



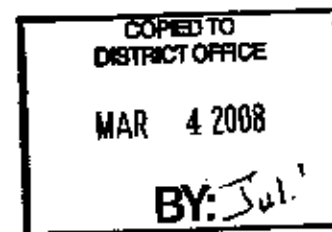
STATE OF MICHIGAN  
DEPARTMENT OF COMMUNITY HEALTH  
LANSING

JENNIFER M. GRANHOLM  
GOVERNOR

JANET OLSZEWSKI  
DIRECTOR

March 4, 2008

Marc Kahn, M.D., Medical Director for Mammography  
Associated Radiologists of Clarkston  
Suite 211  
7210 N Main Street  
Clarkston, Michigan 48346



Mammography Facility Registration Number: 29246

Dear Doctor Kahn:

The Radiation Safety Section examined the mammography facility at the above address on February 11, 2008, to determine compliance with the *Ionizing Radiation Rules* of the State of Michigan, applicable radiation statutes, and the federal Mammography Quality Standards Act (MQSA). Results of the state inspection are presented below. Preliminary results of the MQSA inspection were left with the facility at the time of the inspection. An updated report is enclosed.

**The facility did not meet the requirements of the rules, as follows:**

**DCH Machine registration Number X54891, Room 1**

**Rule 652(3).** The automatic exposure control system did not maintain image optical density to within  $\pm 0.2$  of the average as the kVp was varied within the clinically employed range and as attenuator thickness was varied from 2 to 6 centimeters for each clinically employed kVp.

For your information, this item was cited during the previous inspection.

**Patient Radiation Dose Information**

Our survey of the mammography equipment also included determination of patient radiation dose using technique settings used for an average-size, average-density breast. The half-value layers in millimeters of aluminum, patient skin entrance exposures in milliroentgens (mR), and estimated mean glandular doses in millirads are presented below:

<u>Room</u>	<u>Machine Reg. No.</u>	<u>kVp</u>	<u>Density Setting</u>	<u>Resultant mAs</u>	<u>Half-value Layer</u>	<u>Entrance Exposure</u>	<u>Mean Glandular Dose</u>
Room 1	X54891	25	0	118	0.29	1292	191
Room 2	X44453	25	0	122	0.29	1342	199

### Image Quality Information

Images of an RMI Model 156 mammography phantom were evaluated. At a minimum, a mammography system must be able to image the 4th fiber (0.75 mm), the entire 3rd group of specks (0.32 mm), and the 3rd mass (0.75 mm). The phantom images obtained using the normal technique settings referenced above permitted visualization of the following:

<u>Room</u>	<u>Machine Reg. No.</u>	<u>Fibers</u>	<u>Groups of Specs</u>	<u>Masses</u>	<u>Optical Density</u>
Room 1	X54891	5.5	4.0	4.0	1.94
Room 2	X44453	5.5	4.0	4.0	1.80

Please refer to the *Mammography Inspection Data Sheets* for a detailed analysis of the mammography machine checks and information concerning quality assurance.

### Response

Written notice of corrective action for the indicated items of noncompliance is requested by April 15, 2008.

For your convenience, a notification form is enclosed which can be filled in, signed, and returned to indicate completion of corrective action. Please be sure to indicate the facility registration number in correspondence.

For your information, items of noncompliance are subject to reinspection with possible assessment of a reinspection fee. A timely notice of corrective action, however, may be accepted by the Department in lieu of such a reinspection and fee.

An invoice for the mammography machine inspection fee is enclosed. Payment of the fee is now due.

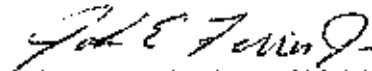
Marv Vahn, M.D., Medical Director for Mammography

Mar. 4, 2008

Page 3

Should there be any questions regarding this report or if we can be of further assistance in radiation protection matters, please contact us (586) 446-0200.

Sincerely,



John E. Ferris, Jr., Health Physicist

Radiation Safety Section

Division of Health Facilities & Services

E-mail: [jeferris@michigan.gov](mailto:jeferris@michigan.gov)

Website: [www.michigan.gov/rss](http://www.michigan.gov/rss)

Enclosures: *MQSA Facility Inspection Report*  
*Mammography Inspection Data Sheet (2)*  
Notification Form  
Inspection Invoice



## Associated Radiologists of Clarkston

Independence Pointe Medical Center • 7210 North Main Street, Suite 211 • Clarkston, Michigan 48346  
Phone: 248.620.9199 • Fax: 248.620.0758

Bureau of Health Systems  
DHFS, Radiation Safety Section  
Michigan Department of Community Health  
611 W. Ottawa Street  
PO Box 30664  
Lansing, Michigan 48909

Associated Radiologists of Clarkston  
Suite 211  
7210 N. Main  
Clarkston, Michigan 48346

Mammography Facility Registration Number: 29246

To Whom It May Concern:

Notice of Corrective Action:

Reference:

DCH Machine registration Number X54891, Room 1

Rule 652(3).—Please see attached service report.