

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED: Lester E. Cox Medical Center 1423 N. Jefferson Springfield, MO 65802		2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region III 2443 Warrenville Road Suite 210 Lisle, Illinois 60532-4351	
REPORT 2006-001 &-002			
3. DOCKET NUMBER(S) 030-09784	4. LICENSEE NUMBER(S) 24-01143-06	5. DATE(S) OF INSPECTION June 6, 2006	

**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, NUREG-1600, to exercise discretion, were satisfied.

\_\_\_\_\_ Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(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. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.

(Violations and Corrective Actions)

**Licensee's Statement of Corrective Actions for Item 4, above.**

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	Deborah A. Piskura	<i>D. Piskura</i>	6/06/06

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## Docket File Information

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AND COMPLIANCE INSPECTION

1. LICENSEE <b>Lester E. Cox Medical Center</b> REPORT <b>2006-001 &amp; 2006-002</b>		2. NRC/REGIONAL OFFICE <b>Region III</b> <b>2443 Warrenville Road, Suite 210</b> <b>Lisle, IL 60532</b>	
3. DOCKET NUMBER(S) 030-09784	4. LICENSE NUMBER(S) 24-01143-06	5. DATE(S) OF INSPECTION June 6, 2006	
6. INSPECTION PROCEDURES USED 87130, 87131 and 87132		7. INSPECTION FOCUS AREAS 03.01, 03.02, 03.03, 03.04, 03.05, 03.06, 03.07, and 03.08	
<b>SUPPLEMENTAL INSPECTION INFORMATION</b>			
1. PROGRAM CODE(S) 02240	2. PRIORITY G 2	3. LICENSEE CONTACT John M. Pacyniak, Ph.D., RSO	4. TELEPHONE NUMBER 417.269.6115
<input checked="" type="checkbox"/> Main Office Inspection		Next Inspection Date: <u>June 2008</u>	
<input checked="" type="checkbox"/> Field <u>Lester E. Cox Medical Center-South</u>			
<input type="checkbox"/> Temporary Job Site			

## PROGRAM SCOPE

This licensee was a large medical center, authorized to use licensed material permitted by Sections 35.100, 35.200, 35.300, 35.400, and 35.600 (Ir-192 HDR unit) at five locations of use. The nuclear medicine departments were staffed with nine full-time technologists who collectively performed approximately 1000+ diagnostic nuclear medicine procedures per month. The licensee received unit doses from a licensed radiopharmacy. The licensee performed a full spectrum of nuclear diagnostic imaging studies. Typically, in a year the licensee administered 60 iodine-131 thyroid carcinoma therapies, 150 hyperthyroidism treatments and 100 whole body follow up studies. The hospital obtained its I-131 in capsule form only. The department administered 4-5 Sm-153 dosages annually for treatment of metastatic bone disease. In addition, the licensee administered 1-2 dosages of sodium phosphate P-32 for treatment of polycythemia vera. Occasionally the department administered Bextar and Zevalin treatments. The licensee retained the services of a consulting physicist to audit the radiation safety program on a quarterly basis.

The radiation therapy activities were performed by 3 medical physicists and three dosimetrists. Brachytherapy activities included I-125 permanent implants (70+ cases annually) and Cs-137 temporary gynecological implants (10 cases annually). The department possessed an HDR unit and administered approximately 60-70 patient treatments per year; the majority of these treatments were for bronchial and gynecological cancers.

This inspection consisted of interviews with licensee personnel, a review of selected records, tours of the nuclear medicine and radiation oncology departments, and independent measurements. The inspector observed licensee nuclear medicine personnel prepare, assay and administer several unit doses for various imaging procedures. The inspection included observations of dose calibrator QA checks, package receipts and surveys, and area surveys. The inspector also observed a medical physicist perform a physical inventory of the licensee's brachytherapy sources.