



Cardiovascular Associates, P.C.

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Nuclear Cardiology
Accredited Nuclear
Cardiology Laboratory



ICAEI
Accredited Echocardiography
Laboratory



27177 LAHSER ROAD, SUITE 103
SOUTHFIELD, MICHIGAN 48034
TELEPHONE: (248) 357-1360
FAX: (248) 357-1745

27472 SCHOENHERR, SUITE 140
WARREN, MICHIGAN 48088
TELEPHONE: (586) 778-2950
FAX: (586) 778-3240

2300 HAGGERTY ROAD, SUITE 2190
WEST BLOOMFIELD, MICHIGAN 48323
TELEPHONE: (248) 926-9075
FAX: (248) 926-9079

June 10, 2009

UNITED STATES NUCLEAR REGULATORY COMMISSION
Region III, Materials Licensing Section
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Re: Amendment for NRC License # 21-15166-01
Close West Bloomfield Location of Use

Dear Sir/Madam:

Please amend our NRC license to remove the following address of use:

**Lakes Professional Bldg
2300 Haggerty Road, Suite 2190
West Bloomfield, MI 48323**

The results of the close-out are enclosed for your review.

If you have any questions or require additional information please contact our Medical Physics Consultant and Radiation Safety Officer, Cari Dzanbazoff, at (734) 662-3197.

Sincerely,

Executive Management
Cardiovascular Associates, P.C.

RECEIVED JUN 19 2009

Close-out Survey Information

Nuclear Medicine Close-out Location:

Cardiovascular Associates, P.C.
Lakes Professional Bldg
2300 Haggerty Road, Suite 2190
West Bloomfield, MI 48323

(There are no room numbers associated with the designated areas)

Date Performed: January 20, 2009

Performed By: Cari Dzanbazoff, Medical Physics Consultants Inc.

Instruments:

Wipes for contamination performed with the following well counter:

Manufacturer: Capintec
Model Number: Captus 3000
Serial Number: 900271
Efficiency Factor: 2.5 dpm/cpm

Area survey performed with the following survey meter:

Manufacturer: Ludlum
Type: GM
Model Number: Model 14C
Serial Number: 154086
Probe Model: End Window
Calibration Date: 2/22/08

Battery check acceptable:	<u>YES</u>
Operational check acceptable:	<u>YES</u>
Constancy check acceptable:	<u>YES</u>
Check source value:	<u>3.0 mR/hr</u>

Close-out Survey Information

Radionuclides Used:

Unsealed

Tc-99m, TI-201

No radioactivity had been received after 3/18/08.

Sealed

Ba-133, Co-57, Cs-137

All sealed sources were properly transferred to the Southfield location or returned to the manufacturer.

Sealed source leak tests enclosed.

Visual Check: The area was checked to ensure that there was no evidence of radioactive material.

Radiation Level Survey: No area demonstrated radiation levels in excess of the background reading of 0.02 mR/hr.

Removable Contamination: No area demonstrated removable contamination in excess of established trigger levels.

Surveys, Wipes, and Diagrams are enclosed for review.

Medical Physics Consultants, Inc

Sealed Source Leak Test

Licensee: Cardiovascular Assoc. (West Bloomfield)

Date: 12/12/08

Performed by: Cari Dzanbazoff

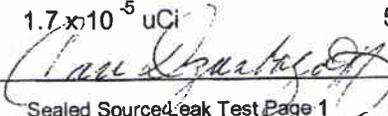
Nuclide	Type	Calibration Activity	Calibration Date	Location	M/N	S/N
Cs-137	Vial	298.8 uCi	05/01/81	Hot Lab	CDC.VI	3147MA
		Current Activity: 157.8uCi				
Ba-133	Vial	269.7 uCi	02/01/02	Hot Lab	IPL	788-63-1
		Current Activity: 171.7uCi				

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

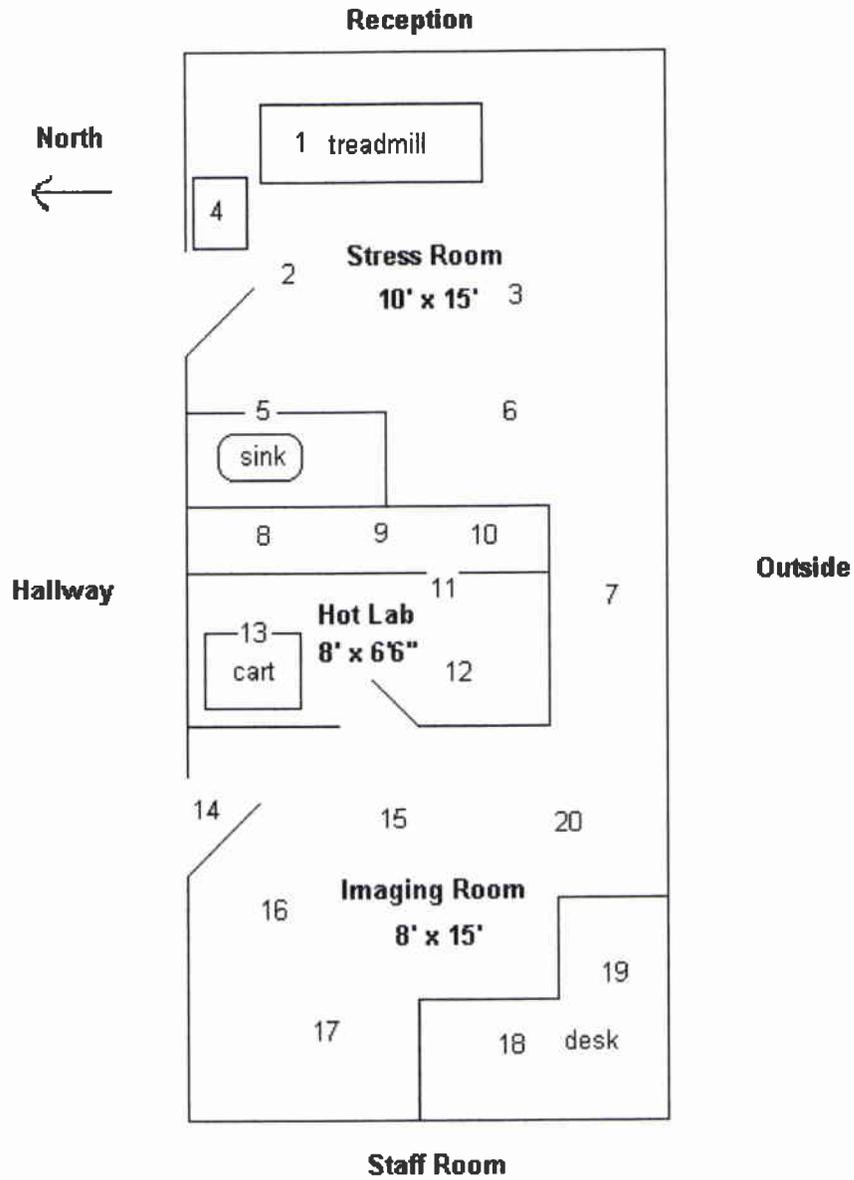
Nuclide	MDA	Background
Cs-137	2.0×10^{-4} uCi	145 counts/1 min
Ba-133	8.8×10^{-5} uCi	204 counts/1 min
Co-57	1.7×10^{-5} uCi	53 counts/1 min

RADIATION SAFETY OFFICER:



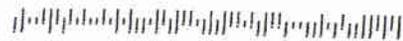
CLOSE OUT OF NUCLEAR MEDICINE DEPARTMENT

**Cardiovascular Associates, P.C.
Lakes Professional Bldg
2300 Haggerty Road, Suite 2190
West Bloomfield, MI 48323**



Survey and Wipe Results Attached

CARDIOVASCULAR ASSOCIATES, P.C.
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