



HARRY T. COLFER, MD, FACC
ANDREW H. TEKLI NSKI, MD
JENNIFER JENSEN, RN, MSN, FNP-C

560 West Mitchell ☎ Suite 500 ☎ Petoskey, MI 49770 ☎ (231) 487-2493 ☎ (231) 487-2593 FAX
www.cardiologyconsultants.us ☎ info@cardiologyconsultants.us

March 5, 2010
UNITED STATES NUCLEAR REGULATORY COMMISSION
Region III, Materials Licensing Section
2443 Warrenville Road
Suite 210
Lisle, IL 60532-4352

Dear Sir/Madam:

Please terminate our NRC License No. 21-24901-01, Cardiology Consultants, P.C.

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

Thank you for your cooperation with this matter. If you have any questions or require additional information please contact our physics consultant, Michelle Kritzman, at (734)622-3197.

Sincerely,



Dr. Harry T. Colfer, MD
President
Cardiology Consultants, PC

Close-out Survey Information

Close-out Location:

Cardiology Consultants, P.C.
560 West Mitchell, Suite 500
Petoskey, MI 49770

Date performed: February 19 and 26, 2010

Performed by: James Carson, CNMT

Comments: This location was used for 35.200 activities. The isotopes used for imaging were Tc-99m and Tl-201. The last day of use for Tc-99m was on 12/28/2009. The last day of use for Tl-201 was on 12/30/2009. All sealed sources were removed on 2/26/2010.

Instruments:

Wipe tests analyzed on the following Well counter:

Instrument: CAPTUS 3000 S/N 900271

Spectrum: Full Spectrum

Efficiency Full Spectrum: 40%

Area survey performed with the following survey meter:

Manufacturer:	<u>Ludlum</u>
Type:	<u>GM</u>
Model Number:	<u>14C</u>
Serial Number:	<u>180556</u>
Probe Model:	<u>End Window</u>
Check source value:	<u>0.7mR/hr</u>

Radionuclides Used:

Unsealed

Tc-99m

Tl-201

Sealed

Cs-137

Ba-133

Co-57

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 department demonstrated radiation levels in excess of the background reading of 0.02 mR/hr.

Removable Contamination: No area within the department demonstrated removable contamination in excess of 132 dpm's.

Surveys, Wipes, and Diagrams are enclosed for review.

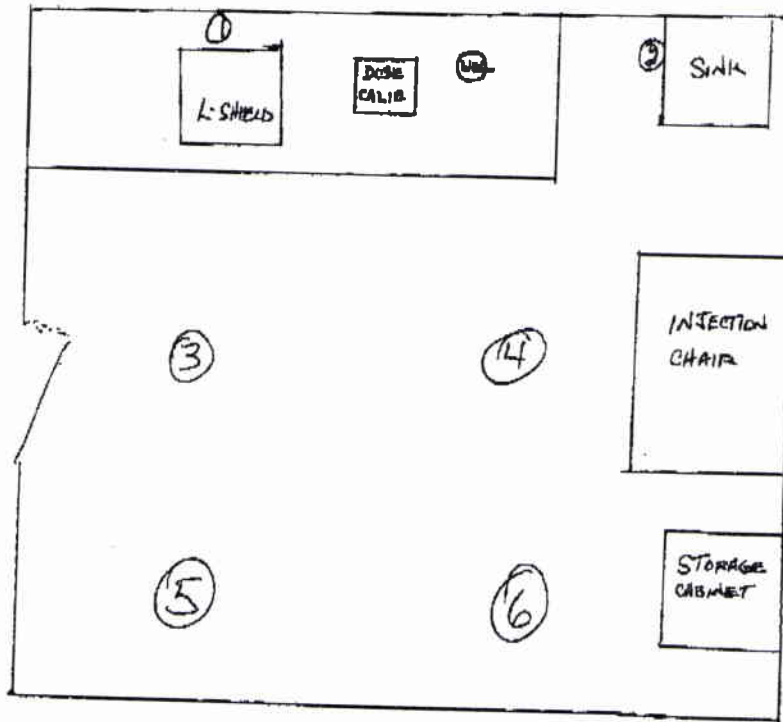
Conclusion: No radioactive materials remain in this area. No removable contamination is present.

Cardiology Consultants, P.C.				
License # 21-24901-01				
Date: 2/19/2010		Performed By: J. Carson, CNMT		
Survey Meter: Ludlum 14C		Check Value: 0.7 mR/hr		
		net cpm	net dpm	mR/h
Hot Lab				
1	Counter Top	23	57	0.02
2	Floor & Sink	23	57	0.02
3	Floor	23	57	0.02
4	Floor & Injection Chair	15.8	0	0.02
5	Floor & Storage Cabinet	15.8	0	0.02
6	Floor	15.8	0	0.02
Stress Lab				
1	Bed	48	120	0.02
2	Sink	48	120	0.02
3	Treadmill	48	120	0.02
4	Cabinet & Computer	0	0	0.02
5	Floor	0	0	0.02
6	Floor	0	0	0.02
7	Floor	29	72	0.02
8	Floor	29	72	0.02
9	Floor	29	72	0.02
10	Floor	43	107	0.02
11	Floor	43	107	0.02
12	Floor	43	107	0.02
13	Floor	43	107	0.02
Camera Room				
1	Desk	14	35	0.02
2	Desk	14	35	0.02
3	Computer	14	35	0.02
4	Computer	5	12	0.02
5	Camera	5	12	0.02
6	Table	5	12	0.02
7	Floor	17	42	0.02
8	Floor	17	42	0.02
9	Floor	17	42	0.02
10	Floor	13	32	0.02
11	Floor	13	32	0.02
12	Floor	13	32	0.02
13	Chair	53	132	0.02
14	Floor	53	132	0.02
15	Floor	53	132	0.02
16	Floor	53	132	0.02
	Background	479.2		0.02
Conversion factor 2.5 dpm/cpm				
COMMENTS: No evidence of removable contamination.				

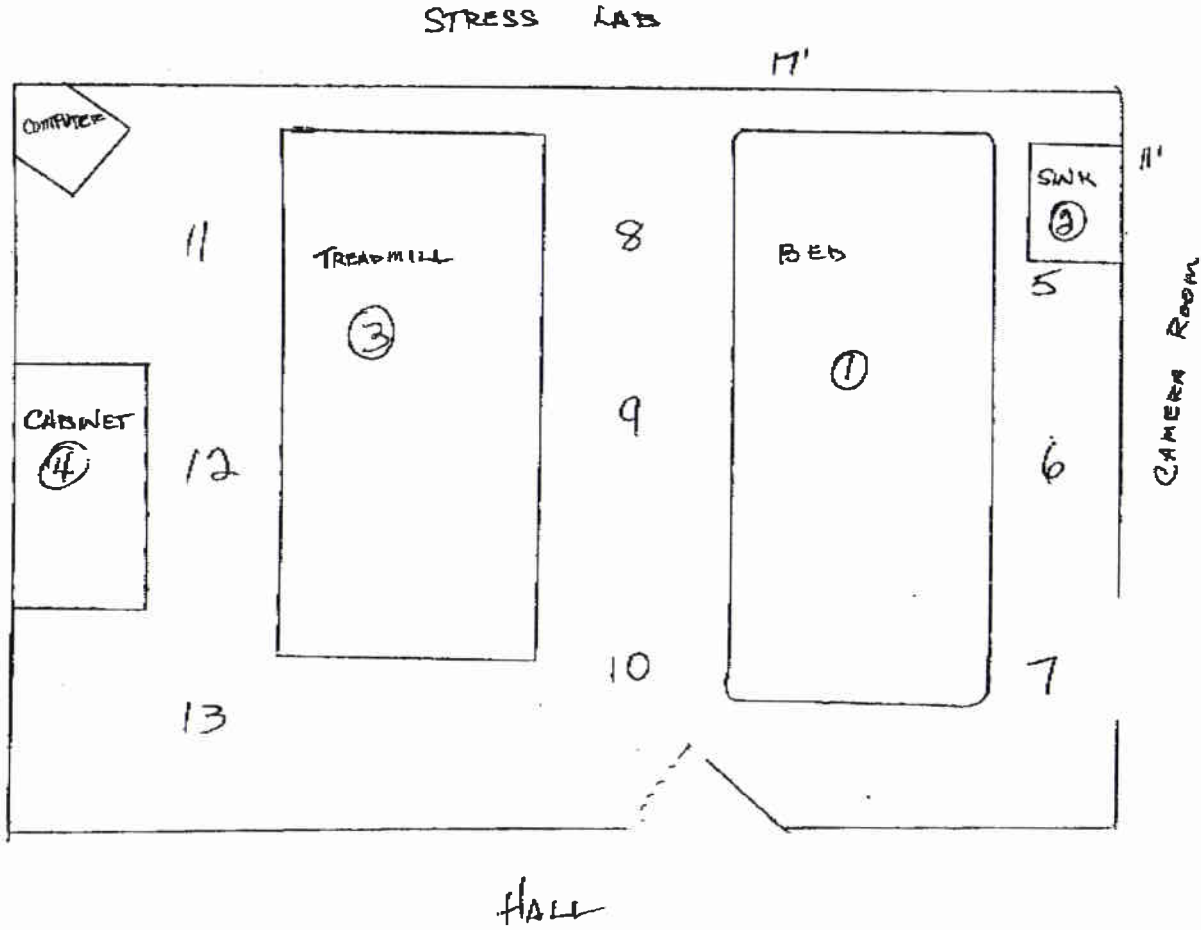
Cardiology Consultants, P.C.				
License # 21-24901-01				
Date: 2/26/2010		Performed By: J. Carson, CNMT		
Survey Meter: Ludlum 14C		Check Value: 0.7 mR/hr		
		net cpm	net dpm	mR/h
Hot Lab				
1	Floor	0	0	0.02
2	Counter Top	0	0	0.02
	Background	475		0.02
Conversion factor 2.5 dpm/cpm COMMENTS: No evidence of removable contamination.				

Cardiology Consultants, P.C.
560 West Mitchell, Suite 500
Petoskey, MI 49770

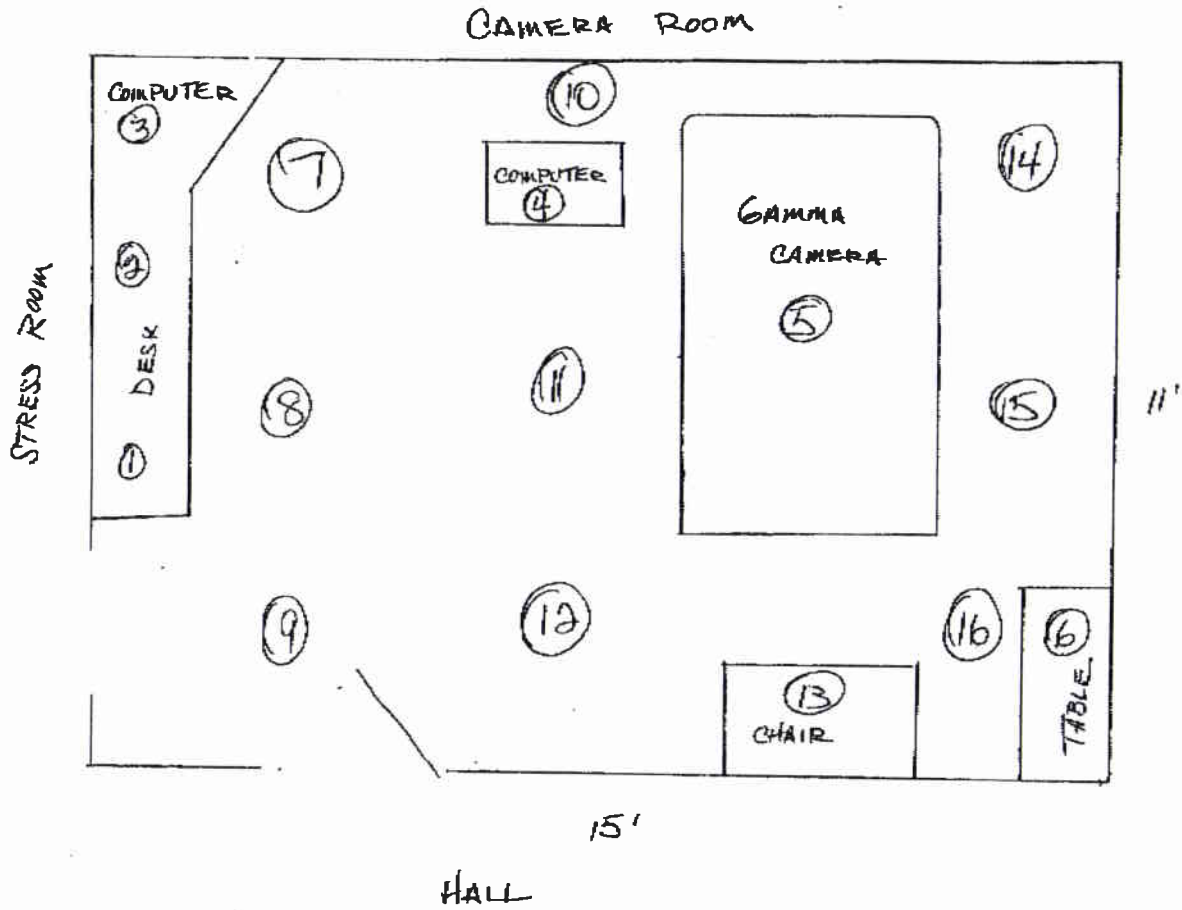
HOT LAB



Cardiology Consultants, P.C.
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Petoskey, MI 49770



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Petoskey, MI 49770





HAZMAT Employee Training
Hazardous Materials Shipping Paper- Normal Form Materials

To: Date: 2-26-2010
 Facility CARDIAC INSTITUTE DBA MICHIGAN HEART & VASCULAR SPECIALISTS
 License # 21-32345-01
 Address 560 W. MITCHELL, ST 400 PETERSBURG, MI 49770
 Contact Person JAMES CARSON RN/RT
 Phone 231-487-5878

From:
 Facility CARDIOLOGY CONSULTANTS, P.C.
 License # 21-24901-01
 Address 560 W. MITCHELL ST. 500 PETERSBURG, MI 49770
 Contact Person HAROLD COLFER MD
 Phone 231-487-5886

Radioactive Material, Type A package, non special form, non fissile, or fissile excepted	Isotope(s)	Quantity (MBq)	Quantity and Type of Package(s)	Label (circle one)	Transport Index (exp @ 1 meter - only for Yellow II)
Class 7 Radioactive Material UN 2915	Cs-137 VIAL SOURCE	6,807	1 Type A container	White I or Yellow II	
	Bc-133 VIAL SOURCE	4,977			

Survey Results:

Contamination:

Wipe Results in DPM/300 cm² 0
 Instrument Used CAPTEC CRC-150 MO310
 (must be less than 6600 dpm in 300 cm² swipe)

Exposure:

0.8 mR/hr at surface
0.02 mR/hr at 1 meter
 (white I - <= 0.5 @ surface, bkg @ 1m.)
 (yellow II - 0.5- 50 @ surface, <1 @ 1m.)

Shipper's Certification:

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

James Carson 2-26-10
 Signature Date

EMERGENCY RESPONSE NUMBER 231-487-5878

NOTE: SOURCES PLACED IN DOSE TRANSPORT AMMO CAN. AND CARRIED FROM CARDIOLOGY CONSULTANTS TO CARDIAC INSTITUTE WITHIN THE SAME BUILDING BY JAMES CARSON, RSO, WITHOUT INCIDENT.

UPON AERIAL AT CARDIAC INSTITUTE:
 EXPOSURE: 0.02 mR/hr @ 1 meter
0.8 mR/hr @ surface
 WIPE: 0 DPM/300 cm²

James Carson RSO



HAZMAT Employee Training
Hazardous Materials Shipping Paper- Normal Form Materials

To: CARDIAC INSTITUTE
 Facility DBA MICHIGAN HEART & VASCULAR SPECIALISTS
 License # 21-34345-01
 Address 560 W. MITCHELL ST. 400, PETERSBURG, MI 49770
 Contact Person JAMES CARSON CNMT
 Phone 231-487-5878

From: CARDIOLOGY CONSULTANTS, PC
 Facility CARDIOLOGY CONSULTANTS, PC
 License # 21-24901-01
 Address 560 W. MITCHELL ST. 500 PETERSBURG, MI 49770
 Contact Person HAROLD COLFER MD
 Phone 231-487-5886

Radioactive Material, Type A package, non special form, non fissile, or fissile excepted	Isotope(s)	Quantity (MBq)	Quantity and Type of Package(s)	Label (circle one)	Transport Index <small>(exp @ 1 meter - only for Yellow II)</small>
Class 7 Radioactive Material UN 2915	Co-57 FLOOD SOURCE	12.25	1 Type A container	White I or Yellow II	
	Co-57 FLOOD SOURCE	57.91			

Survey Results:

Contamination:

Wipe Results in DPM/300 cm² 20
 Instrument Used CAPWTEC CRC-15W #170310
(must be less than 6600 dpm in 300 cm² swipe)

Exposure:

0.15 mR/hr at surface
0.03 mR/hr at 1 meter
(white I- <= 0.5 @ surface, bkg @ 1m.)
 (yellow II- 0.5- 50 @ surface, <1 @ 1m.)

Shipper's Certification:

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

James Carson
 Signature

2-26-10
 Date

EMERGENCY RESPONSE NUMBER 231-487-5878

NOTE: SOURCES WALKED FROM RADIOLOGY CONSULTANTS OFFICE TO CARDIAC INSTITUTE WITHIN THE SAME BUILDING BY JAMES CARSON, RSO, WITHOUT INCIDENT. SOURCES WERE IN THEIR LEAD STORAGE CASES. James Carson RSO

UPON ARRIVAL AT CARDIAC INSTITUTE:

EXPOSURE:

0.15 mR/hr @ SURFACE
0.03 mR/hr @ 1 METER

WIPE: 0 DPM/300 CM²

Name: CARDIOLOGY CONSULTANTS

Date: 7-26-2010 Performed By: J. CARSON

Survey Meter: LUDUM-14C #780556 Check Value: 0.7 mR/hr

	Location	Survey Results (mR/hr)
1	HOT LAB FLOOR	0.02 mR/hr
2	HOT LAB COUNTER TOP	0.08 mR/hr
3		
4	SURVEYS AFTER REMOVAL OF RADIOACTIVE SOURCES	
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21		



Michigan
Heart & Vascular
Specialists

FAX COVER SHEET

DATE 5-19-10	TIME 11:00 AM	PAGES 13
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TO
US NRC
ATTN: MATERIAL LICENSING

PHONE
FAX 630-824-9782

03029838

FROM
Michigan Heart & Vascular Specialists
560 West Mitchell, Suite 400
Petoskey, Michigan 49770
231-487-2490 Fax 231-487-6055

TRANSMITTED BY J. CARSON CUNT 231-487-5878

MESSAGE
THIS PACKET WAS ORIGINALLY FAXED ON 3-22-10
BY ME. I AM TOLD IT WAS NOT RECEIVED AND SO AM SENDING
THEM AGAIN.
James J. Carson CUNT
RSO
MICHIGAN HEART + VASCULAR SPECIALISTS

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