

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

## 1. LICENSEE/LOCATION INSPECTED:

Nuclear Diagnosis, Inc.

P.O. Box 3371

Springfield, MO 65808

*Aurora Hospital & Carver City Area Hospital*

REPORT NUMBER(S) 2019-001

## 2. NRC/REGIONAL OFFICE

Region III

U. S. Nuclear Regulatory Commission

2443 Warrenville Road, Suite 210

Lisle, IL 60532-4352

## 3. DOCKET NUMBER(S)

030-12966

## 4. LICENSE NUMBER(S)

24-17561-01

## 5. DATE(S) OF INSPECTION

*8/9/19*

## 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             | Kevin G. Null          | <i>K. G. Null</i>      | <i>8/9/19</i>  |
| BRANCH CHIEF              | <i>Aaron T. McCraw</i> | <i>Aaron T. McCraw</i> | <i>8/22/19</i> |

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

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|---|---|---|--|
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| 3. DOCKET NUMBER(S)<br><br>030-12966  | 4. LICENSE NUMBER(S)<br><br>24-17561-01 | 5. DATE(S) OF INSPECTION<br><br>August 9, 2019  |  |
| 6. INSPECTION PROCEDURES USED<br><br>87130  | 7. INSPECTION FOCUS AREAS<br><br>All    |   |  |

**SUPPLEMENTAL INSPECTION INFORMATION**

|                                |                      |   |   |
|--------------------------------|----------------------|---|---|
| 1. PROGRAM CODE(S)<br><br>2220 | 2. PRIORITY<br><br>3 | 3. LICENSEE CONTACT<br><br>Charles Hillis, Sr., CNMT, RSO | 4. TELEPHONE NUMBER<br><br>(417) 831-6520 |
|--------------------------------|----------------------|---|---|

☐ Main Office Inspection      Next Inspection Date: 08/09/2022

☒ Field Office Inspection      Mercy Hospital Aurora & Carroll Cty. Hospital

☐ Temporary Job Site Inspection      \_\_\_\_\_

**PROGRAM SCOPE**

This was a routine, unannounced inspection of a licensee that provided diagnostic nuclear medicine services described in 10 CFR Part 35, sections 35.100 and 35.200, to 9 small hospitals located in southwest and west Missouri. Each location was specifically listed on the license as a location of use. The licensee was also authorized to use material described in 10 CFR Part 35, sections 35.100 and 35.200, at temporary job sites in states where the NRC has jurisdiction. At the time of the inspection the licensee did not have any clients at temporary job sites. The licensee used unit doses at each location of use. Unit doses were delivered by local radiopharmacies. Each location of use had an imaging camera and hot lab area that was secured by use of a keyed lock or key pad, and was staffed by a full-time certified nuclear medicine technologist (CNMT). The licensee employed a total of 9 CNMT's. The RSO conducted a radiation protection program audit at each location 2 times per year.

**Performance Observations**

The inspector interviewed the CNMT's at the Mercy Hospital and Carroll County Memorial Hospital locations, toured the imaging and hot lab areas at both facilities, and observed security for deliveries of radiopharmaceuticals and sealed calibration and reference sources. The CNMT's described and/or demonstrated radioactive material package check-in and survey procedures, daily and weekly area surveys for radiation levels and removable contamination, sealed leak tests and physical inventory, use of personal dosimetry, lab coats, and gloves when handling licensed material, daily dose calibrator constancy checks, and radioactive waste management. Both CNMT's demonstrated an adequate level of knowledge of radiation safety practices and principles.

The inspector reviewed records/procedures pertaining to personal dosimetry (whole body and extremity), sealed source leak test results, semi-annual physical inventory, emergency procedures, dose calibrator QA/QC, and annual survey meter calibration.

No violations of NRC requirements were identified.

*Handwritten:* JATM 8/22/19