

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

## 1. LICENSEE/LOCATION INSPECTED:

St. Joseph Hospital  
Kirkwood, MO

## REPORT

## 2. NRC/REGIONAL OFFICE

U.S. Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road  
Suite 210  
Lisle, Illinois 60532-4351

## 3. DOCKET NUMBER(S)

03002368

## 4. LICENSEE NUMBER(S)

24-11858-01

## 5. DATE(S) OF INSPECTION

July 23, 2007

## 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

Deborah A. Piskura

7/27/07

**Docket File Information**  
**SAFETY INSPECTION REPORT**  
**AND COMPLIANCE INSPECTION**

1. LICENSEE <b>St. Joseph Hospital</b> <b>REPORT 2007-001</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) 030-02368		4. LICENSE NUMBER(S) 24-11858-01		5. DATE(S) OF INSPECTION July 27, 2007			
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) 02230		2. PRIORITY G 2		3. LICENSEE CONTACT Andre Strzembosz, M.D., RSO		4. TELEPHONE NUMBER 314-966-1500	
<input checked="" type="checkbox"/> Main Office Inspection						Next Inspection Date: July 2009	
<input type="checkbox"/> Field							
<input type="checkbox"/> Temporary Job Site							

**PROGRAM SCOPE**

This licensee was authorized to use licensed material permitted by Sections 35.100, 35.200, 35.300, 35.400, 35.600 (Ir-192 within an HDR unit).

The nuclear medicine department was staffed with 2 full-time technologists who performed approximately 100 diagnostic nuclear medicine procedures per month. The licensee received unit doses and bulk Tc-99m from a licensed radiopharmacy. The hospital performed a full spectrum of nuclear diagnostic imaging studies. Typically, in a year the hospital administered 20 I-131 thyroid carcinoma therapies, 15-20 hyperthyroidism treatments and 20 whole body CA follow up studies. The hospital obtained its I-131 in capsule form. The licensee retained the services of a consulting physicist who audited the radiation safety program on a quarterly basis and reported his findings to the RSC.

The radiation therapy activities were performed by one contract medical physicist and one contract dosimetrist. Brachytherapy activities were limited to occasional treatments utilizing an HDR unit owned by Midwest Brachytherapy (License No. 24-32280-07), a mobile HDR service licensee. The department maintained numerous cesium-137 brachytherapy sources in secure storage; these sources had not been used since 2002. The inspector discussed disposal/transfer options of these Cs-137 sources with the licensee since the licensee expressed it would not likely resume use of these sources. The department administered approximately 3-4 prostate implants using Pd-103 annually. HDR use was infrequent; typically 1-2 patient cases annually. All HDR patient treatments were administered by the attending oncologist, the medical physicist and a therapist (note that the physicist operated the controls to the HDR unit). Therapeutic beta radiopharmaceuticals were also administered in the therapy department; 1-2 cases annually.

This inspection consisted of interviews with licensee personnel, a review of select records, tours of the nuclear medicine and radiation oncology departments, and independent measurements. The inspector observed nuclear medicine personnel prepare, assay and administer one unit dose for a gall bladder imaging procedure. The inspection included observations of security of byproduct material, use of personnel monitoring, dose calibrator QA checks, and package receipts and surveys.