

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

## 1. LICENSEE/LOCATION INSPECTED:

Cardiovascular Medicine  
1531 West 32nd Street  
Suite 208  
Joplin, MO 64804

## 2. NRC/REGIONAL OFFICE

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

REPORT NUMBER(S) 2016-001

## 3. DOCKET NUMBER(S)

030-34915

## 4. LICENSE NUMBER(S)

24-32149-01

## 5. DATE(S) OF INSPECTION

03/29/16, with in-office  
review through 04/26/16

## 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:

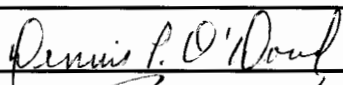
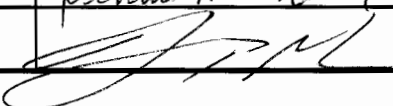
- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was 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	Dennis P. O'Dowd		5/13/16
BRANCH CHIEF	Aaron T. McCraw		5/13/16

(07-2012)  
10 CFR 2.201**Docket File Information****SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  Cardiovascular Medicine 1531 West 32nd Street Suite 208 Joplin, MO 64804  REPORT NUMBER(S) 2016-001		2. NRC/REGIONAL OFFICE  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S)  030-34915	4. LICENSE NUMBER(S)  24-32149-01	5. DATE(S) OF INSPECTION  03/29/16, with in-office review through 04/26/16	
6. INSPECTION PROCEDURES USED  87131	7. INSPECTION FOCUS AREAS  03.01-03.07		

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  02121	2. PRIORITY  5	3. LICENSEE CONTACT  Clay Joyner, NMT	4. TELEPHONE NUMBER  (417) 623-6343
---------------------------------	----------------------	---	---

☒ Main Office Inspection      Next Inspection Date: 03/29/2021

☐ Field Office Inspection

☐ Temporary Job Site Inspection

**PROGRAM SCOPE**

This was a routine unannounced inspection of a cardiology clinic located in Joplin, Missouri, authorized by the license to use byproduct material permitted by 10 CFR 35.100 and 35.200. Licensed activities were conducted in the nuclear medicine suite at the location specified on the license. The nuclear medicine department was staffed with one nuclear medicine technologist (NMT). The NMT routinely conducted 3 - 4 scheduled cardiac studies (rest and stress) on Mondays and Wednesdays each week. The licensee received unit doses as ordered from a local licensed nuclear pharmacy. All waste was held for decay-in-storage (DIS) or returned to the nuclear pharmacy as a limited quantity shipment.

**PERFORMANCE OBSERVATIONS**

This inspection consisted of interviews with select licensee personnel; tour of the nuclear medicine department; independent measurements; and a review of select records. No administrations of licensed material were performed during the inspection. During the inspection with in-office review, the licensee's staff discussed the following: (1) unit dose prep and safe use; (2) package receipt and return procedures; (3) wipe test counting; (4) dose calibrator tests; (6) security of licensed materials; (7) radiation safety program reviews and periodic training (including DOT Hazmat training); (8) surveys (i.e., daily, weekly); (9) sealed source inventory; (10) waste handling and disposal procedures; (11) contamination events/other incidents (none); (12) dosimetry (< 10% of annual regulatory limits). An outside consultant performed quarterly program audits that appear to be adequate to maintain program compliance. Licensed material was observed as adequately secured during the inspection and was not readily accessible to members of the general public. Survey meters were determined to be properly calibrated. Independent measurements taken did not indicate readings in excess of 10 CFR Part 20 limits in restricted or unrestricted areas, and were consistent with licensee survey records and postings. Personal dosimetry records reviewed for the period from 2011 to YTD 2015 did not indicate whole body and extremity exposures approaching 10 CFR Part 20 limits.

No violations were identified during this inspection.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
2443 Warrenville Road, Suite 210  
Lisle, Illinois 60532-4352

**TELEFAX TRANSMITTAL**

DATE: 05/13/2016 NUMBER OF PAGES: *(including this page)* 2 FAX NUMBER: (417) 623-6424

SEND TO: Clay Joyner / Eugene Langevin, M.D., / James C. Clouse, D.O., Radiation Safety Officer

LOCATION: Cardiovascular Medicine

FROM: *(SENDER)* Dennis P. O'Dowd, Health Physicist, U.S. Nuclear Regulatory Commission, Region III, DNMS, MIB

TELEPHONE NUMBER: (630) 829-9573 FAX NUMBER: (630) 515-1259

**If you do not receive the complete fax transmittal, please contact the sender as soon as possible at the telephone number provided above.**

Transmitted herein is NRC Form 591, Part 1, "Safety Inspection Report and Compliance Inspection," documenting the inspection of your licensed activities on March 29, 2016, with in-office review through April 26, 2016. Should you have any questions regarding this or any related matter, please do not hesitate to contact me.

Thank you for your cooperation during this inspection.

**NOTICE**

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by telephone and return the original to the above address, by U.S. Mail. Thank you.