

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  Nuclear Diagnosis, Inc. P. O. Box 3371 Springfield, MO 65808  REPORT NUMBER(S) 12-01		2. NRC/REGIONAL OFFICE  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S)  030-12966		4. LICENSE NUMBER(S)  24-17561-01	5. DATE(S) OF INSPECTION  September 12, 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:

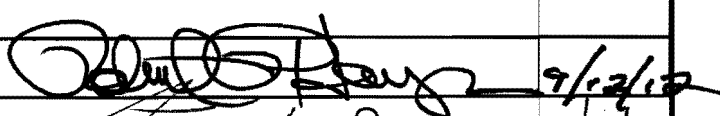
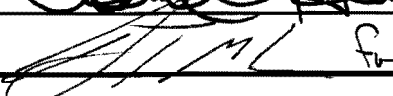
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is 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		9/12/12
BRANCH CHIEF	Tamara E. Bloomer		9/20/12

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:

Nuclear Diagnosis, Inc.  
P. O. Box 3371  
Springfield, MO 65808

REPORT NUMBER(S) 12-01

2. NRC/REGIONAL OFFICE

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

3. DOCKET NUMBER(S)

030-12966

4. LICENSE NUMBER(S)

24-17561-01

5. DATE(S) OF INSPECTION

September 12, 2012

(Continued)

**Performance Observations**

During the inspections, the licensee's NMT at Monett, MO and NMT Manager demonstrated/discussed as applicable: (1) survey instruments and required surveys; (2) package receipt and check-in procedures; (3) wipe test counting; (4) DOT shipping requirements and HAZMAT training (December 2011); (5) unit dose preparation, safe handling, and assay procedures; (6) waste storage and handling; (7) sealed source inventories and leak tests; (8) security and storage of licensed material; (9) radiation safety program audits; (10) dosimetry [ $< 10\%$  of annual regulatory limit at each location]; and (10) any contamination events (none since previous inspection).

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

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

1. LICENSEE/LOCATION INSPECTED:  Nuclear Diagnosis, Inc. P. O. Box 3371 Springfield, MO 65808  REPORT NUMBER(S) 12-01	2. NRC/REGIONAL OFFICE  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
-----------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------

3. DOCKET NUMBER(S)  030-12966	4. LICENSE NUMBER(S)  24-17561-01	5. DATE(S) OF INSPECTION  September 12, 2012
--------------------------------------	-----------------------------------------	----------------------------------------------------

6. INSPECTION PROCEDURES USED  87130	7. INSPECTION FOCUS AREAS  03.01-03.07
--------------------------------------------	----------------------------------------------

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  2220	2. PRIORITY  3	3. LICENSEE CONTACT  Larry Albaugh, NMT Manager	4. TELEPHONE NUMBER  (417) 880-5032
--------------------------------	----------------------	-------------------------------------------------------	-------------------------------------------

- Main Office Inspection                      Next Inspection Date: 09/11/2015  
 Field Office Inspection    Cox-Monett Hospital, Monett, MO  
 Temporary Job Site Inspection

**PROGRAM SCOPE**

The licensee was authorized for mobile medical service with authorization by the license to use byproduct materials for diagnostic and therapeutic medical procedures under 10 CFR 35.100, 35.200, and 35.300, at nine locations specified on the license and temporary job sites of medical care facilities where NRC has jurisdiction. The licensee currently is using licensed material only at locations specified on the license. The inspection reviewed radiation safety programs at the licensee's facilities located at Monett, MO and Springfield, MO. An inspection was attempted at Aurora, MO, however, licensed activities were conducted only on Tuesdays and Thursdays each week.

At Monett, MO the licensee is authorized for 10 CFR 35.100, and 35.200 procedures only. The licensee's Nuclear Medicine Department routinely conducts an average of 2-4 diagnostic patient studies with one nuclear medicine technologist (NMT). Patient studies are regularly conducted Monday-Thursday, and Friday, if needed. The licensee receives unit doses from a Springfield, MO nuclear pharmacy which are delivered to the licensee's Mt. Vernon, MO facility and transported from Mt. Vernon to Monett by the NMT. All waste was either held for decay-in-storage (DIS) or transported back to Mt. Vernon as limited quantity shipments. The licensee does not use a dose calibrator at the Monett, MO facility, but uses the licensee's Syntac system to calculate-assay the activity of the unit dose prior to injection.

At the Springfield, MO facility, no patient studies are performed. The location is used periodically to receive Tc-99m unit doses from a Springfield, MO nuclear pharmacy as ordered by the NMT Manager. The facility serves as a convenient location for the nuclear pharmacy to deliver unit doses, instead of transporting the unit doses to the locations authorized on the license. The unit doses are ordered when the NMT Manager will be doing the patient studies at one of the authorized locations and are subsequently transported by the NMT Manager to the location of use.

Performance Observations Continued on Page 2