

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
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3. DOCKET NUMBER(S) 030-12966	4. LICENSE NUMBER(S) 24-17561-01	5. DATE(S) OF INSPECTION September 12, 2012
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6. INSPECTION PROCEDURES USED 87130	7. INSPECTION FOCUS AREAS 03.01-03.07
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SUPPLEMENTAL INSPECTION INFORMATION

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