



**CARDIOVASCULAR**  
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July 20, 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 # 21-26391-01  
Close Dearborn Heights (Ford Road) Location

Dear Sir/Madam:

We currently have an amendment request in the possession of the NRC to add a new location of use (**23801 West Warren Avenue, Dearborn Heights, MI 48127**).

In addition to the amendment request in process, please amend our NRC license to remove the following location of radioactive use. Due to patient care issues, we ask that you please expedite this request.

**Cardiovascular Clinical Associates, P.C.**  
**23822 Ford Road**  
**Dearborn Heights, MI 48127**

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, Cari Dzanbazoff, at (734) 662-3197.

Sincerely,

  
Mark Rasak, D.O.  
President, Board of Directors  
Cardiovascular Clinical Associates, P.C.



**FARMBROOK CENTER**

29877 Telegraph Road  
Suite 400  
Southfield, MI 48034  
(248) 799-2600  
Fax: (248) 799-2604  
www.heartdrs.com

RECEIVED JUL 23 2009

**Sealed Source Leak Test**

Licensee: Cardiovascular Clinical Assoc-Ford Tel

Date: 04/29/09

Performed by: Laura Luna

Nuclide	Type	Calibration Activity	Calibration Date	Location	M/N	S/N
Cs-137	Vial	206.9 uCi	05/01/05	Hot Lab	IPL	1111-60-12
		Current Activity: 188.65uCi				
Ba-133	Vial	277.9 uCi	06/01/05	Hot Lab	IPL	1111-59-10
		Current Activity: 215.90uCi				
Co-57	Flood	10 mCi	08/01/07	Hot Lab	NES8400	1252-176
		Current Activity: 1.96mCi				

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	$2.0 \times 10^{-4}$ uCi	145 counts/1 min
Ba-133	$8.8 \times 10^{-5}$ uCi	204 counts/1 min
Co-57	$1.7 \times 10^{-5}$ uCi	53 counts/1 min

**RADIATION SAFETY OFFICER:** \_\_\_\_\_

## Close-out Survey Information

### Close-out Location:

Cardiovascular Clinical Associates, P.C.  
23822 Ford Road  
Dearborn Heights, MI 48127

**Date Performed:** July 13, 2009

**Performed By:** Cari Dzanbazoff, Medical Physics Consultants Inc.

**Comments:** Radioactive sealed sources were properly transferred to the Southfield location. Sealed source leak test is enclosed.

### 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 14 C  
Serial Number: 210192  
Probe Model: Side Window Probe  
Calibration Date: 10/23/2008

Battery check acceptable:	<u>YES</u>
Operational check acceptable:	<u>YES</u>
Constancy check acceptable:	<u>YES</u>
Check source value:	<u>2.5 mR/hr</u>

**Radionuclides Used:**

**Unsealed**

Tc-99m, Tl-201

**Sealed**

Ba-133, Co-57, Cs-137

All sealed sources were properly transferred to the Southfield location.

Sealed source leak tests enclosed.

**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.

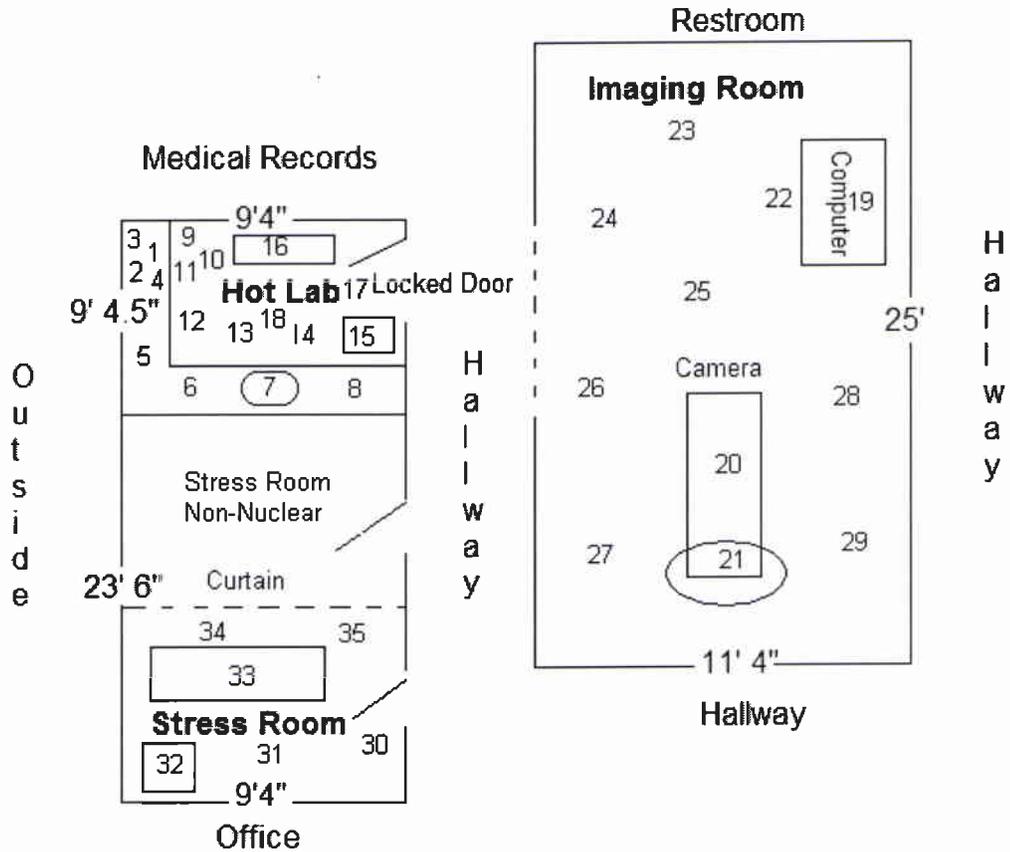
**Removable Contamination:** No area within the lab demonstrated removable contamination in excess of established trigger levels.

**Sealed Sources:** All sealed sources were properly transferred to the Southfield location. Sealed source leak tests enclosed.

**Surveys, Wipes, and Diagrams are enclosed for review.**

# CLOSEOUT DIAGRAM

**Cardiovascular Clinical Associates, P.C.**  
23822 Ford Road  
Dearborn Heights, MI 48127



This is a single level facility.

**CARDIOVASCULAR CLINICAL ASSOCIATES, P.C. - DEARBORN HEIGHTS LOCATION**  
**WIPE/SURVEY RESULTS - LICENSE # 21-26391-01**

**Date:** 07/13/09 **Performed By:** Cari Dzanbazoff

**Survey Meter:** Ludlum 14C **Well Counter:** Capintec  
**Serial Number:** 210192 **Model:** Captus 3000  
**Calibration Date:** 10/23/09 **Serial Number:** 900271

		cpm	net dpm	mR/h
1	L-Shield	471	2.5	0.02
2	Waste Container	471	2.5	0.02
3	Waste Storage	471	2.5	0.02
4	Dose Calibrator/Well	504	85.0	0.02
5	Counter Top	504	85.0	0.02
6	Counter Top	504	85.0	0.02
7	Sink	495	62.5	0.02
8	Counter Top	495	62.5	0.02
9	Waste Container	495	62.5	0.02
10	Waste Container	480	25.0	0.02
11	Floor	480	25.0	0.02
12	Floor	480	25.0	0.02
13	Floor	481	27.5	0.02
14	Floor	481	27.5	0.02
15	Injection Chair	481	27.5	0.02
16	Cabinet	466	0	0.02
17	Floor	466	0	0.02
18	Floor	466	0	0.02
19	Acquisition Area	506	90.0	0.02
20	Imaging Table	506	90.0	0.02
21	Gamma Camera	506	90.0	0.02
22	Floor	429	0	0.02
23	Floor	429	0	0.02
24	Floor	429	0	0.02
25	Floor	485	37.5	0.02
26	Floor	485	37.5	0.02
27	Floor	485	37.5	0.02
28	Floor	470	0	0.02
29	Floor	470	0	0.02
30	Floor	461	0	0.02
31	Floor	461	0	0.02
32	ECG	461	0	0.02
33	Treadmill	503	82.5	0.02
34	Floor	503	82.5	0.02
35	Floor	503	82.5	0.02
	background	470.0		0.02

**ACTION LEVELS:** 1000 dpm/100 cm sq

Efficiency Factor = 2.5 dpm/cpm  
 Full Spectrum

**COMMENTS:** No evidence of removable contamination.

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 Packages up to 150 lbs. \* To meet last business day delivery to select locations. Saturday Delivery NOT available.

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 FedEx 3Day Freight Third business day. \* Saturday Delivery NOT available.  
 Packages over 150 lbs. \* To meet last business day delivery to select locations.

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