

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Henry Ford Allegiance Health
205 N. East Avenue
Jackson, MI 49201

REPORT NUMBER(S) 17001

2. NRC/REGIONAL OFFICE

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

3. DOCKET NUMBER(S)

030-01990

4. LICENSE NUMBER(S)

21-00258-06

5. DATE(S) OF INSPECTION

February 27~~th~~th 2017

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:

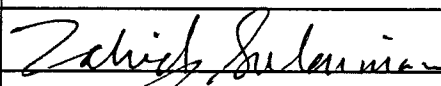

- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is 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	Zahid Sulaiman, Health Physicist		2/28/2017
BRANCH CHIEF	Aaron T. McCraw, Chief, MIB		3/16/17

Docket File Information

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<p>3. DOCKET NUMBER(S)</p> <p>030-01990</p>	<p>4. LICENSE NUMBER(S)</p> <p>21-00258-06</p>	<p>5. DATE(S) OF INSPECTION</p> <p>February 27 & 28, 2017</p>
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<p>6. INSPECTION PROCEDURES USED</p> <p>87131, 87132</p>	<p>7. INSPECTION FOCUS AREAS</p> <p>03.01 - 03.07</p>
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SUPPLEMENTAL INSPECTION INFORMATION

<p>1. PROGRAM CODE(S)</p> <p>02120</p>	<p>2. PRIORITY</p> <p>3</p>	<p>3. LICENSEE CONTACT</p> <p>Amy Helton, Imaging Clinical Mgr</p>	<p>4. TELEPHONE NUMBER</p> <p>(517) 205-5164</p>
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Main Office Inspection Next Inspection Date: 02/27/2020

Field Office Inspection Michigan Heart Clinic, 309 Page Ave.

Temporary Job Site Inspection _____

PROGRAM SCOPE

This was a routine inspection of a 440-bed hospital that was authorized to use licensed materials under 10 CFR 35.100, 35.200, and 35.300. The nuclear medicine department at the main hospital was staffed with four full-time nuclear medicine technologists (NMT) and two students who performed approximately 250 diagnostic procedures monthly, primarily bone scans, cardiac stress tests, HIDA, gastric emptyings, and lung scans using Xe-133 or DTPA. The licensee also performed approximately 40 iodine-131 (I-131) hyperthyroid and cancer therapies annually. The nuclear medicine department at Michigan Heart Clinic was staffed with one full-time and one part-time NMTs who performed approximately 100 cardiac stress tests only per month. The licensee received unit doses, bulk Tc-99m, and I-131 in capsule form from a licensed radiopharmacy. The radiation oncology department was staffed with one physicist, two oncologists, and two dosimetrists. The licensee had not performed any manual brachytherapy procedures using I-125 since the last inspection. The licensee's 35.400 authorization was removed from the license in February 11, 2015.

Performance Observations

The inspection consisted of interviews with select licensee personnel; review of select records; tours of the nuclear medicine and oncology departments; and independent measurements. The inspector observed administration of Tc-99m doses to patients for a HIDA and a cardiac stress test. The inspector: (1) observed the NMT conduct a physical inventory of sealed sources, and all sources were accounted for; (2) had the NMT demonstrate the dose calibrator constancy check, package receiving and check-in procedures, the end of the day daily area surveys and weekly wipe test, and proper handling of radioactive waste and disposal procedures. The inspector reviewed 15 written directives for I-131 diagnostic or therapy procedures, with no issues noted. The inspector reviewed the following records: radiation safety committee minutes, quarterly program audits conducted by an outside consultant, package receipts, waste disposal records, DOT Hazmat training, linearity and accuracy of the dose calibrator, and sealed source leak tests. The inspector reviewed dosimetry records for 2014, 2015, and 2016 indicating the maximum annual dose to be 329 mrem - DDE, and 1169 mrem - SDE. The inspector reviewed the oncology department final area survey and wipe test report, with no issues noted. The inspector performed independent radiation measurements in each functional area that were consistent with licensee survey records and postings.

No violations of NRC requirements were identified during this inspection.