

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Beaumont Michigan Heart Group 4600 Investment Dr. Troy, MI 48098 REPORT NUMBER(S) 2019-001		2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S) 030-32699	4. LICENSE NUMBER(S) 21-26392-01	5. DATE(S) OF INSPECTION 2/15/19	

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	Kevin G. Null	<i>K. G. Null</i>	2/15/19
BRANCH CHIEF	Aaron T. McCraw	<i>A. T. McCraw</i> for ATM	2/27/19

Docket File Information

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3. DOCKET NUMBER(S) 030-32699	4. LICENSE NUMBER(S) 21-26392-01	5. DATE(S) OF INSPECTION February 15, 2019	
6. INSPECTION PROCEDURES USED 87130	7. INSPECTION FOCUS AREAS All		

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 02201	2. PRIORITY 5	3. LICENSEE CONTACT David Cragg, M.D.	4. TELEPHONE NUMBER (248) 267-5050
<input checked="" type="checkbox"/> Main Office Inspection Next Inspection Date: 02/15/2024			
<input type="checkbox"/> Field Office Inspection _____			
<input type="checkbox"/> Temporary Job Site Inspection _____			

PROGRAM SCOPE

This was a routine, unannounced inspection of a small cardiac clinic that was authorized to use material described in 10 CFR 35.100 and 200. The licensee performed only cardiac imaging studies using unit doses of technetium-99m (Tc-99m) purchased from a local radiopharmacy. The licensee was part of the Beaumont health care system and employed a total of 4 part-time certified nuclear medicine technologists (CNMT's). Each CNMT rotated through several Beaumont cardiac clinics located throughout the area. An average of 7 nuclear cardiac imaging studies were conducted each day at this location. The department included 1 hot lab and 2 imaging rooms. The licensee was planning to decommission one of the imaging rooms. The Beaumont health care system employed a medical physics technician (MPT) who conducted quarterly audits of licensed activities conducted under this license. The MPT was present for this inspection. A second location of use in Novi, Michigan, was authorized on this license. Licensed material was used at the Novi location only once a week on Tuesdays.

Performance Observations

The inspector toured the nuclear medicine department and interviewed the CNMT and the MPT. The inspector noted access control of the hot lab and provisions for security after normal working hours. The CNMT described how radioactive material packages were received and surveyed for radiation levels and contamination. The inspector observed the CNMT prepare, measure, and inject 2 units doses of Tc-99m. The inspector noted that the CNMT wore appropriate protective clothing, including whole body and extremity dosimetry, and used syringe shields to keep exposure ALARA. The MPT described the quarterly audit process, including the types of things that she reviewed and observed during the process.

The inspector reviewed a random selection of quarterly audit reports, dosimetry reports, package and area survey records, survey meter calibration records, waste disposal records, and records of sealed source leak tests and physical inventory. The inspector conducted independent surveys of the imaging room and hot lab. No radiation levels above a background level of 0.03-0.05 mrem per hour were observed.

No violations of NRC requirements were identified.