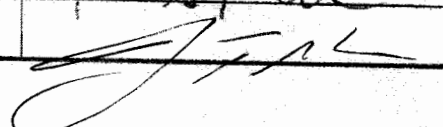
- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was 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		8/9/17
BRANCH CHIEF	Dan T. McCann		8/21/17

Docket File Information

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3. DOCKET NUMBER(S) 030-14114	4. LICENSE NUMBER(S) 24-18740-01	5. DATE(S) OF INSPECTION August 9, 2017
6. INSPECTION PROCEDURES USED 87131	7. INSPECTION FOCUS AREAS 03-01 - 03.07	

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 2120	2. PRIORITY 3	3. LICENSEE CONTACT James R. Bergh, M.D.	4. TELEPHONE NUMBER (660) 679-4135
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☒ Main Office Inspection Next Inspection Date: 08/09/2020

☐ Field Office Inspection _____

☐ Temporary Job Site Inspection _____

PROGRAM SCOPE

This was a routine, unannounced inspection of a 50-bed hospital located in Butler, Missouri. The licensee was authorized to use material described in 10 CFR Sections 35.100, 200, and 300. One full-time certified nuclear medicine technologist (CNMT) performed an average of three diagnostic studies per day in a department that had one imaging room and one hot lab. Diagnostic unit doses were received from a radiopharmacy located in Kansas City, Missouri. The licensee performed two iodine-131 therapy treatments for Graves disease since the last inspection conducted in 2015.

PERFORMANCE OBSERVATIONS

The inspector interviewed the CNMT and observed her perform package receipt surveys, and inject a patient while wearing personal protective equipment including lab coat, gloves, syringe shield, and whole body and extremity dosimetry. The CNMT also demonstrated how she performed daily surveys for radiation levels and weekly smears for contamination. The CNMT also performed a physical inventory of sealed sources, and discussed the procedure that was used to perform required leak tests.

The inspector reviewed dose calibrator calibration records, survey meter calibration records, the two written directives for both iodine-131 treatments issued since the last inspection, the results of annual audits that were conducted by the licensee's consultant, and dosimetry results for 2016 and 2017 to date. The CNMT's whole body exposure for 2016 was 200 mrem, and extremity was 1,140 mrem. For 2017 to date, the whole body was 50 mrem, and the extremity was 200 mrem.

Using a Canberra model MRAD213 calibrated on 2/17/17, the inspector performed independent surveys of the imaging room (0.02 - 0.05 mRem/hr), and hot lab (0.08 - 0.10 mRem/hr). Background levels were no greater than 0.05 mRem/hr.

No violations of NRC requirements were identified.