

March 2, 2010

TELEPHONIC CONTACT

License: MARQUETTE GENERAL HEALTH SYSTEM
License No. 21-05432-04
Docket No. 030-18133
Date of Contact: February 25, 2010
Subject: Report over exposure from Fluoroscopic radiography – Non NRC regulated activity.

On the date above, Shan Marlette, Radiation Safety Officer (RSO), contacted Michael LaFranzo, NRC Region III Materials Inspector, to inform the NRC of an overexposure concerning one of the physicians at the licensee's facility. The RSO informed the inspector that the licensee believed all dose received as a result of the exposure, resulted from non-NRC regulated activities and the appropriate State of Michigan regulatory authorities would be notified of the event. Attached to this document is the licensee's report to the State of Michigan.

The inspector notified his Branch Chief and the State Government Liaison Officer of the event. Based upon the information available, the NRC does not plan to perform further review of this event unless additional information becomes available which shows the NRC has some regulatory authority to pursue the issue.



Michael M. LaFranzo
US NRC Region III
2443 Warrenville Rd, Suite 210
Lisle IL 60532-4352

Dear Mr. LaFranzo;

Enclosed is the report I sent today to the State of Michigan regarding the occupational exposure of an Interventional Radiologist. This report will be discussed at the March 10, 2010 meeting of the Radiation Safety Committee. This individual has been discussed previously. He is a very hard working, conscientious Radiologist who is sincerely concerned about his exposure. He and his colleagues are looking into the use of Rad. Pads or similar devices to reduce their exposure. These pads have reduced exposures in the Cath Lab and have been recommended by the RSC.

If I can be further help, please feel free to call: (906) 225-6967.

Sincerely,

Shan Marlette
Radiation Safety Officer
Marquette General Health System
580 W. College Ave.
Marquette, MI 49855

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February 24, 2010

Radiation Safety Section
Bureau of Health Systems
Michigan Dept. of Community Health
PO Box 30664
Lansing Mi 48909

Dear Sir;

Enclosed is a report of occupational exposure to an individual in excess of regulatory limits. The report is written in the format as given in Reporting Guideline BHS/HFS-860 (6/21/2006).

If you have any questions regarding this report, please contact me at (906) 225-6967.

Sincerely,

Shan Marlette, M.S.
Radiation Safety Officer
Marquette General Health System

Notification of Personnel Exposure in Excess of State Regulations

February 24, 2010

Marquette General Hospital
580 W College Ave.
Marquette, MI 49855

This report is prepared in accordance with Rules 205 and 250 of the Ionizing Radiation Rules of the State of Michigan, Part 5, Standards for Protection Against Radiation.

On February 8, 2010, the report was received from the badge vendor, Landauer, Inc., indicating that participant number 975 had received 1.65 rem to the whole body and 1.65 rem to the lens of the eye for the fourth quarter of 2009. This exceeds the limit of 1.25 rem to the whole body or lens of the eye. The radiation quality was reported as "medium", which is appropriate for the type of exposure this individual receives, namely scatter radiation during fluoroscopic radiography. Landauer reports the exposure of record as the greater of two dosimeters worn at the collar outside the lead protection and one worn under the apron at the waist. The waist (lead protected) total for the quarter was 11 mrem.

Lead aprons and thyroid shields are worn at all times by this category of x-ray worker. This worker does not wear lead glasses. Applying the 0.3 correction factor to the collar reading, the effective whole body reading would be 0.495 rem, within allowable limits.

He is an interventional radiologist in a very busy practice. He is a very good physician and utilizes good radiation safety practices. Current Capital budget requests include a stereotactic device for CT fluoroscopy guided biopsy, which is reported to reduce radiation exposure to the operator significantly.

Report prepared by:



Shan Marlette, M.S.
Radiation Safety Officer

Notification of Personnel Exposure in Excess of State Regulations

February 24, 2010
Marquette General Hospital
580 W. College Ave.
Marquette, MI 49855

Person involved in this report:

[REDACTED]
[REDACTED]
[REDACTED]

Collar reading of the fourth quarter 2009: 1650 mrem
Lens of eye: 1650 mrem
Waist reading for the fourth quarter 2009: 11 mrem.
Cumulative total for 2009: 5097 mrem whole body, 5074 lens of eye, 4915 shallow

REPORT OF OCCUPATIONAL RADIATION EXPOSURE

2009

This report is furnished to you under the provisions of Part 5 of the Michigan Department of Consumer & Industry Services rules entitled "*Standards for Protection Against Radiation*". You should preserve this report for future reference.

The State occupational whole body exposure limit as defined in Rule 205 is 1250 mrem per quarter. Rule 203 defines "dose to the whole body" to include the lens of the eye. The badge processor, Landauer, Inc. assesses the dose to the lens of the eye from the assigned badge.

	Social Security No.	Date of Birth	4 th qtr 2009 Exposure (mrem)	
			Whole Body Collar/ Waist	Lens of Eye
██████████ ██████████	██████████	██████████	1650 / 11	1769
			Total 2009 (mrem)	
			5097	5074

This is to verify that I, [REDACTED], have received a copy of the badge report from the Radiation Safety Officer that included the statement "This report is furnished to you under the provisions of Part 5 of the Michigan Department of Consumer & Industry Services rules entitled 'Standards for Protection Against Radiation'. You should preserve this report for future reference."

I have also received the report of my exposure for the fourth quarter of 2009 to be sent to the State as required by State regulations Rule 216(4). I understand the descriptions and conclusions of the report, whether or not I agree with them.

[REDACTED]

2/20/10
Date