



MID MICHIGAN CARDIOLOGY ASSOC., PLC

1165 S. Linden Road Flint, MI 48532
Phone: (810) 732-5400 Fax: (810) 733-1624

Ethiraj G. Raj, MD, FACC, FSCAI
Mohamadali H. Amlani, MD, FACC
Michelle Rossie, PA-C

Date: January 07, 2008

United States Nuclear Regulatory Commission
Region III, Materials Licensing Section
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

RE: Notification of NRC License
Close-out survey
NRC License No.: 21-26540-01
Facility Name: Mid-Michigan Cardiology Associates, PLC

The purpose of this letter is to close-out our old Nuclear Medicine Department on our current NRC license.

Item#1: A close-out survey was performed on December 12, 2007 and is enclosed for your review.

The last date of use of radioactive material in the old Nuclear Medicine Department location was December 7, 2007 for TI-201 and December 3, 2007 for Tc-99m. No other radioactive materials are used at this facility.

A current copy of the leak test results for the sealed sources used at our facility is enclosed for your review. Sealed Source Leak tests demonstrated no removable contamination. These sources include a Co-57 flood source, Cs-137 and Ba-133 vials for constancy and accuracy testing.

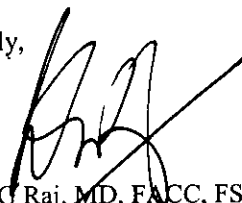
We did not dispose of radioactive materials by release to sewers or incineration. In addition, there were no spills of any long-lived radioactive material or on-site burials of radioactive materials.

Item #2: We would like to change our mailing address to: 1165 South Linden Road, Flint, Michigan 48532.

Please contact our physics consultant, Laura M Luna of the Medical Physics Consultants, Inc. at 734-662-3197, if you have any questions concerning these requests.

Thank you again for your cooperation.

Cordially,


Ethiraj G Raj, MD, FACC, FSCAI
Executive Administration
Mid-Michigan Cardiology Associates

RECEIVED JAN 11 2008

Item #1

Close Out Survey
Mid-Michigan Cardiology Associates
2329 Stonebridge, Bldg E
Flint, MI 48532

Date Performed: December 12, 2007

Performed By: Laura M. Luna, Physics Consultant

Last date of byproduct radiopharmaceutical use:

The last date of use of radioactive material in the old Nuclear Medicine department location site was December 7, 2007 for Tl-201 and December 3, 2007 for Tc-99m. No other radioactive materials used at this facility. All radioactive sources were transferred to the new location prior to closeout.

Well

Wipe tests were analyzed with a Captus 3000 well counter (S/N 900271). Efficiency for Cesium-137 is 7.46 dpm/cpm. MDA is 203.9 dpm.

Survey Meter

Survey performed with Biodex 14C survey meter (S/N 101587) with end window probe calibrated on 03/21/07. Check source reading of 0.8 mR/hr. Range used was 0-.20 mR/hr.

Visual Check

The area was checked to ensure that all radioactive waste had been removed. No radioactive material was located.

Sealed Source Leak Testing

There is no history of leaks from any sealed sources.

Radiation Level Survey

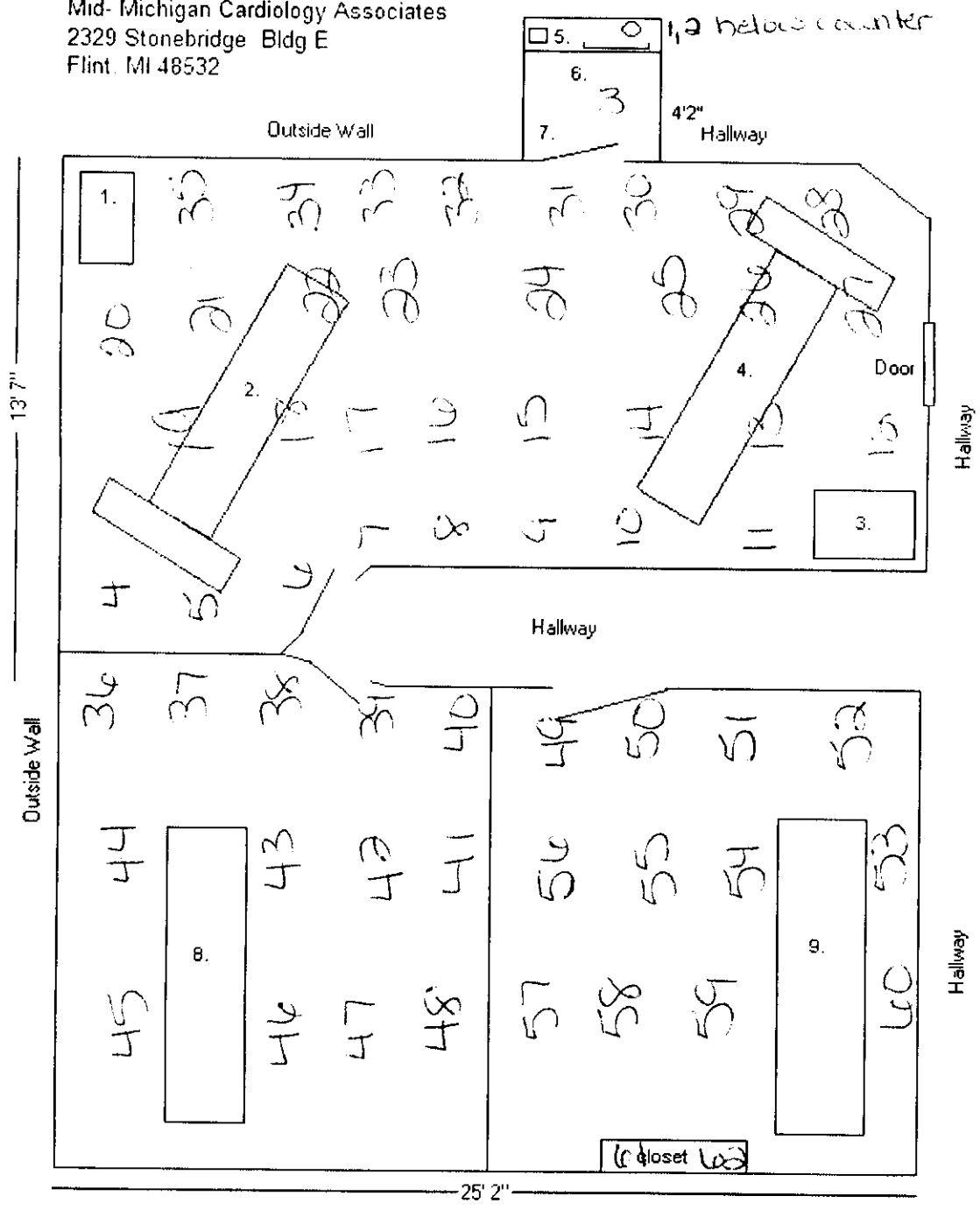
No area within the department demonstrated radiation levels in excess of the background reading of 0.02 mR/hr.

Removable Contamination

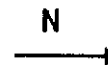
1 minute counts of a wipe sample covering at least a 100 square centimeter area

Close Out Survey
License Number 21-26540-01

Mid- Michigan Cardiology Associates
2329 Stonebridge Bldg E
Flint, MI 48532



- | | |
|------------------------|------------------------|
| 1. Acquisition Station | 6. Radioactive Storage |
| 2. Camera | 7. Package Receipt |
| 3. Acquisition Station | 8. Treadmill #1 |
| 4. Camera | 9. Treadmill #2 |
| 5. Counter | |



Mid-Michigan Cardiology Associates, P.L.C.

License # 21-26540-01

Date: 12/12/07
Well Counter: Captus 3000
Survey Meter: Bicron 14C
Calibrated 03/21/07

Performed By: L. Luna
MDA: 203.9 dpm
Check Value: 2.1 mR/hr

1	dpm	24	dpm	47	dpm
2	527	25	508	48	491
3	527	26	470	49	491
4	527	27	470	50	479
5	511	28	470	51	479
6	511	29	490	52	479
7	511	30	490	53	500
8	478	31	490	54	500
9	478	32	497	55	500
10	478	33	497	56	463
11	487	34	497	57	463
12	487	35	483	58	463
13	487	36	483	59	498
14	500	37	483	60	498
15	500	38	496	61	498
16	500	39	496	62	501
17	482	40	496		
18	482	41	506		
19	482	42	506		
20	500	43	506		
21	500	44	512		
22	500	45	512		
23	508	46	512	Bkg.	498
23	508		491		

ACTION LEVELS: 1000 dpm Efficiency (dpm/cpm): 7.46
< 0.2 mR/hr

Maximum removeable contamination: 527 dpm -498 dpm = 29 dpm

COMMENTS: No evidence of removable contamination.

Sealed Source Leak Test

Licensee: Mid-Michigan Cardiology Associates, PLC

Date: 10/11/07

Performed by: Laura Luna

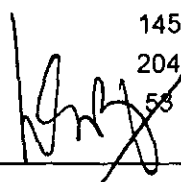
Nuclide	Type	Calibration		Location	M/N	S/N
		Activity	Date			
Cs-137	Vial	215 uCi	10/28/1993	Hot Lab	NES-356	S356026080
Ba-133	Vial	271 uCi	5/27/1993	Hot Lab	NES-358	S358015041
Co-57	Flood	10 mCi	6/18/2007	Hot Lab	MED3709	110004
Co-57	Flood	10 mCi	1/9/2006	Hot Lab	MED3709	68774

Comment: The sources listed above were leak tested using a dry wipe technique and were found to have less than 0.005 uCi removable activity. The following Minimum Detectable Activities are based upon a background at the indicated value. Background was at or below these levels when the above tests were completed.

Well Counter: Captus 3000

<u>Nuclide</u>	MDA	Background
Cs-137	2.0×10^{-4} uCi	145 counts/1 min
Ba-133	8.8×10^{-5} uCi	204 counts/1 min
Co-57	1.7×10^{-5} uCi	55 counts/1 min

RADIATION SAFETY OFFICER: _____



Mid-Michigan Cardiology
Associates, PLC
1165 South Linden Road
Flint, Michigan 48532

②

United States Nuclear Regulatory Commission
Region III, Materials Licensing Section
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

FedEx
TRK# 8632 0474 2389

FRI - 11 JAN A2
PRIORITY OVERNIGHT

NY-ENLA

ORD
IL-US
60532



Emp# 627961 16JAN86 FNTA

RT
0595 D

Fe 01-11 2389

irbill

8632 0474 2389

0200

FedEx Retrieval Copy

1 From Date 1/10/88
Sender's FedEx Account Number 291440827

Sender's Name H.D.-MICHIGAN CARDIOLOGY BLD 732-54003

Company

Address 1165 S. LINDEN

City Flint State MI ZIP 48532

2 Your Internal Billing Reference

3 To Recipient's Name

Company U.S. Nuclear Regulatory Commission

Address Region III, Materials Licensing Section

Address 2443 WARRENVILLE RD. STE 210

City Lisle State IL ZIP 60532-4352



8632 0474 2389

© 2005 FedEx 155476/155475 REV 9/05 RT

4a Express Package Service Packages up to 250 lbs.

FedEx Priority Overnight
 FedEx Standard Overnight
 FedEx First Overnight

FedEx 2Day
 FedEx Express Saver
 FedEx 3Day Freight

4b Express Freight Service Packages over 150 lbs.

FedEx 1Day Freight
 FedEx 2Day Freight
 FedEx 3Day Freight

5 Packaging
 FedEx Envelope
 FedEx Pak
 FedEx Box
 FedEx Tube
 Other

6 Special Handling
 SATURDAY Delivery
 HOLD at FedEx Location
 HOLD Saturday at FedEx Location

Does this shipment contain dangerous goods?
 No Yes
 Dry Ice
 Cargo Aircraft Only

7 Payment Method
 Sender's Account
 Recipient
 Third Party
 Credit Card
 Cash/Check

Total Packages 1
Total Weight

8 Residential Delivery Signature Options
 No Signature Required
 Direct Signature
 Indirect Signature



FedEx.com 1.800.Go.FedEx 1.800.463.3339