

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Lester E. Cox Medical Center
 3801 South National Avenue
 Springfield, MO 65807

REPORT NUMBER(S) 2014-001

2. NRC/REGIONAL OFFICE

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

3. DOCKET NUMBER(S)

030-09784

4. LICENSE NUMBER(S)

24-01143-06

5. DATE(S) OF INSPECTION

DECEMBER 17, 2014

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	Ryan Craffey		12/17/14
BRANCH CHIEF	Aaron McCraw		12/23/14

Docket File Information

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6. INSPECTION PROCEDURES USED 87131, 87132	7. INSPECTION FOCUS AREAS All
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 02240	2. PRIORITY 2	3. LICENSEE CONTACT Keith Hickey, Ph.D. - RSO	4. TELEPHONE NUMBER (417) 269-8935
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Main Office Inspection Next Inspection Date: December 2016

Field Office Inspection 3850 South National Avenue, Springfield, MO

Temporary Job Site Inspection _____

PROGRAM SCOPE

This was a routine inspection of a regional hospital authorized to use byproduct material under 10 CFR 35.100, 200, 300, 400, 600 and 1000 at its campus in Springfield, Missouri. At the time of the inspection, the licensee performed a comprehensive spectrum of diagnostic and therapeutic administrations of radiopharmaceuticals at the 3801 South National address, in addition to approximately 70 injections of Y-90 Sir-Spheres since beginning treatments in the fall of 2013. The licensee performed approximately 50 fractionated breast and gynecological HDR procedures and 80 temporary or permanent seed implant procedures annually at the 3850 South National address. The licensee also performed administrations of PET radiopharmaceuticals at the 3901 South Fremont address. The licensee retained the services of a consultant for nuclear medicine oversight, and maintained a quarterly radiation safety committee.

PERFORMANCE OBSERVATIONS

The inspector toured the facilities at 3801 and 3850 South National to evaluate the licensee's measures for materials security, hazard communication and exposure control. The inspector observed one fraction of an HDR treatment in addition to the preparation and administration of one bone scan and one I-131 whole body scan, as well as an after-hours HDR source exchange by the manufacturer. The inspector conducted independent and confirmatory surveys, and found no residual contamination or exposures to members of public in excess of regulatory limits. The licensee's nuclear medicine and international radiology staff demonstrated implementation of procedures for package receipt, waste handling, and administration of therapeutic radiopharmaceuticals and Sir-Spheres. The licensee's radiation oncology staff also demonstrated HDR spot checks and full calibrations, in addition to treatment planning and verification for HDR, LDR, and permanent implant brachytherapy.

The inspector reviewed the licensee's records for administration of byproduct material requiring a written directive, including numerous I-131 and Y-90 Sir-Sphere therapies, as well as a selection of LDR and permanent implant brachytherapy treatments performed since the last inspection. The inspector also reviewed a selection of nuclear medicine records, personnel dosimetry, quarterly consultant's audits, and RSC meeting minutes.

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