NRC FORM 591M PART 1 (10-2003) 10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:	2. NRC/REGIONAL OFFICE
St. Joseph Health Center 1000 Carondelet Drive Kansas City, Missouri 64114 REPORT 2007-001	REGION III US NUCLEAR REGULATORY COMMISSION 2443 WARRENVILLE ROAD, SUITE 210 LISLE, ILLINOIS 60532

3. DOCKET NUMBER(S)	4. LICENSEE NUMBER(S)	5. DATE(S) OF INSPECTION
030-02310	24-02704-01	October 15, 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)

10 CFR 35.63(d) requires that unless otherwise directed by the authorized user, a licensee may not use a dosage if the dosage ~~does not fall within~~ differs from the prescribed dosage by more than 20 percent. Contrary to the above, on at least three occasions as of 10/15/07, the licensee has given dosages that differ from the prescribed dosage by more than 20 percent. Specifically, while the prescribed dosage for a bone scan is 25 mCi Tc-99m Medronate, on 8/7/07, a licensee technologist gave a bone dosage of 30.2 mCi, a difference of 20.8 percent; on 9/5/07, a licensee technologist gave a bone dosage of 30.2 mCi, a difference of 20.8 percent; and on 10/9/07, a licensee gave a bone dosage of 30.4 mCi, a difference of 21.6 percent, and no authorized user gave directed that the dosages be given. As corrective action, the licensee will make a policy requiring that any dosage be adjusted within 20 percent of the prescribed dosage. In addition, the licensee will ask their physicist to review the dosages as part of the quarterly audit to ensure the policy is followed, and all Nuclear Medicine personnel will be trained on the policy.

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	Dennis Sowsley - Director		10/15/07
NRC INSPECTOR	Geoffrey M. Warren		10/15/07

NRC FORM 591M PART 3
(10-2003)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

Docket File Information
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE	2. NRC/REGIONAL OFFICE
St. Joseph Health Center REPORT NUMBER(S) 2007-001	**Region III**

3. DOCKET NUMBER(S)	4. LICENSE NUMBER(S)	5. DATE(S) OF INSPECTION
030-02310	24-02704-01	October 15, 2007

6. INSPECTION PROCEDURES USED	7. INSPECTION FOCUS AREAS
87131	03.01 - 03.08

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S)	2. PRIORITY	3. LICENSEE CONTACT	4. TELEPHONE NUMBER
02240	2	Patrick O'Toole, M.D., RSO	816-942-4400

[X] Main Office Inspection — Next Inspection Date: **Oct. 2009**

[ ] Field Office _____

[ ] Temporary Job Site _____

PROGRAM SCOPE

The licensee was a 300-bed hospital located in Kansas City, Missouri, which served the local area. Licensee had authorization to use byproduct materials under Sections 35.100, 35.200, and 35.300. While authorized to use iodine-125 as Iotrex under 35.1000, the licensee had not performed any such procedures. Licensed activities were conducted only at the facility identified on the license.

The nuclear medicine department was staffed with two full-time and two part-time nuclear medicine technologists. The licensee's nuclear medicine staff typically administered 160 diagnostic doses monthly. Doses were primarily technetium-99m for cardiac, bone, and other studies, as well as xenon-133 for lung scans. Doses were received as unit doses from a licensed radiopharmacy. Licensee performed approximately three whole-body scans monthly, two hyperthyroid treatments annually, and one thyroid carcinoma treatment annually using iodine-131, with the iodine-131 in capsule form. In addition, the licensee performed occasional therapies using phosphorus-32. All waste was held for decay-in-storage.

Performance Observations

The inspector was unable to observe any administrations of licensed material during the inspection. Licensee personnel demonstrated dose preparation, administration, and disposal, package receipt and return surveys, survey meter and wipe counter QC, dose calibrator constancy tests, xenon-133 and iodine-131 procedures, and daily and weekly contamination surveys. The inspector found no concerns with these activities. In addition, licensee personnel explained the procedures which would be followed for iodine-125 as Iotrex procedures under 35.1000. The inspector reviewed written directives for iodine-131 procedures, and found no issues. Interviews with licensee staff indicated adequate knowledge of radiation safety procedures and concepts. Surveys indicated appropriate radiation levels in restricted and unrestricted areas.