

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:

North Kansas City Hospital  
2800 Clay Edwards Drive  
North Kansas City, MO 64116

REPORT NUMBER(S) 14-01

2. NRC/REGIONAL OFFICE

Region III  
U. S. Nuclear Regulatory Commission  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

3. DOCKET NUMBER(S)

030-13966

4. LICENSE NUMBER(S)

24-18628-01

5. DATE(S) OF INSPECTION

March 12, 2014

**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:


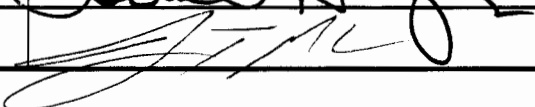
- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was 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	Robert P. Hays		3/12/14
BRANCH CHIEF	Aaron T. McCraw		4/4/14

## Docket File Information

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## 6. INSPECTION PROCEDURES USED

87131, 87132

## 7. INSPECTION FOCUS AREAS

03.01-03.07

## SUPPLEMENTAL INSPECTION INFORMATION

## 1. PROGRAM CODE(S)

02230

## 2. PRIORITY

2

## 3. LICENSEE CONTACT

Marty Richman, RSO

## 4. TELEPHONE NUMBER

(816) 691-5343

- ☐ Main Office Inspection      Next Inspection Date: 03/14/2016
- ☒ Field Office Inspection    2750, 2790 C. Ed. Dr., and 9501 N. Oak Tfwy
- ☐ Temporary Job Site Inspection

## PROGRAM SCOPE

The licensee was a medical institution authorized by the license to use any byproduct material as needed, permitted by 10 CFR 35.100, 35.200, 35.300 (not to exceed 1 Ci of I-131), 35.400, and 35.600 using a GammaMed Plus 3/24 HDR Remote Afterloader at the locations specified on the license. The previous inspection occurring on February 28, 2012, included reviews of the licensee's HDR, nuclear medicine program, and manual brachytherapy procedures permitted by 10 CFR 35.400, with no violations or concerns identified. Since the previous inspection, the license has added a PET facility. This inspection focused on the licensee's HDR Remote Afterloader radiation safety program, the new PET facility and the authorized location at 9501 North Oak Trafficway.

At Medical Imaging, 9501 North Oak Trafficway, the licensee performs nuclear medicine studies only on Mondays and Tuesdays each week. No inspection was completed at the location since no nuclear medicine technologist was onsite at the time of the attempted inspection on Wednesday, March 12.

The licensee's HDR modality has been decommissioned and inactive due to ongoing remodeling construction in the oncology department. The GammaMed Remote Afterloader was returned to the vendor. A discussion with the RSO pertaining to the future of HDR procedures determined that hospital management will decide if HDR procedures will resume after all construction is completed.

The licensee's PET/CT facility at 2790 Clay Edwards Drive averages 5-6 patient studies each weekday with a total of three nuclear medicine technologists. The licensee also utilizes a Rb-82 generator, exchanged once a month, for myocardial perfusion PET imaging. PET/CT licensed procedures were initiated on December 10, 2013. The licensee's Rb-82 generator elutions, assays, and procedures are monitored online each day of use by the vendor.

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## Performance Observations

During the inspection, the licensee's PET staff demonstrated/discussed: (1) survey instruments and required surveys; (2) package receipt and check-in procedures; (3) wipe test counting; (4) unit dose and safe handling procedures; (5) strontium-82/85 breakthrough tests; (6) rubidium-82 generator procedures; (7) rubidium-82 assay procedures; (8) waste handling and disposal calculations; (9) security and storage of licensed material; (10) minor contamination events (none); (11) initial staff training for use of the rubidium-82 generator; and (12) HAZMAT training (12/2013).

The inspector performed independent and confirmatory radiation measurements, which indicated results consistent with licensee survey records and postings.