

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

<p>1. LICENSEE/LOCATION INSPECTED:</p> <p>Lester E. Cox Medical Center 1423 N. Jefferson Springfield, MO 65802</p> <p>REPORT NUMBER(S) 2018001</p>	<p>2. NRC/REGIONAL OFFICE</p> <p>Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352</p>
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<p>3. DOCKET NUMBER(S)</p> <p>030-09784</p>	<p>4. LICENSE NUMBER(S)</p> <p>24-01143-06</p>	<p>5. DATE(S) OF INSPECTION</p> <p style="text-align: center;">10/17/18</p>
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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):

- 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	<i>Kevin G. Null</i>	10/17/18
BRANCH CHIEF	Aaron T. McCraw	<i>Aaron T. McCraw</i> for ATM	11/5/18

Docket File Information

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3. DOCKET NUMBER(S) 030-09784	4. LICENSE NUMBER(S) 24-01143-06	5. DATE(S) OF INSPECTION October 17, 2018
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6. INSPECTION PROCEDURES USED 87131	7. INSPECTION FOCUS AREAS All
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 2230	2. PRIORITY 2	3. LICENSEE CONTACT Kenneth Wohlt	4. TELEPHONE NUMBER (417) 269-5309
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Main Office Inspection Next Inspection Date: 10/17/2020

Field Office Inspection 3801 and 3850 South National Ave.

Temporary Job Site Inspection _____

PROGRAM SCOPE

This was a routine, unannounced inspection of a large medical center that used material described in 10 CFR Part 35 for diagnostic studies, and radiopharmaceutical and sealed source therapeutic procedures. The licensee employed six full-time certified nuclear medicine technologists (CNMT) at 3801 South National Ave, where an average of 15 diagnostic studies were performed each day, and an average of five iodine-131 therapy, three yttrium-90, and one xofigo studies were done on a monthly basis. The nuclear medicine department included four imaging rooms, one stress lab, and one hot lab. At 3850 South National Ave., the licensee conducted sealed source therapy, including approximately 12 high dose rate remote (HDR) afterloader therapy procedures per week.

PERFORMANCE OBSERVATIONS

The inspector toured the nuclear medicine department located at 3801 South National Ave., and interviewed a random selection of CNMT's. The inspector observed staff members measure, prepare, and inject unit doses, perform QA of radiation measurement instrumentation, and demonstrate how package, daily, and weekly surveys were conducted. The inspector also interviewed the radiation safety officer, two medical physicists (MP), and observed the licensee perform an HDR treatment under the direct supervised of an authorized user and an MP. The inspector also observed an MP demonstrate the HDR treatment room interlock system, spot checks, and post-treatment surveys of the patient and HDR unit. The inspector observed another MP conduct a physical inventory of cesium-137 sealed sources authorized under 10 CFR Part 35.400. The inspector reviewed records pertaining to nuclear medicine package and area surveys, dosimetry for both nuclear medicine and therapy staff, and a random selection of radiopharmaceutical and sealed source therapy written directives.

The inspector also confirmed that the licensee had taken effective corrective actions for two violations issued during the last NRC inspection conducted in 2016. No repetitive issues or similar violations were identified. The inspector also performed independent surveys in the hot lab, imaging rooms, and areas adjacent to the HDR treatment room during a treatment.

No violations of NRC requirements were identified.