

NRC FORM 591 M PART 1
(06-2010)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Mid-Michigan Cardiology Associates, P.L.C.
1165 S. Linden Road
Flint, MI 48532

2. NRC/REGIONAL OFFICE

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

REPORT NUMBER(S): 10-01

3. DOCKET NUMBER(S)
030-33371

4. LICENSEE NUMBER(S)
21-26540-01

5. DATE(S) OF INSPECTION
December 14, 2010

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:

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1. Based on the inspection findings, no violations were identified.

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2. Previous violation(s) closed.

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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, NUREG-1600, to exercise discretion, were satisfied

_____ Non-cited violation(s) were discussed involving the following requirement(s):

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4. During this inspection certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11

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	Andrew M. Bramnik	<i>Andrew M. Bramnik</i>	12/21/2010
BRANCH CHIEF	Tamara E. Bloomer	<i>Tamara E. Bloomer</i>	12/21/10

Docket File Information
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE Mid-Michigan Cardiology Associates, P.L.C.	2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission, Region III 2443 Warrenville Road, Suite 210 Lisle, Illinois 60532
REPORT NUMBER(S) 10-01	

3. DOCKET NUMBER(S) 030-33371	4. LICENSEE NUMBER(S) 21-26540-01	5. DATE(S) OF INSPECTION December 14, 2010
6. INSPECTION PROCEDURES 87130	7. INSPECTION FOCUS AREAS 03.01 – 03.07	

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM 2201	2. PRIORITY 5	3. LICENSEE CONTACT E. J. Raj, M.D., RSO	4. TELEPHONE NUMBER 810-732-5400
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- ☒ Main Office Inspection
☐ Field Office Inspection
☐ Temporary Job Site Inspection

Next Inspection Date: December 2015

PROGRAM SCOPE

The licensee is a private clinic performing approximately 10 diagnostic nuclear medicine procedures per day. Two part-time nuclear medicine technologists currently perform all patient procedures Monday through Thursday. The licensee obtains licensed material as unit doses from an area nuclear pharmacy, and does not use xenon-133, bulk doses, or molybdenum/technetium generators. The licensee performed cardiac studies, with occasional MUGA scans. The licensee is not currently authorized to perform or administer therapeutic doses.

Performance Observations

The inspectors observed one resting dose and one stress dose of technetium-99m being administered, as well as one package of unit doses being delivered and checked-in. These activities in combination with interviews of available staff revealed an adequate level of understanding of emergency and material handling procedures and techniques. Dose calibrator constancy checks, package receipt, daily surveys, and waste handling and disposal procedures were successfully demonstrated. An outside consultant performs quarterly program audits that appear to adequately oversee licensed activities.

Licensed material was observed as adequately secured during the review and was not readily accessible to members of the general public. A survey meter was found to be calibrated and operational, and performed well in side-by-side comparison with an NRC instrument.

Independent measurements taken did not indicate readings in excess of Title 10 of the Code of Federal Regulations (10 CFR) Part 20 limits in restricted or unrestricted areas. Personal whole body and extremity dosimetry was observed being worn by the staff during the inspection, and records did not indicate doses in excess of 10 CFR Part 20 limits. Dosimetry records indicated maximum whole body and extremity readings for 2009 of 199 millirem (mrem) and 540 mrem, respectively. 2010 year-to-date maximum whole body and extremity readings were 167 mrem and 620 mrem, respectively.

No violations were identified during this inspection.

KRP