

CARDIOVASCULAR

CONSULTANTS P.C.

www.cardiovascularconsultantspc.com

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Diplomates, American Board of Internal Medicine
Diplomates, American Board of Cardiovascular Disease

April 18, 2011

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

Re: Notification for NRC License #21-32102-01

Dear Sir/Madam:

We would like to notify you that we will have decommissioned four (4) areas of use at our 37771 Schoenherr Road, Sterling Heights location. We would like to remove one (1) Imaging Room, one (1) Hot Lab, one (1) Injection Room, and one (1) Stress room as areas of radioactive use on our license. These four (4) areas are identified as Schoenherr Area #1 on our NRC license application. There are no room numbers or suite numbers associated with these areas.

The only byproduct material used at this facility is in accordance with 35.200. The results of the close-out/decommissioning are enclosed for your review.

Please note: This is not an amendment request to remove the Schoenherr Road location from our license as we will continue to use the remaining Imaging Room, Hot Lab, and Stress area that are also located at the Schoenherr Road location. The remaining areas are identified as Schoenherr Area #2 on our NRC license application.

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

Sincerely,



Armando C. Madrazo, MD
Executive Management
Cardiovascular Consultants, P.C.

37771 Schoenherr, Suite 101 - Sterling Heights, MI 48312-2301 Telephone (586) 698-1200 Fax (586) 698-1210
57850 Van Dyke, Suite 400, Washington, MI 48094 Telephone (586) 677-4606 Fax (586) 677-4661
1135 W. University, Suite 230, Rochester, MI 48307 (248) 402-0088 Fax (248) 652-5745
8545 Common Road, Suite 150, Warren, MI 48093 Telephone (586) 573-7971 Fax (586) 573-4009

RECEIVED APR 27 2011

Close-out Survey Information

License # 21-32102-01

Close-out Areas at Schoenherr Road, Sterling Heights Location:

Schoenherr #1

Imaging Room

Hot Lab

Stress Room

No radioactive materials have been used in these areas since 1/20/11 or before.

Please note: This is not an amendment request to remove the Schoenherr Road location from our license as we will continue to use the remaining Imaging Room, Hot Lab, and Stress area that are also located at the Schoenherr road location. The remaining areas are identified as Schonherr #2 on or NRC license application.

Date Performed: April 12, 2011

Performed By: Cari Dzanbazoff, Medical Physics Consultants Inc.

Comments: All sealed sources were properly transferred to the alternate hot lab within the same building. (Sealed source leak test 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: 139442
Probe Model: End Window
Calibration Date: 10/29/2010

Battery check acceptable:	<u>YES</u>
Operational check acceptable:	<u>YES</u>
Constancy check acceptable:	<u>YES</u>
Check source value:	<u>6.5 mR/hr</u>

Close-out Survey Information
License # 21-32102-01

Radionuclides Used:

Unsealed

Tc-99m, TI-201

Sealed

Cs-137, Co-57, Ba-133 (leak tests 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 established trigger levels.

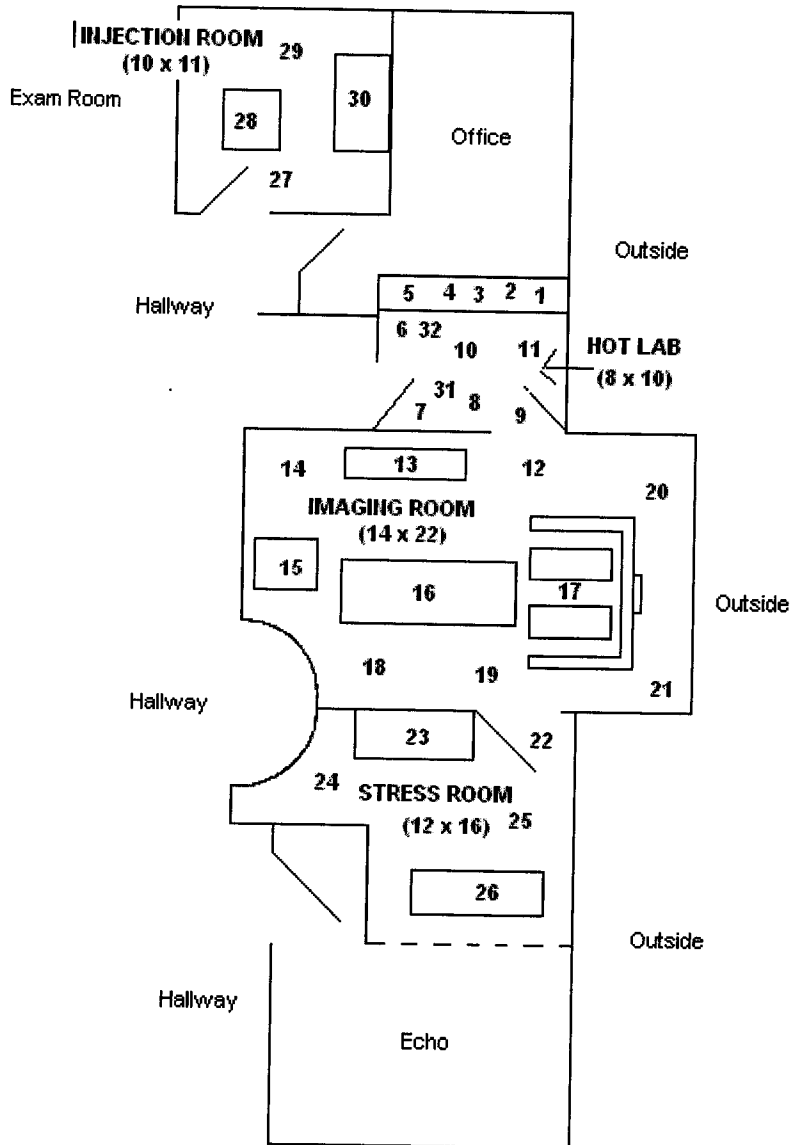
Sealed Sources: All sealed sources were properly transferred to the alternate hot lab.

Surveys, Wipes, and Diagrams are enclosed for review.

CARDIOVASCULAR CONSULTANTS, P.C.

CLOSEOUT DIAGRAM SCHOENHERR SITE (AREA #1)

NORTH →



Single Story Location – Roof Above; Ground Below

Survey and Wipe Results Attached
Sealed Source Leak Test Attached

License # 21-32102-01

Performed By: Cari Dzanbazoff

Well Counter: Capintec
Model: Captus 3000
Serial Number: 900271

COMMENTS: No evidence of removable contamination.

Cardiovascular Consultants, P.C. - Schoenherr Imaging Room #1
License # 21-32102-01

Date:	4/12/2011	Performed By:	Cari Dzanbazoff
Survey Meter:	Ludlum 14C	Well Counter:	Capintec
Serial Number:	139442	Model:	Captus 3000
Calibration Date:	10/29/2010	Serial Number:	900271

Performed By: Cari Dzanbazoff

Well Counter: Capintec
Model: Captus 3000
Serial Number: 900271

[illegible]

Efficiency Factor = 2.5 dpm/cpm
Full Spectrum

COMMENTS: No evidence of removable contamination.

[illegible]



Sealed Source Inventory

Licensee: Cardiovascular Consultants (Schoenherr #1)

Date: 01/20/11

Performed by: Cari Dzanbazoff

		Calibration		Location	M/N	S/N
Nuclide	Type	Activity	Date			
Cs-137	Vial	218 uCi	02/14/97	Hot Lab	NES-356	356034051
	Current Activity:	158 uCi				
Ba-133	Vial	260 uCi	04/29/97	Hot Lab	NES-358	358022042
	Current Activity:	107.2 uCi				
Cs-137	Rod	1 uCi		Hot Lab	Picker	
	Current Activity:	uCi				
Cs-137	Yellow	10 uCi		Hot Lab	Yellow	
	Current Activity:	uCi				
Co-57	Flood	10 mCi	10/01/08	Hot Lab	NES8480	1324-148
	Current Activity:	1.163 mCi	(Returned to Manuf)			
Co-57	Flood	10 mCi	06/01/10	Hot Lab	NES8480	1436-017
	Current Activity:	5.51 mCi				

SEALED SOURCE AMBIENT EXPOSURE SURVEY

Meter:

Max Reading

RADIATION SAFETY OFFICER: _____



Sealed Source Leak Test

Licensee: Cardiovascular Consultants (Schoenherr #1)

Date: 01/20/11

Performed by: Cari Dzanbazoff

Nuclide	Type	Calibration	Calibration	Location	M/N	S/N
		Activity	Date			
Cs-137	Vial	218 uCi	02/14/97	Hot Lab	NES-356	356034051
		Current Activity: 158 uCi				
Ba-133	Vial	260 uCi	04/29/97	Hot Lab	NES-358	358022042
		Current Activity: 107.2 uCi				
Co-57	Flood	10 mCi	06/01/10	Hot Lab	NES8480	1436-017
		Current Activity: 5.51 mCi				

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.

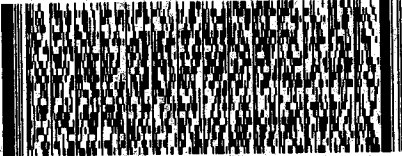
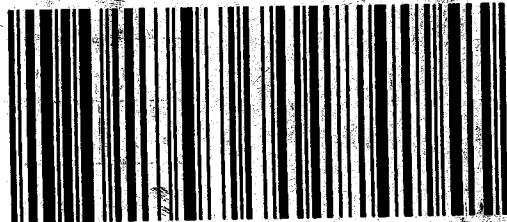
Well Counter: Captus 3000

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: 

2493

Sender's Name		LINDA SCOTT		Phone 686-698-1200	
Company		CARDIOVASCULAR CONSULTANTS			
Address		37771 SCHOENHERR RD 101			
City		STERLING HEIGHTS		State	MI
ZIP		48312			
2 To					
Recipient's Name		Phone 800-522-3025			
Company		UNITED STATES NUCLEAR REGULATORY COMMISSION			
Address		REGION III			
Address		2443 WARRENVILLE RD. # 210			
City		LISLE IL		State	IL
Country		U.S.A.		ZIP	60532-4351

From:		CARDIOVASCULAR CONSULTANTS		Ship Date: 25APR11	
37771 SCHOENHERR RD		STERLING HEIGHTS MI 48312		ActWgt: 0.4 LB	
(586) 698-1200				CAD: 9612/OFFC1201	
TO		U S Regulatory Commission		(248) 821-0038	
REGION LLL		STE 210		FedEx Ground	
LISLE, IL 60532		(US)		G	
Ref:		Qty:		Pg:	
1		of		1	
					
					
(9612418) 4687046 15048326					
GND		DIRECT SIGN			
3rd PARTY					

Photos - Do Not Bend

REGION LLL		STE 210		LISLE IL	
411.421.433.445.449		60532		400-ODD	
ETP:1		9612418468704615048326 116 06:21 2448033			