



Cardiovascular Associates, P.C.



Nuclear Cardiology
Accredited Nuclear
Cardiology Laboratory



ICAEL
Accredited Echocardiography
Laboratory



OSWALD BOSTIC, B.S.C., M.D., F.R.C.P., (C)
JUAN C. ROJAS, M.D.
LUIS E. OSTERBERGER, M.D.
VIJAY KUDESIA, M.D., F.A.C.C.
DOMINIC A. CUSUMANO III, M.D.
MARIA PACIS-BIEDERMAN, D.O., F.A.C.C.

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

28295 SCHOENHERR, SUITE C
WARREN, MICHIGAN 48088
TELEPHONE: (586) 573-7300
FAX: (586) 573-7315

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

September 25, 2008

United States Nuclear Regulatory Commission
Region III, Materials Licensing
2443 Warrenville Road, Ste. 210
Lisle, IL 60532-4351

**RE: Amendment Request for Additional Location of Use at License No.
21-15166-01
Approval of New State of Michigan DEQ Registration Form**

**Concurrent with Termination of License No. 21-32575-01
Termination of State of Michigan DEQ Registration Form #1939-1**

Dear Sir/Madam:

Please see the following request to amend our NRC license to add a location of radioactive use. We would like to request concurrent processing of this amendment with a request to terminate license no. 21-32575-01 (Oakland Macomb Internal Medicine Group, P.C.). The reason for this request is to prevent any disruption of clinical practice or patient care. Please find the enclosed information pertaining to both transactions.

ITEM #1 ADD LOCATION OF USE

We would like to amend our current NRC license to add a new location of radioactive use at:

43184 Dequindre Road
Suite 201
Sterling Heights, MI 48314

The above facility is currently licensed by Oakland Macomb Internal Medicine Group, P.C. License # 21-32575-01. The termination request for this license is enclosed.

RECEIVED OCT 2 1 2008

We would like to add the facility to our license concurrent with the termination of the Oakland Macomb Internal Medicine Group license. We will assume all radiation safety responsibility for the facility once the existing license has been terminated and the site has been added to our license.

Please find the enclosed diagram for the additional location of use.

- Please note there will be no use of Xe-133 gas at this facility.
- The door to the hot lab will be under lock and/or key at all times. Only authorized personnel will have access to the keys and/or combination to the hot lab.
- All sealed sources and radioactive waste will be stored behind lead shielding in addition to the typical lead containers.
- Please note that this facility is not a residence.
- Upon receipt of this amendment we will commence receipt and use of radioactive materials at this facility and will follow all conditions of our existing license.

ITEM #2 RADIATION SAFETY OFFICER AVAILABILITY

The following information applies to our Radiation Safety Officer and her ability to divide her time between the current facilities listed on our license and the new facility we wish to add so that she will be able to adequately perform her duties as the Radiation Safety Officer.

- a. Cari Dzanbazoff has adequate time and flexibility to address both the contractual and regulatory obligations as the Radiation Safety Officer. The amount of time that she will spend at this facility will vary. Time will depend upon the status of the Radiation Protection Program and other variables. At minimum, Cari Dzanbazoff will perform an audit or review the audit material on a quarterly basis which is standard of practice. The results of the audit will be forwarded to management and the supervising technologist.
- b. Cari Dzanbazoff lives and normally works within 60 miles of the new facility so she will most likely be able to respond to an emergency involving radioactive material within 60 minutes. However, this time may vary depending upon her activities on a given day.

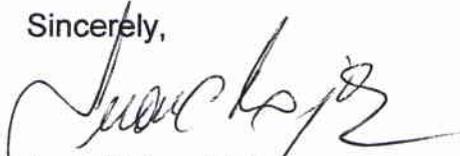
Typically, Cari will be able to respond immediately by phone. All of our facilities have both her cell phone and office phone numbers. The office staff at Medical Physics Consultants (her employer) has a copy of her daily schedule at all times. The staff has phone numbers to any location that she might be working at.

Medical Physics Consultants also has an answering service that operates 24 hours a day, 7 days a week, 365 days a year. They have phone numbers for her home, cell, and office.

- c. Cari Dzanbazoff currently has no other commitments as a RSO at any other licensed facility.

If you have any questions or require additional information, please contact our physics consultant and Radiation Safety Officer, Cari Dzanbazoff at (734) 662-3197 or fax (734) 662-9224.

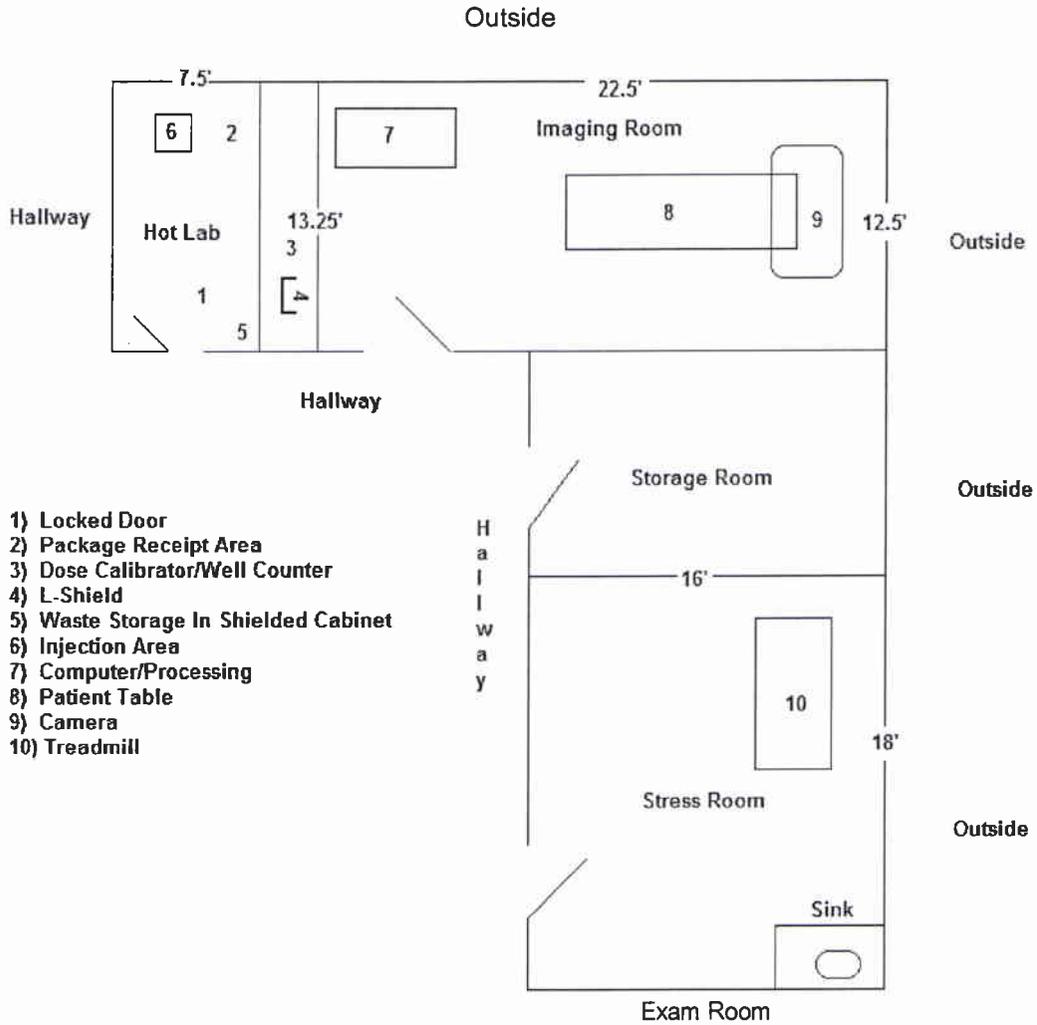
Sincerely,

A handwritten signature in black ink, appearing to read 'Juan Rojas', written in a cursive style.

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

FACILITY DIAGRAM
 43184 Dequindre Road
 Suite 201
 Sterling Heights, MI 48314

NORTH ↑



- 1) Locked Door
- 2) Package Receipt Area
- 3) Dose Calibrator/Well Counter
- 4) L-Shield
- 5) Waste Storage In Shielded Cabinet
- 6) Injection Area
- 7) Computer/Processing
- 8) Patient Table
- 9) Camera
- 10) Treadmill

Single Level Facility – Nothing Above or Below

Only authorized personnel will have access to restricted areas.

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTE AND HAZARDOUS MATERIALS DIVISION



RADIOACTIVE MATERIAL REGISTRATION



This information is required under authority of Part 135, 1978 PA 368, as amended.
Failure to provide the information could result in legal action and penalties.

1. Registrant Name (individual/legal entity to whom registration is to be issued) Cardiovascular Associates, P.C.		2. Facility Name (location of the radioactive sources) Oakland Macomb Internal Medicine Group	
Street Address/P.O. Box 27177 Lahser Road		Street Address 43184 Dequindre, Suite 201	
Suite/Office Building Suite 103		Suite/Office Building	
City/Township Southfield,		City/Township Sterling Heights,	
State MI		State MI	
Zip + 4 48034		Zip + 4 48314	
3. State-Regulated Radioactive Material (e.g., F-18, Na-22, Co-57, Ga-67, Pd-103, Cd-109, In-111, I-123, Tl-201, Ra-226) If currently registered, please provide current radioactive material registration number:			
Unsealed Sources		Sealed Sources	
Radionuclide	Maximum Activity at Facility (millicuries)	Radionuclide	Maximum Activity at Facility (millicuries)
Tl-201	100 mCi	Co-57	50 mCi
4. Radiation Protection Supervisor's Name Cari Dzanbazoff, BS, MBA		Area Code and Telephone No. 586-739-1333	Facsimile No. 586-739-8616
Title Radiation Safety Officer		Electronic Mail Address cdz@mpcphysics.com	
Signature 		Date 9/16/08	
5. Radioactive Material Licensed by the U.S. Nuclear Regulatory Commission or Another State Specific License Numbers: 21-15166-01			
REGISTRATION DOES NOT IMPLY APPROVAL OF THE FACILITY BY THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) Registration will not be acknowledged by the MDEQ by return of a receipted copy of this document unless it is properly completed and signed. Please return this completed document to: MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY WASTE AND HAZARDOUS MATERIALS DIVISION RADIOLOGICAL PROTECTION SECTION PO BOX 30241 LANSING MI 48909-7741 For additional information, please contact us at: Telephone: 517-335-2690 Fax: 517-373-4797			

MDEQ USE ONLY			
MDEQ Registration Number:			
Initial	<input type="checkbox"/>	Staff No:	
Amendment	<input type="checkbox"/>	County No:	Receipted Copy Sent:

Sealed Source Leak Test

Licensee: Oakland Macomb Internal Medicine Grp, PC

Date: 06/05/08

Performed by: Sharon Updike

Nuclide	Type	Calibration Activity	Calibration Date	Location	M/N	S/N
Cs-137	Vial	202.4 uCi	07/01/05	Hot Lab	IPL	1111-95-17
Current Activity: 189.15uCi						
Ba-133	Vial	266.4 uCi	07/01/05	Hot Lab	IPL	1124-34-3
Current Activity: 220.49uCi						
Co-57	Flood	10 mCi	06/01/05	Hot Lab	NES-392	1121-189
Current Activity: 0.6mCi						

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: _____



September 30, 2008

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

**RE: Termination of NRC License No. 21-32575-01
State Registration #: 1939-1**

Dear Sir/Madam:

The purpose of this letter is to terminate our current NRC license. We would like to request concurrent processing of this license termination with an amendment to add this facility as an additional location of use to Cardiovascular Associates, PC's current NRC license 21-15166-01. The reason for this request is to prevent any disruption of clinical practice or patient care. Please find the enclosed information pertaining to both transactions enclosed.

Item #1

Please terminate the license listing the following location of use:

**Oakland/Macomb Internal Medicine Group, PC
43184 Dequindre Road
Sterling Heights, MI 48314**

Since Cardiovascular Associates, PC will continue providing nuclear medicine services utilizing the current areas of use at the above address pending the NRC's approval to add this site to their current license; a closeout survey has not been performed. Please note that all equipment and radioactive material including the sealed sources will remain at this facility and will be transferred to Cardiovascular Associates, PC's license 21-15166-01.

We have enclosed the NRC form 314 for your review. A current copy of the leak test results for the sealed sources used at our facility is enclosed for your review.

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.

Thank you for your cooperation. If you have any questions or require additional information, please contact our physics consultant, Sharon Updike at 734-662-3197.

Respectfully Yours,

A handwritten signature in black ink, appearing to be 'M. G.', written in a cursive style.

Executive Management
Oakland/Macomb Internal Medicine Group, PC

CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE NAME AND ADDRESS

Oakland Macomb Internal Medicine Group, P.C.
43184 Dequindre, Suite 201 Sterling Heights, MI 48314

LICENSE NUMBER

21-32575-01

DOCKET NUMBER

030-36936

LICENSE EXPIRATION DATE

05/31/2015

A. LICENSE STATUS (Check the appropriate box)

- This license has expired.
- This license has not yet expired; please terminate it.

B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
- 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner.
 - a. Transfer of radioactive materials to the licensee listed below:
Cardiovascular Associates, PC NRC license number 21-15166-01; Contact person: Cari Dzanbazoff, RSO at 734-662-3197
 - b. Disposal of radioactive materials:
 - 1. Directly by the licensee:
 - 2. By licensed disposal site:
 - 3. By waste contractor:
 - c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

C. SURVEYS PERFORMED AND REPORTED

- 1. A radiation survey was conducted by the licensee. The survey confirms:
 - a. the absence of licensed radioactive materials
 - b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
- 2. A copy of the radiation survey results:
 - a. is attached; or b. is not attached (Provide explanation); or c. was forwarded to NRC on: _____ Date
- 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
 - a. The results of the latest leak test are attached; and/or
 - b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME Cari Dzanbazoff	TITLE Medical Physics Consultant	TELEPHONE (Include Area Code) (734) 662-3197	E-MAIL ADDRESS
Mail all future correspondence regarding this license to: 27177 Lahser Rd. Ste. 103 Southfield MI 48034			

C. CERTIFYING OFFICIAL
I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

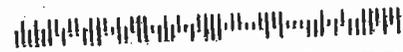
PRINTED NAME AND TITLE Bernardo Rojas, M.D. - Executive Management	SIGNATURE 	DATE 10-9-08
--	---	------------------------

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.



Cardiovascular Associates, P.C.

27177 Lehsar Road
Suite 103
Southfield, Michigan 48034



UNITED STATES POSTAGE

02 1P
0004409626 OCT 16 2008
MAILED FROM ZIP CODE 48034
\$ 001.34⁰

United States Nuclear Regulatory Commission
Region III, Office of Materials Licensing
2443 Warrenville Rd., Ste 210
Lisle, IL 60532-4352