

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

<p>1. LICENSEE/LOCATION INSPECTED:</p> <p>Mercy Hospital Cadillac 400 Hobart Street Cadillac, MI 49601</p> <p>REPORT NUMBER(S) 03002088/2014001</p>	<p>2. NRC/REGIONAL OFFICE</p> <p>Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352</p>	
<p>3. DOCKET NUMBER(S)</p> <p>030-02088</p>	<p>4. LICENSE NUMBER(S)</p> <p>21-10717-01</p>	<p>5. DATE(S) OF INSPECTION</p> <p>06/11/2014</p>

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:

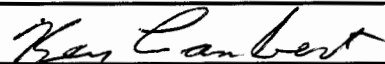
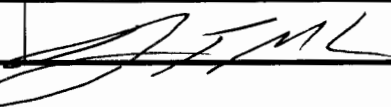
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is 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	Ken Lambert		6/23/14
BRANCH CHIEF	Aaron T. McCraw		6/24/14

Docket File Information
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Mercy Hospital Cadillac 400 Hobart Street Cadillac, MI 49601 REPORT NUMBER(S) 03002088/2014001	2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
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3. DOCKET NUMBER(S) 030-02088	4. LICENSE NUMBER(S) 21-10717-01	5. DATE(S) OF INSPECTION 06/11/2014
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6. INSPECTION PROCEDURES USED 87131	7. INSPECTION FOCUS AREAS 03.01 - 03.09
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 2120	2. PRIORITY 3	3. LICENSEE CONTACT Steven Klegman, D.O., RSO	4. TELEPHONE NUMBER (231) 876-7200
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Main Office Inspection Next Inspection Date: 06/11/2017

Field Office Inspection _____

Temporary Job Site Inspection _____

PROGRAM SCOPE

This was a routine inspection of a small community hospital authorized to use licensed radioactive materials under 10 CFR 35.100, 35.200, and 35.400. The licensee employed 2 FT and 2 PT technologists who performed 20-30 cardiac stress tests per week, and 15-20 bone, HIDA, gastric emptying, and lung scans per week. The licensee also performed 1-2 I-123 thyroid uptake tests per month. The licensee received unit dose from a local nuclear pharmacy and a 25 millicuries bulk dose of Tc-99m daily. The licensee contracted with a health physics consultant who performed quarterly audits of the radiation safety program. Radiation therapy activities were limited to permanent prostate seed implants using Pd-102 or I-125. Staff from the radiation oncology program at Munson Medical Center (NRC License No. 21-08317-01) performed the implants at the licensee's facility. The licensee administered 5-8 implants per year. All records for the seed implants are kept at Munson Medical Center including the written directive and pre and post treatment plans.

OBSERVATIONS AND FINDINGS

Licensed material was observed adequately secured within the hot lab during the inspection and was not readily accessible to members of the general public. Interviews conducted with the technologists revealed an adequate level of understanding of radiation safety practices and emergency procedures. The inspector reviewed dose calibrator daily checks, quarterly linearity and annual accuracy checks, package receipt surveys, daily and weekly surveys, waste handling and disposal records, and radiation safety committee meeting minutes. Licensee staff demonstrated daily dose calibrator checks, well counter, and daily and weekly surveys. The inspector observed an injection of Tc-99m, and a package receipt survey. The licensee exchanged badges on a quarterly basis and used a NVLAP approved vendor. Records reviewed indicated that the maximum exposures were 130 millirem (mrem) deep-dose equivalent (DDE) and 400 mrem shallow-dose equivalent (SDE) for 2014 through April 30; 223 mrem DDE and 1160 mrem SDE for 2013; and 281 mrem DDE and 560 mrem SDE for 2012. Independent measurements taken in the hot lab, imaging and unrestricted areas were comparable to the licensee's survey data.

The inspector verified that corrective actions to violations involving the failure to wear whole body and extremity monitoring, and eating and drinking in areas where radioactive materials were used. The inspector observed staff wearing appropriate dosimetry and that staff was aware that eating and drinking were not allowed in areas where radioactive materials were used.