Cardiovascular Associates, P.C.

ICANL Nuclear Cardiology
Accredited Nuclear Cardiology Laboratory

ICAEL
Accredited Echocardiography Laboratory

Accredited Vascular Laboratory

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27177 LAHSER ROAD, SUITE 103
SOUTHFIELD, MICHIGAN 48034
TELEPHONE: (248) 357-1360
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28295 SCHOENHERR, SUITE C
WARREN, MICHIGAN 48088
TELEPHONE: (586) 573-7300
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2300 HAGGERTY ROAD, SUITE 2190
WEST BLOOMFIELD, MICHIGAN 48323
TELEPHONE: (248) 926-9075
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February 26, 2010

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 out of Warren Location: 28295 Schoenherr Road
Please Expedite

Dear Sir/Madam:

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

28295 SCHOENHERR
SUITE C
WARREN, MI 48088

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

We request that you please expedite this amendment request due to patient care issues at the closed location. The restricted areas are needed for patient care.

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

Sincerely,

Juan C Rojas

Juan Rojas, M.D.
Executive Management
Cardiovascular Associates, P.C.

RECEIVED MAR 1 6 2010

Close-out Survey Information

Close-out Location:

CARDIOVASCULAR ASSOCIATES, P.C.
28295 SCHOENHERR
SUITE C
WARREN, MI 48088

Date Performed: February 26, 2010

Performed By: Cari Dzanbazoff, Medical Physics Consultants Inc.

Comments: All equipment and sealed sources were properly transferred to the new Warren location.

Instruments:

Wipes for contamination performed with the following well counter:

Manufacturer: Capintec
Model Number: Captus 3000
Serial Number: 900271
Efficiency Factor: 6.6 dpm/cpm

Area survey performed with the following survey meter:

Manufacturer: Ludlum
Type: GM
Model Number: Model 14 C
Serial Number: 213237
Probe Model: Side Window
Calibration Date: 07/01/2009

Battery check acceptable: YES
Operational check acceptable: YES
Constancy check acceptable: YES
Check source value: 1.15 mR/hr

Radionuclides Used:

Unsealed
Tc-99m, Tl-201

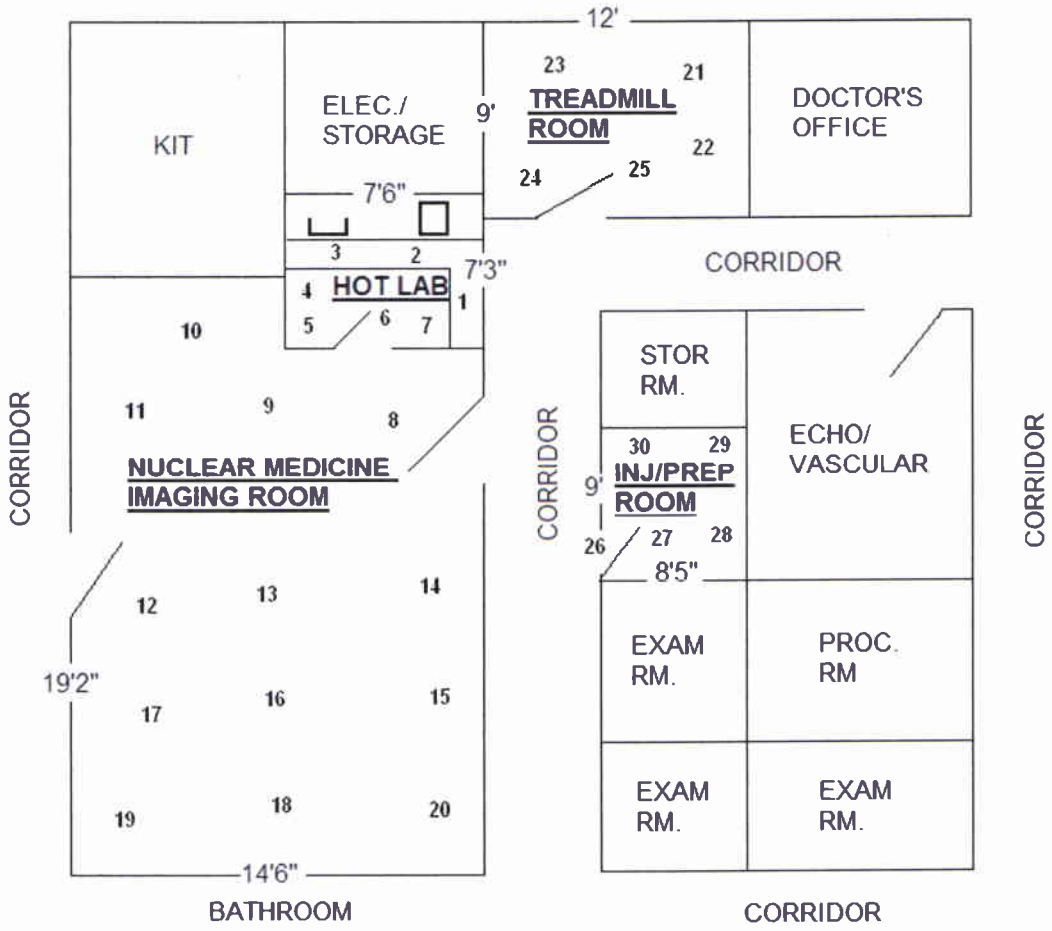
Sealed
Cs-137, Co-57, Ba-133 (leak test attached)

CLOSEOUT DIAGRAM

CARDIOVASCULAR ASSOCIATES, P.C.
28295 SCHOENHERR
SUITE C
WARREN, MI 48088

NORTH ↑

OUTSIDE



Designated restricted areas are in bold print and underlined.
Nothing located <u>above</u> or <u>below</u> the designated restricted areas.

Survey and Wipe Results Attached
Sealed Source Leak Test Attached

Visual Check: The area was checked to ensure that all radioactive waste had been removed. No evidence of radioactive material was noted.

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

Removable Contamination: No area within the lab demonstrated removable contamination in excess of 62 dpm/100 cm sq.

Sealed Sources: All sealed sources were properly transferred to the new Warren location.

Surveys, Wipes, and Diagrams are enclosed for review.

Cardiovascular Associates - Warren Location

License # 21-15166-01

Date:	2/26/2010	**Performed By:**	Cari Dzanbazoff RSO
Survey Meter:	Ludlum 14C	**Well Counter:**	Capintec
Serial Number:	213237	**Model:**	Captus 3000
Calibration Date:	7/1/2009	**Serial Number:**	900271

		cpm (5 minute count)	net dpm	mR/h
1	Counter	451	0	0.02
2	Dosing Area	451	0	0.02
3	Sink	451	0	0.02
4	Floor	451	0	0.02
5	Flood Storage Area	477	62	0.02
6	Floor	477	62	0.02
7	Package Receipt	477	62	0.02
8	Floor	477	62	0.02
9	Floor	435	0	0.02
10	Floor	435	0	0.02
11	Floor	435	0	0.02
12	Floor	435	0	0.02
13	Floor	452	0	0.02
14	Floor	452	0	0.02
15	Floor	452	0	0.02
16	Floor	452	0	0.02
17	Floor	473	36	0.02
18	Floor	473	36	0.02
19	Floor	473	36	0.02
20	Floor	473	36	0.02
21	Floor	454	0	0.02
22	Floor	454	0	0.02
23	Floor	454	0	0.02
24	Floor	454	0	0.02
25	Floor	469	9	0.02
26	Floor	469	9	0.02
27	Floor	469	9	0.02
28	Floor	469	9	0.02
29	Sink	469	9	0.02
30	Injection Chair	469	9	0.02
	background	468		0.02

ACTION LEVELS: 1000 dpm/100 cm sq

Efficiency Factor = 6.6 dpm/cpm
Full Spectrum

COMMENTS: No evidence of removable contamination.

MPC
MEDICAL PHYSICS CONSULTANTS, INC.

Sealed Source Leak Test

Licensee: Cardiovascular Associates (Warren) Date: 10/08/09

Performed by: Cari Dzanbazoff

Nuclide	Type	Calibration Activity	Calibration Date	Location	M/N	S/N
Cs-137	Vial	226 uCi	06/27/98	Hot Lab	NES-356	356037047
Current Activity:		174.1 uCi				
Ba-133	Vial	274 uCi	02/14/00	Hot Lab	NES-358	358027048
Current Activity:		147 uCi				
Co-57	Flood	10 mCi	04/01/08	Hot Lab	NES8510	1284-031
Current Activity:		2.418 mCi				
Cs-137	Vial	202.4 uCi	07/01/05	Hot Lab	IPL	1111-95-17
Current Activity:		183.4 uCi				
Ba-133	Vial	266.4 uCi	07/01/05	Hot Lab	IPL	1124-34-3
Current Activity:		202.2 uCi				

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: Cari Dzanbazoff

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REGION III, MATERIALS LICENSING SECTION
2443 WARRENVILLE ROAD
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