

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:

The Cardiac Institute  
d/b/a Michigan Heart & Vascular Specialists  
560 West Mitchell, Suite 400  
Petoskey, Michigan 49770

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)

030-35824

4. LICENSE NUMBER(S)

21-32345-01

5. DATE(S) OF INSPECTION

June 27, 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:

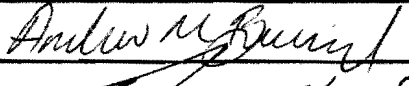
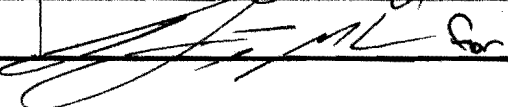
- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was 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	Andrew M. Bramnik		6/27/12
BRANCH CHIEF	Hironori Petroski		7/10/12

**Docket File Information**

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6. INSPECTION PROCEDURES USED

87130

7. INSPECTION FOCUS AREAS

03.01 - 03.07

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)

02121

2. PRIORITY

5

3. LICENSEE CONTACT

James Carson, CNMT and RSO

4. TELEPHONE NUMBER

(231) 487-2490

☒ Main Office Inspection

Next Inspection Date: 06/27/2017

☐ Field Office Inspection

☐ Temporary Job Site Inspection

**PROGRAM SCOPE**

This was a routine inspection of a cardiology clinic that performed approximately 40 diagnostic nuclear medicine procedures per month. Two full time and two part time nuclear medicine technologists performed all patient procedures Mondays through Fridays. The licensee obtained unit doses of licensed material from a nuclear pharmacy in Traverse City, MI, and did not use bulk doses or molybdenum/technetium generators. The licensee performed exclusively cardiac studies using technetium-99m, and was not authorized to administer therapeutic doses of licensed material.

**PERFORMANCE OBSERVATIONS**

Interviews of available staff revealed an adequate level of understanding of emergency and material handling procedures and techniques. The licensee successfully demonstrated dose calibrator constancy checks, package receipt, daily surveys, and waste handling and disposal procedures. The inspector confirmed that these activities were successfully completed by reviewing selected records, and verified that the licensee's technologist was familiar with the definition of a medical event. A contract physicist performed quarterly program audits that were adequate to oversee the program.

Licensed material was adequately secured and not readily accessible to members of the general public. The licensee possessed multiple radiation survey meters that were calibrated, operational, and performed comparably to readings from an NRC survey meter. Personal whole body and extremity dosimetry badges were 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 that the highest annual whole body and extremity readings since the previous inspection were 412 millirem (mrem) and 1000 mrem, respectively.

No violations were identified during this inspection.