

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  Bothwell Regional Health Center 601 East 14th Street Sedalia, MO 65302-1706  REPORT NUMBER(S) 2016-001	2. NRC/REGIONAL OFFICE  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S)  030-10715	4. LICENSE NUMBER(S)  24-16275-01	5. DATE(S) OF INSPECTION  October 20, 2016

**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.

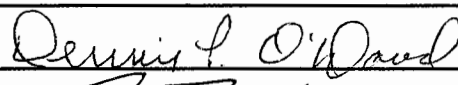
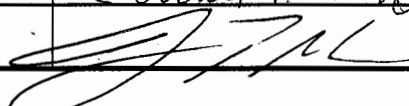
3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, to exercise discretion, were satisfied.

\_\_\_\_\_ 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	Dennis P. O'Dowd		10/20/2016
BRANCH CHIEF	Aaron T. McCraw		11/2/16

**Docket File Information**

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6. INSPECTION PROCEDURES USED  87131, 87132	7. INSPECTION FOCUS AREAS  03.01-03.07
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**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  02120	2. PRIORITY  3	3. LICENSEE CONTACT  Robert Wideman, CNMT, Chief NMT	4. TELEPHONE NUMBER  (660) 827-9536
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<input checked="" type="checkbox"/> Main Office Inspection	Next Inspection Date: 10/20/2019
<input type="checkbox"/> Field Office Inspection	
<input type="checkbox"/> Temporary Job Site Inspection	

**PROGRAM SCOPE**

This was a routine inspection of a 100-bed medical institution authorized for 10 CFR 35.100, 35.200, 35.300, and 35.400 (permanent seed implants) materials and uses at 601 East 14th Street, Sedalia, Missouri, and for 35.100 and 35.200 materials and uses at 3700 West 10th Street, Sedalia, Missouri. The licensee's Nuclear Medicine Department, with a staff of two full-time nuclear medicine technologists (NMTs), routinely conducted an average of 10 diagnostic studies per day, an average of one I-131 therapy dose (<30 mCi) per year, and an average of 12 Ra-223 Xofigo therapy administrations per year. Iodine-123 was administered for uptake studies and averaged three cases per month. No low dose brachytherapy procedures using I-125 or Pd-103 seeds for prostate implant therapies were performed since the last inspection. The licensee received unit doses from a local nuclear pharmacy as needed. All waste was held for decay-in-storage. On the day of this inspection, no licensed activities were scheduled at the W. 10th Street location, and therefore, that location was not inspected. Ten diagnostic studies (all cardiac) a week are typically performed at that location. PET studies, provided by a mobile PET service (under another licensed) are provided at the West 10th Street location every Wednesday.

**Performance Observations**

This inspection consisted of interviews with select licensee personnel; tour of the nuclear medicine department; independent measurements; and a review of select records. Three diagnostic studies were observed by the inspector during this inspection (one patient administration of Tc-99m sestamibi for a treadmill cardiac stress test, one resting stress, and one chemical stress test). In addition, the licensee's NMTs demonstrated/discussed: (1) survey meter use and calibrations; (2) package check-in procedures; (3) unit dosage prep and safe use; (4) wipe test counting; (5) waste handling; (6) sealed source inventories and leak tests; (7) routine security of licensed material; (8) dose calibrator tests; (9) quarterly radiation safety program audits; (10) contamination and other incidents (none); (11) RSC meetings; (12) HAZMAT training; and (13) dosimetry. All written directives since the last inspection were reviewed by the inspector and all were complete. The inspector performed independent and confirmatory radiation measurements which indicated results consistent with licensee survey records and postings. Personal dosimetry was observed being worn by the staff during the inspection. Dosimeters are exchanged on a bi-monthly basis. Dosimetry records reviewed indicate the following maximum annual exposures: for 2014, 202 mrem whole body (WB), 1810 mrem extremity; for 2015, 112 mrem WB, 1260 extremity; and for 2016 YTD, 127 mrem WB, 1280 mrem extremity (all <10% annual limit). No violations of NRC requirements were identified as a result of this inspection.