

DATE: Wed. Nov. 18th, 2009

TO: Jose Macatangay FAX # 630-515-1078

FROM: CARDIOLOGY SPECIALIST, PC Shannon Frey CNMT / Marybeth Dieckman

TOTAL # OF PAGES (INCLUDING THIS PAGE): 11

Materials Licensing Branch US NRC

Information regarding close out survey and wipe results Aug. 26th, 2009

IF YOU DO NOT RECEIVE ALL OF THE PAGES,
PLEASE CALL US AS SOON AS POSSIBLE.
THANK YOU.

NOTES: Copy of this was mailed 11-18-09

Thank you and please contact with any questions!



625 S. NEW BALLS ROAD
SUITE 7020
ST. LOUIS, MO 63141
PHONE: (314) 447-1301
FAX: (314) 447-1310



Note: This facsimile contains information which (a) may be LEGALLY PRIVILEGED, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) is intended only for the use of the addresses(s), and are hereby notified that reading, copying, or distributing this facsimile is prohibited. If you have received this facsimile in error, please telephone us immediately and mail the facsimile back to us at the address above. Thank you.

Cardiology Specialists

Nuclear Medicine
15 Professional Bldg.
Maryville, IL 62062

Survey Summary Check Report - Wipes

8/26/09 to 8/26/09

No. 6416 P. 2

Location: Cardiology Specialist St Louis

Area Wipe Survey Wipe test Weekly Wipe Test

Survey Area	Reading: Cpm	Date:	08/26
2009	Efficiency%	Time:	16:05
	Net results: Dpm	Bkgnd:	228 gross bkgnd cts.
	Action Level		
Survey Instrument Lab-ID/Initials:		na/SF	

2	DOSE PREP AREA	42	cpm
		86.9	%
		0	Net dpm
3	HOT LAB FLOOR	500	Action level
		42	
		86.9	
		0	
4	SINK	500	
		42	
		86.9	
		0	
5	INJECTION AREA	500	
		42	
		86.9	
		0	
		200	
7	FLOOR IMAGING AREA 1	42	
		86.9	
		0	
		200	
6	BED IMAGING AREA 2	42	
		86.9	
		0	
		200	
8	STRESS AREA	42	
		86.9	
		0	
		200	
	STORAGE	42	
		86.9	
		0	
		200	

228 represents the gross number of counts. The wipe results are net after the background has been subtracted. The net cpm is listed first followed by the efficiency %, net dpm results and action level.

Nov. 18. 2009 3:58PM

Radiation Safety Officer: _____

Location: Cardiology Specialist St Louis

Survey Instrument List for summary reports

Lab ID	Instrument	Make	Model	Serial number	Last calibration
	Capintec CRC15-W	Capintec	CRC15-W	172005	8/13/09

Personnel Legend

SF Shannon Frey

No. 6416 P. 3

Nov. 18. 2009 3:58PM

Radiation Safety Officer: _____

Location: Cardiology Specialist St Louis

Area Meter Survey Survey test Daily Survey Test

Survey Area Net results: mR/Hr Date: 08/26
2009 Action Level Time: 16:03
Bkgnd: 0.02 mR/hr

Survey Instrument Lab-ID/Initials: na/SF

DOSE PREP AREA 0
0.1
INJECTION AREA 0
0.1
STRESS AREA 0
0.1
FLOOR IMAGING AREA 1 0
0.1
BED IMAGING AREA 2 0
0.1
HOT LAB FLOOR 0
1
SINK 0
1
STORAGE 0
1
TECHNOLOGIST HANDS & FEET 0
0.1

Survey Instrument List for summary reports

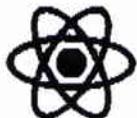
Lab ID	Instrument	Make	Model	Serial number	Last calibration
	Ludlum 14-C	Ludlum	14_c	243495	5/19/09

Personnel Legend	
LS	Lindy Sink
SF	Shannon Frey

Radiation Safety Officer: _____

P. 4
No. 6416

Nov. 18. 2009 3:58PM



Radiation Protection Services, Ltd.

Serving Radiology, Nuclear Medicine, Therapy and Industry



1405 Stevenson Drive-Suite 11
Springfield, Illinois 62703

Phone: (217) 786-3839
Fax: (217) 786-3110

INSTRUMENT CALIBRATION CERTIFICATE

Facility: Cardiology Specialists, PC **Date Performed:** May 19, 2009

Address: St. Louis, MO

Instrument Information

Probe Information

Mfr.: Ludlum
Model #: 14 C
Serial #: 243495

Mfr.: Ludlum
Type: Pancake G.M.
Model #: 44-9
Serial #: 257691

Calibration Data

Scale	Distance cm	Radiation Level mR/Hr.	Meter Readings mR/Hr.	Correction Factor	Distance cm	Radiation Level mR/Hr.	Meter Readings mR/Hr.	Correction Factor
X 0.1	119	0.05	0.05	N/A	137	0.15	0.15	N/A
X 1	119	0.5	0.6	N/A	137	1.5	1.5	N/A
X 10	119	5.0	5.0	N/A	137	15	17	N/A
X 100	37.5	50	50	N/A	14.2	140	145	N/A
X 1000	26.6	400	400	N/A	14.2	1400	1350	N/A

NBS Source Used:
Cs¹³⁷ 145.7 mCi as of 02/19/87

Present Activity:
87.2 mCi as of: 05/19/09

Check Source Reading	Check Source Nuclide	Distance
<u>1.4</u> mR/hr.	<u>Instrument</u>	<u>Contact</u>

Maintenance:	Batteries Tested:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Comments
	Batteries Replaced:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
	Contacts Cleaned:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

Meets current N.R.C./State standards.
 Does not meet current N.R.C./State standards (see comments).

Recalibration Due: MAY 31, 2010

Performed By: Maury Neuweg
Radiation Physicist

Test performed under License # IL-01799-01

Facility R.S.
CITIZENSHIP CALIBRATION 10/98



Radiation Protection Services, Ltd.



Serving Radiology, Nuclear Medicine, Therapy and Industry

1405 Stevenson Drive-Suite 11
Springfield, Illinois 62703

Phone: (217) 786-3839
Fax: (217) 786-3110

SEALED SOURCE WIPE/LEAK TEST

Facility: Cardiology Specialists, P.C.

NRC License #: 24-32650-01

Address: St. Louis, Missouri

State License #: _____

Date Performed: May 14, 2009

By: Thomas Schlarman, Rad. Physicist

Date Analyzed: May 18, 2009

By: Maury Neuweg, Radiation Physicist

SOURCE INFORMATION					
Nuclide:	Cs-137	Activity:	206.7 uCi	Manufacturer:	I.P.L.
Model #:	RV 137-200U	Serial #:	121828-18	Assay Date:	Aug. 01, 2007
Location:	Hot Lab	Holder:	Vial		

Test Data: Background CPM 8

Sample #	Sample Location	Net CPM	DPM **	Results uCi ***	Comments
1	Source Exterior	-0-		M	
2					
Standard Used	Cs-137 0.1 uCi		Standard CPM:	15600	

CONCLUSION:

X	Results of these tests <u>do not indicate the presence</u> of reportable removable radioactivity (less than 0.005 uCi).
	Results of these tests <u>indicate the presence</u> of reportable removable radioactivity (greater than 0.005 uCi). See attached recommendations.

NEXT WIPE/LEAK TEST DUE: November 30, 2009

- * Counts per minute
- ** Disintegrations per minute
- *** M = < 0.005 microcuries

Reviewed By: Maury Neuweg
Radiation Physicist

Facility R.P.C. [Signature]

Test performed under License # IL-01799-01



Radiation Protection Services, Ltd.

Serving Radiology, Nuclear Medicine, Therapy and Industry



1405 Stevenson Drive-Suite 11
Springfield, Illinois 62703

Phone: (217) 786-3839
Fax: (217) 786-3110

SEALED SOURCE WIPE/LEAK TEST

Facility: Cardiology Specialists, P.C.

NRC License #: 24-32650-01

Address: St. Louis, Missouri

State License #: _____

Date Performed: May 14, 2009

By: Thomas Schlarman, Rad. Physicist

Date Analyzed: May 18, 2009

By: Maury Neuweg, Radiation Physicist

SOURCE INFORMATION					
Nuclide:	Co-57	Activity:	10.0 mCi	Manufacturer:	I.P.L.
Model #:	NES 8496-10M	Serial #:	1252-048	Assay Date:	Aug. 01, 2007
Location:	Hot Lab	Holder:	Flood		

Test Data: **Background CPM*** 22

Sample #	Sample Location	Net CPM	DPM**	Results uCi***	Comments
1	Source Front	1	1	M	
2	Source Back	3	3	M	
Standard Used	Co-57 0.11 uCi		Standard CPM:	15605	

CONCLUSION:

<input checked="" type="checkbox"/>	Results of these tests <u>do not indicate</u> the presence of reportable removable radioactivity (less than 0.005 uCi).
<input type="checkbox"/>	Results of these tests <u>indicate</u> the presence of reportable removable radioactivity (greater than 0.005 uCi). See attached recommendations.

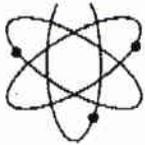
NEXT WIPE/LEAK TEST DUE: November 30, 2009

- * Counts per minute
- ** Disintegrations per minute
- *** M = < 0.005 microcuries

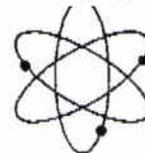
Reviewed By: Maury Neuweg
Radiation Physicist

Facility R.S.O. [Signature]

Test performed under License # IL-01799-01



Radiation Protection Services, Ltd.
 Serving Radiology, Nuclear Medicine, Therapy and Industry



1405 Stevenson Dr., Suite 11
 Springfield, Illinois 62703

Phone: (217) 786-3839
 Fax: (217) 786-3110

Well Counter Efficiency Determination

Institution:	Cardiology Specialists, PC	Address:	St. Louis, MO	
Well Counter:	Capintec	Model/Serial #:	CRC15W	172005
Date:	8/13/2009		Calibrated on this date	

1 minute count period:

Standard Used:	Assay: (uCi)	Assay Date:	Channels Used:	Measured Correction Factor:	Efficiency: %
Cs137	0.5	10/1/2007	3,4,5	6.44	15.5
Co57	0.5355	6/1/2006	2	1.15	86.9

Gain Ref:	0877
-----------	------

For wipe testing analysis:

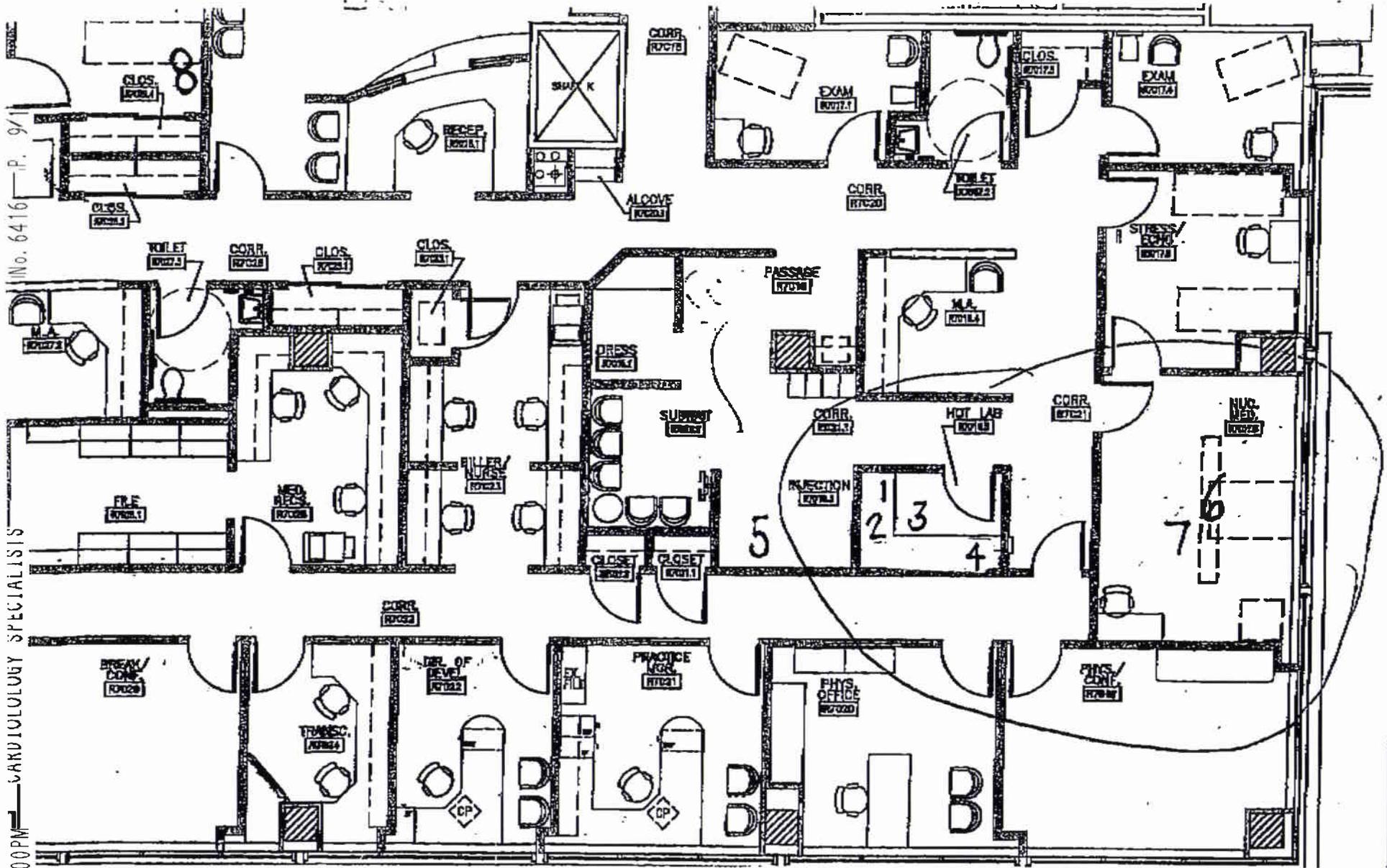
CPM	X	Correction Factor	=	DPM
CPM	X	1.15	=	DPM

Daily Check:	Cs137 Std.	±5% contancy range (nCi)
Measured(nCi):	475	451-499

Performed By:	<i>T Schlarmann</i>
	TOM SCHLARMAN, RADIATION PHYSICIST

No. 6416 P. 9/1

Nov. 18. 2009 4:00PM - CARDIOLOGY SPECIALISTS



HEART HOSPITAL

Old location :

- RAM SHIELDED STORAGE
- PREP AREA
- DOSE CALIBRATOR
- WELL COUNTER
- WASTE SHIELDED STORAGE UNDER COUNTER.



Ref. license # 24-32650-01

September 16, 2009

U.S. Nuclear Regulatory Commission
Materials Licensing Section, Region III
2443 Warrenville Road
Suite 210
Lisle, IL 60532

To whom it may concern:

This is to request an expedited review of an amendment request to the radioactive materials license for Cardiology Specialists, P.C., in St. Louis, MO. This is follow-up information to the amendment request submitted in July, 2009, regarding addition of a new address to the radioactive materials license. The new address was added in amendment number 1. The following is submitted for your review:

1. The former office at 625 South New Ballas Road, Suite 7020 is being closed. Diagnostic studies have been terminated and all radioactive materials have been moved to the new location at 3023 North Ballas Road, Suite 400D in St. Louis. As such, we request that the location at 625 South New Ballas Road, Suite 7020 be released for unrestricted use. In addition, please remove this address from the RAM license. No further business will be conducted at this location.

The mailing address for all correspondence and the RAM license will be:

Cardiology Specialists, PC
Suite 400D
3023 North Ballas Road
St. Louis, MO 63131

2. The primary radionuclide used at this location was Tc-99m. Only diagnostic studies were performed at this site.

3. Enclosed, please find the close out area survey and wipe test results. No residual activity was found. Area surveys were performed using a Ludlum 14C survey meter, serial number 182853. The survey meter was calibrated on May 19, 2009. The contamination wipe tests were performed using a Capintec CRC15W NaI scintillation well counter. The well counter was last calibrated on August 13, 2009 and possesses an efficiency of 86.9% for low energy nuclides. All closeout results were found to be at background levels. Also enclosed is a floor plan showing where area surveys and wipe testing were performed.

4. Two sealed sources (206uCi-Cs137 and 10mCi-Co57) have been transferred to the new address. Both sources were leak tested on May 14, 2009 with satisfactory results.

If you have any questions concerning the matter, please contact our office. Thank you.

Sincerely,

Marybeth Dieckmann

Enclosures:

Survey results
Wipe test results
Floor plan diagram