NRC FORM 591M PART 1
(1-2012)
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 NUMBER(S) 2012-001	Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352

3. DOCKET NUMBER(S)	4. LICENSE NUMBER(S)	5. DATE(S) OF INSPECTION
030-02310	24-02704-01	May 21, 2012

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 violations(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	Geoffrey M. Warren	GM Warren	5/21/12
BRANCH CHIEF	Tamara E. Bloomer	Ken Lambert for	6/8/12

NRC FORM 591M PART 3
(1-2012)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

Docket File Information

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6. INSPECTION PROCEDURES USED	7. INSPECTION FOCUS AREAS
87131	03.01 - 03.07

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S)	2. PRIORITY	3. LICENSEE CONTACT	4. TELEPHONE NUMBER
02120	3	Patrick O'Toole, M.D., RSO	(816) 942-4400

☑ Main Office Inspection Next Inspection Date: May 2015

☐ Field Office Inspection

☐ Temporary Job Site Inspection

PROGRAM SCOPE

The licensee was a 220-bed hospital located in Kansas City, Missouri, authorized to use byproduct materials in Sections 35.100, 35.200, and 35.300. At the main address of use, the licensee operated two nuclear medicine areas. Licensee personnel stated that activities at the 930 Carondelet Drive facility were limited to nuclear cardiology procedures.

The main nuclear medicine area was staffed with two full-time and one part-time technologists. These technologists typically administered approximately 240 diagnostic doses monthly and 15 to 20 iodine-131 doses quarterly, including whole body scans and hyperthyroid and thyroid cancer therapies, with the iodine in capsule form. In addition, the licensee performed occasional therapies using strontium-89. The diagnostic procedures were primarily gall bladder, gastric emptying, cardiac, and lung (xenon-133) studies. The department received unit doses and bulk technetium-99m MAA from a licensed nuclear pharmacy.

The second area was a cardiac PET area using a strontium-rubidium generator, staffed with three technologists who also worked at the 930 Carondelet Drive facility. These technologists administered approximately five doses daily; activities had resumed only two weeks earlier using the generator. Licensee personnel had been trained on, were aware of, and followed the manufacturer's procedures for daily QA of the generator and would report any issues to the manufacturer.

Performance Observations

The inspector observed one diagnostic administration of licensed material, including dose preparation and disposal, as well as package receipt surveys and wipes. Licensee personnel demonstrated dose calibrator constancy, well counter and survey meter QC, contamination surveys, and use of the rubidium generator, and described generator receipt surveys and QC and administration of therapy and additional diagnostic doses. The inspector noted no concerns with these activities. The inspector reviewed written directives for radiopharmaceutical therapies and identified no concerns. Dosimetry and survey records indicated no concerns with doses to radiation workers or the public. Interviews with licensee personnel indicated adequate knowledge of radiation safety concepts and procedures. Independent and confirmatory radiation measurements indicated results consistent with licensee survey records and postings.