MATERIALS LICENSING BRANCH UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION III

2443 WARRENVILLE ROAD STE 210

LISLE, ILLINOIS 60532-4352

OFFICE: (630)-829-9892 FAX: (630) 515-1078

CONVERSATION ACTUALLY F	AXED?	ES _c	03	24 2010
NAME OF PERSON(S) Marcia West,	CONTACTED	ORGANIZATION Kansas City Cardiolo	gy Associates, Inc.	TELEPHONE NO. O: 816-807-8090 F: 816-974-1443
SUBJECT License No.:	24-32245-01	Control No.:	318779	
SUMMARY				

We have reviewed your license amendment request/transfer of ownership dated January 27, 2010, and find that we need additional information as follows:

1. You requested to have 6420 Prospect Avenue, Suite T-509, Kansas City, Missouri to be removed from your license. We cannot authorize licensees to release the areas (excepting areas covered by 10 CFR 35.13(e) and 35.14(b)(4)) or locations of use from licenses for unrestricted use (even by other members of their staff) until we have received and reviewed a copy of the results of decommissioning and close-out surveys for the facilities.

Please respond by stating exactly which licensed materials were used at this location historically and please submit final status survey information covering those radioactive materials.

The final status survey should consist of exposure rate measurements to show that all sources of radioactive material have been removed, and contamination checks of areas where radioactive materials were used or stored.

Please submit the following information with your close-out survey (refer to 10 CFR 30.36(j)(2)):

- a. Diagrams of each facility with exposure rate survey and wipe test results keyed to specific locations, as appropriate.
- b. The name of the person performing the survey.
- c. The date the survey was performed.
- d. The instrument(s) used for exposure rate measurements and for analysis of the wipes.
- e. Background readings and each instruments' efficiency or correction factor.
- f. The date(s) that the survey instruments were last calibrated.

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- g. The action levels for both exposure rate measurements and wipe tests. Include the identity of areas exceeding these levels, corrective actions taken and results of corrective actions taken.
- 2. Also, in order to release as an unrestricted area of use, please provide the most current leak test results for your sealed sources.

We will be unable to continue processing your request until we receive this information. In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice, " a copy of this letter will be available electronically in the NRC Public Document Room or from the Publicly Available Record (PARS) component of NRC's document system (ADAMS) accessible from the NRC Website at http://www.nrc.gov/reading-rem/adams.html.

ACTION REQUIRED

Please submit a written response within 7-days or contact me to arrange an alternate response date. Be sure to reference control number 318779 to facilitate correct processing of your response.

If we do not receive a written response within 7-days, please note that we may void this request in order to enable you to prepare a quality response without time constraints. This would be done without prejudice to the resubmission of your request at a later date. Upon receipt of your response we will resume our review. Address your written response to my attention at the above address.

Please note that a "Void" is an administrative procedure that puts your amendment request "On Hold" (takes it out of our active casework database) until you reactivate it via submission of a written response.

Upon receipt of your response we will resume our review.

NAME OF PPERSON DOCUMENTING CONVERSATION

Jose Macatangay

PLEASE DIRECT ANY QUESTIONS YOU MAY HAVE TO ME AT (630) 829-9892.

Lose Macatangory

03/24/2010 Conversation w/ Marzia West, consultant:
Sooks wil Marcia west & indicated that we have not received the close-out
Ms. west indicated that she would be able to send this shouthy
Ms. West indicated than sine would be add to send this should
(by week of 03/29/2010).
#3/24/2010 convergation w David Ireland, CFO of KC Cardiology:
Since Marcia West, aussultent, was only as the fax cover, I verified with David Ire hand, (FO of Kansas (ity Cardiology Assoc, in that Ms. West was the health physicist consultant, Mr. I reland indicated that
David Ire hand, CFO of Kansons (ity Cardiology Assoc., Inc. that Ms. West
was the health shysicist consultant. Mr. Ireland indicated that
West was their health physicust consultant and can contact
Michael Companies Control Control Control
her about this request.
- V

Cardinal Health Medical & Health Physics Services 9668 Marion Ridge Kansas City, MO 64137 816.965.0330 tel 816.966.2040 fax

www.cardinal.com



January 5, 2010

Nuclear Regulatory Commission Medical Licensing Division, Region III 2443 Warrenville Road Lisle, IL 60532-4351

Dear Madam/Sir,

Please amend our Radioactive Materials License #24-32245-01 (Kansas City Cardiology Associates, Inc. 600 N.W. Murray, Ste 108; Lee's Summit, MO) to include the following change:

We have closed our prospect location at 6420 Prospect Avenue, Ste. T-509; Kansas City, MO 64132. The enclosed paperwork is all of the documents regarding the decommissioning that was performed.

As you can see from the overall map, the North and East walls are outside walls. The West wall was against another office area. The South wall was along a hallway for the patients to traverse through the office.

All of the sources were transferred to our Lee's Summit location to be used by that location or to be stored until another office can be opened up. A radionuclide history as well as maps and test results have all been included for your review. At this time, we ask that you please remove the prospect location from our license and release the area into public use.

Your attention in this matter is greatly appreciated. Should you have any additional questions, please contact me, Marcia West, at 816-807-8090 or by fax at 816-974-1443.

Sincerely,

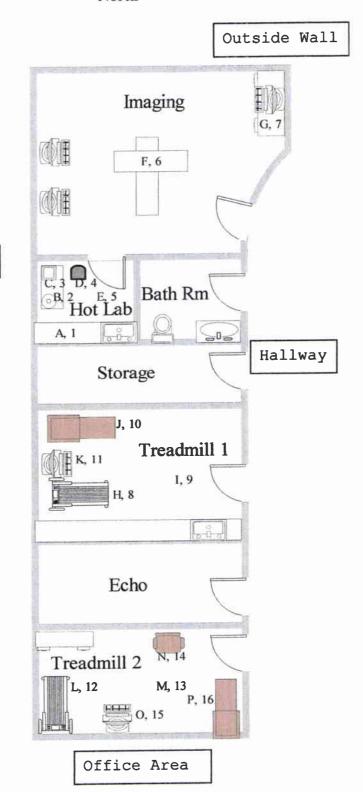
Marcia R. West

Regional Health Physicist

Kansas City Cardiology Associates- Prospect Location 6420 Prospect Avenue, Ste. T-509 Kansas City, MO 64132 12-14-2009

Overall View of Area Decommissioned

North



Rev.4 (January 1999)

Outside Wall

History of Radionuclides and Instruments

Kansas City Cardiology Associates 6420 Prospect Ave., Ste. T-509 Kansas City, MO 64132

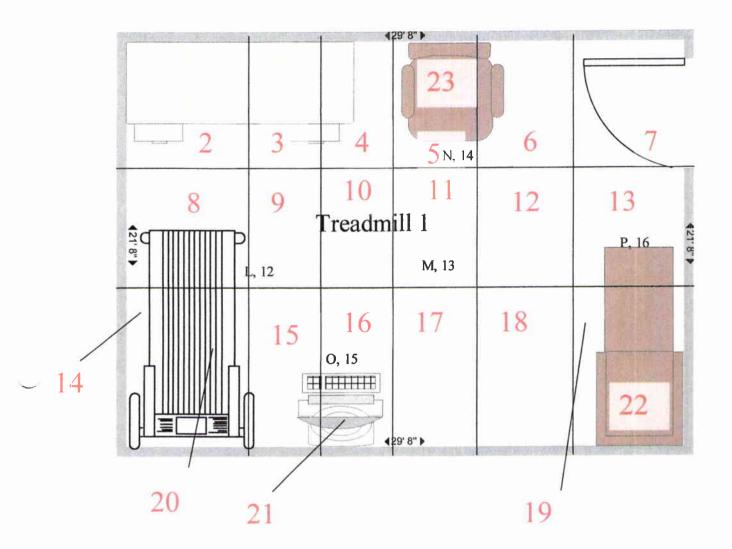
The only radionuclide used in any of the areas decommissioned was Technetium 99m. No other radionuclides were ever used.

All sealed sources were transferred to the Lee's Summit location for use/or storage until another facility is opened.

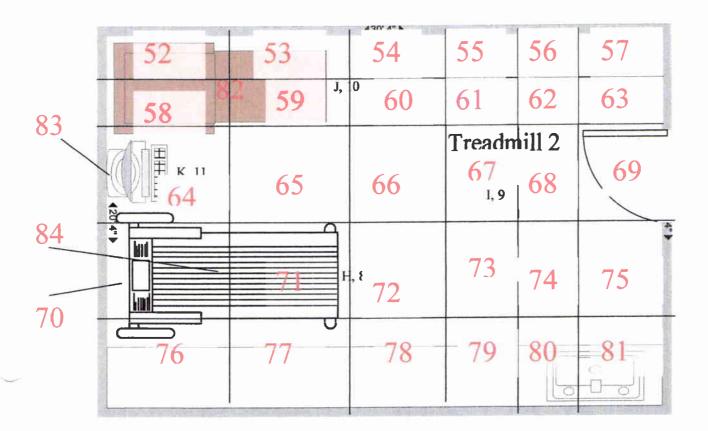
All of the paperwork regarding the transfer is on file and up to date.

The survey meter, dose calibrator, well counter, and other equipment were also moved to the Lee's Summit location and placed into storage.

Kansas City Cardiology – Prospect Decommissioning Wipes 12-14-09



Kansas City Cardiology – Prospect Decommissioning Wipes 12-14-09



CLOSE-OUT WIPE TEST

DATE:

14-Dec-09

LICENSEE:

Kansas City Cardiology - Prospect; Kansas City, MO

INSTRUMENT: Cobra II Auto Gamma MCA

LOCATION:

Treadmill Rms 1 and 2

Location	R	Results	Locat	tion	Results
1 Background	O	CPM (110-170 KEV)	35 Floor -	Treadmill Rm 2	<200 dpm/100 cm2
2 Floor - Treadmi		200 dpm/100 cm2	36 Floor	Treadmill Rm 2	<200 dpm/100 cm2
3 Floor - Treadmi		:200 dpm/100 cm2	37 Floor -	- Treadmill Rm 2	<200 dpm/100 cm2
4 Floor - Treadmi		200 dpm/100 cm2	38 Floor -	Treadmill Rm 2	<200 dpm/100 cm2
5 Floor - Treadmil	ll Rm 1 <	200 dpm/100 cm2	39 Floor -	Treadmill Rm 2	<200 dpm/100 cm2
6 Floor - Treadmi	Rm 1	200 dpm/100 cm2	40 Floor	Treadmill Rm 2	<200 dpm/100 cm2
7 Floor - Treadmi	II Rm 1 <	200 dpm/100 cm2	41 Floor -	Treadmill Rm 2	<200 dpm/100 cm2
8 Floor - Treadmil	11 Rm 1 <	200 dpm/100 cm2		Treadmill Rm 2	<200 dpm/100 cm2
9 Floor - Treadmi	11 Rm 1 <	200 dpm/100 cm2	43 Floor -	Treadmill Rm 2	<200 dpm/100 cm2
10 Floor - Treadmi	11 Rm 1 <	200 dpm/100 cm2	44 Floor	Treadmill Rm 2	<200 dpm/100 cm2
11 Floor - Treadmi	II Rm 1 <	200 dpm/100 cm2	45 Floor -	Treadmill Rm 2	<200 dpm/100 cm2
12 Floor - Treadmi	11 Rm 1 <	200 dpm/100 cm2	46 Floor	Treadmill Rm 2	<200 dpm/100 cm2
13 Floor - Treadmi	II Rm 1 <	200 dpm/100 cm2	.,	- Treadmill Rm 2	<200 dpm/100 cm2
14 Floor - Treadmi	II Rm 1 <	200 dpm/100 cm2	48 Floor -	Treadmill Rm 2	<200 dpm/100 cm2
15 Floor - Treadmi	ll Rm 1 <	200 dpm/100 cm2	49 Floor -	Treadmill Rm 2	<200 dpm/100 cm2
16 Floor - Treadmi	II Rm 1 <	200 dpm/100 cm2	50 Floor -	Treadmill Rm 2	<200 dpm/100 cm2
17 Floor - Treadmi	il Rm 1 <	200 dpm/100 cm2	51 Floor -	Treadmill Rm 2	<200 dpm/100 cm2
18 Floor - Treadmi	II Rm 1 <	200 dpm/100 cm2	52 Floor -	Treadmill Rm 2	<200 dpm/100 cm2
19 Treadmill - Trea	dmill Rm 1	200 dpm/100 cm2		Treadmill Rm 2	<200 dpm/100 cm2
20 EKG - Treadmil	1 Rm 1 <	200 dpm/100 cm2		Treadmill Rm 2	<200 dpm/100 cm2
21 Bed - Treadmill	Rm 1 <	200 dpm/100 cm2	55 Treadi	nill - Treadmill Rm 2	<200 dpm/100 cm2
22 Injection Chair -	Treadmill Rm 1 <	200 dpm/100 cm2			
23 Floor - Treadmi		200 dpm/100 cm2			
24 Floor - Treadmi		200 dpm/100 cm2			
25 Floor - Treadmi	ll Rm 2	200 dpm/100 cm2			
26 Floor - Treadmi	11 Rm 2 <	200 dpm/100 cm2			
27 Floor - Treadmi	11 Rm 2 <	200 dpm/100 cm2			
28 Floor - Treadmi		200 dpm/100 cm2			
29 Floor - Treadmi		200 dpm/100 cm2			
30 Floor - Treadmi		200 dpm/100 cm2			
31 Floor - Treadmi		200 dpm/100 cm2			
32 Floor - Treadmi		200 dpm/100 cm2			
33 Floor - Treadmi		200 dpm/100 cm2			
34 Floor - Treadmi	II Rm 2	<200 dpm/100 cm2			

REMARKS:

The above close-out wipe tests were acquired of the assigned areas. The sample areas consisted of a continguous wipe from a 3.0' X 3.0' area or approximately 8,400 cm2

PERFORMED BY:	2		

CLOSE-OUT AREA SURVEYS

DATE:

14-Dec-09

LICENSEE:

Kansas City Cardiology - Prospect; Kansas City, MO

INSTRUMENT: Ludlum Model 19 R meter (SN: 169637)

4/27/2009 CAL. DATE:

LOCATION:

Treadmill Rm's 1 and 2

Location	Results	Location	Results
1 Background	3-5 μR	35 Floor - Treadmill Rm 2	3-5 μR
2 Floor - Treadmill Rm 1	3-5 μR	36 Floor - Treadmill Rm 2	3-5 μR
3 Floor - Treadmill Rm 1	3-5 μR	37 Floor - Treadmill Rm 2	3-5 μR
4 Floor - Treadmill Rm 1	3-5 μR	38 Floor - Treadmill Rm 2	3-5 μR
5 Floor - Treadmill Rm 1	3-5 μR	39 Floor - Treadmill Rm 2	3-5 μR
6 Floor - Treadmill Rm 1	3-5 μR	40 Floor - Treadmill Rm 2	3-5 μR
7 Floor - Treadmill Rm 1	3-5 μR	41 Floor - Treadmill Rm 2	3-5 μR
8 Floor - Treadmill Rm 1	3-5 μR	42 Floor - Treadmill Rm 2	3-5 μR
9 Floor - Treadmill Rm 1	3-5 μR	43 Floor - Treadmill Rm 2	3-5 μR
10 Floor - Treadmill Rm 1	3-5 μR	44 Floor - Treadmill Rm 2	3-5 μR
11 Floor - Treadmill Rm 1	3-5 μR	45 Floor - Treadmill Rm 2	3-5 μR
12 Floor - Treadmill Rm 1	3-5 μR	46 Floor - Treadmill Rm 2	3-5 μR
13 Floor - Treadmill Rm 1	3-5 μR	47 Floor - Treadmill Rm 2	3-5 μR
14 Floor - Treadmill Rm 1	3-5 μR	48 Floor - Treadmill Rm 2	3-5 μR
15 Floor - Treadmill Rm 1	3-5 μR	49 Floor - Treadmill Rm 2	3-5 μR
16 Floor - Treadmill Rm 1	3-5 μR	50 Floor - Treadmill Rm 2	3-5 μR
17 Floor - Treadmill Rm 1	3-5 μR	51 Floor - Treadmill Rm 2	3-5 μR
18 Floor - Treadmill Rm 1	3-5 μR	52 Floor - Treadmill Rm 2	3-5 μR
19 Treadmill - Treadmill Rm 1	3-5 μR	53 Bed - Treadmill Rm 2	3-5 μR
20 EKG - Treadmill Rm 1	3-5 μR	54 EKG - Treadmill Rm 2	3-5 μR
21 Bed - Treadmill Rm 1	3-5 μR	55 Treadmill - Treadmill Rm 2	3-5 μR
22 Injection Chair - Treadmill Rm 1	3-5 μR		
23 Floor - Treadmill Rm 2	3-5 μR		
24 Floor - Treadmill Rm 2	3-5 μR		
25 Floor - Treadmill Rm 2	3-5 μR		
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30 Floor - Treadmill Rm 2	3-5 μR		
31 Floor - Treadmill Rm 2	3-5 μR		
32 Floor - Treadmill Rm 2	3-5 μR		
33 Floor - Treadmill Rm 2	3-5 μR		
34 Floor - Treadmill Rm 2	3-5 μR		

REMARKS:

The above area surveys were acquired of the assigned areas with a micro R meter. All readings fell within the room background reading of 3-5 $\mu R/hr$.

PERFORMED BY:

<u>453</u>3

MANSAS CITY CARDIO (PROSPECT) IN ROOM 1/IN ROOM 2

Count Time(minutes): 1.00

Assay Type:

Teen ID:

CPM

Background Subtract : IPA Bkg Outlier: 5.0 FLAS

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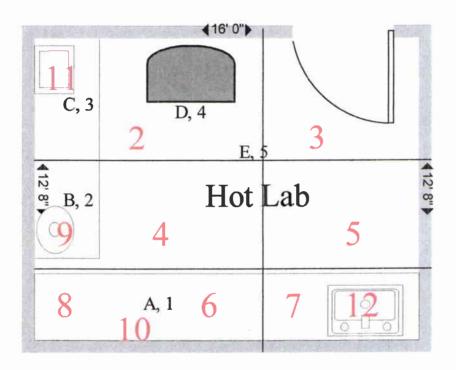
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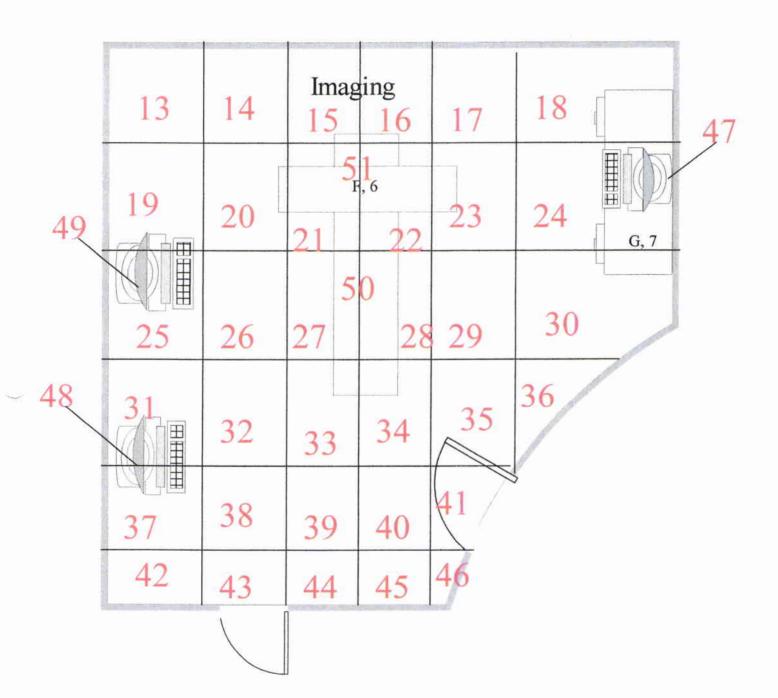
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Kansas City Cardiology – Prospect Decommissioning Wipes 12-14-09





CLOSE-OUT WIPE TEST

DATE:

14-Dec-09

LICENSEE:

Kansas City Cardiology - Prospect: Kansas City, MO

INSTRUMENT: Cobra II Auto Gamma MCA

LOCATION:

Hot Lab and Imaging

	Location	Results	Location	Results
1	Background	O CPM (110-170 KEV)	35 Floor - Imaging	<200 dpm/100 cm2
	Floor - Hot Lab	<200 dpm/100 cm2	36 Floor - Imaging	<200 dpm/100 cm2
	Floor - Hot Lab	<200 dpm/100 cm2	37 Floor - Imaging	<200 dpm/100 cm2
-	Floor - Hot Lab	<200 dpm/100 cm2	38 Floor - Imaging	<200 dpm/100 cm2
	Floor - Hot Lab	<200 dpm/100 cm2	39 Floor - Imaging	<200 dpm/100 cm2
	Floor - Hot Lab	<200 dpm/100 cm2	40 Floor - Imaging	<200 dpm/100 cm2
	Floor - Hot Lab	<200 dpm/100 cm2	41 Floor - Imaging	<200 dpm/100 cm2
	Well Counter - Hot Lab	<200 dpm/100 cm2	42 Floor - Imaging	<200 dpm/100 cm2
	Dose Calibrator - Hot Lab	<200 dpm/100 cm2	43 Floor - Imaging	<200 dpm/100 cm2
	Counter - Hot Lab	<200 dpm/100 cm2	44 Floor - Imaging	<200 dpm/100 cm2
	Receiving Area - Hot Lab	<200 dpm/100 cm2	45 Floor - Imaging	<200 dpm/100 cm2
	Sink - Hot Lab	<200 dpm/100 cm2	46 Floor - Imaging	<200 dpm/100 cm2
	Floor - Imaging	<200 dpm/100 cm2	47 Processing Comp - Imaging	<200 dpm/100 cm2
	Floor - Imaging	<200 dpm/100 cm2	48 Acquisition Comp - Imaging	<200 dpm/100 cm2
	Floor - Imaging	<200 dpm/100 cm2	49 Syntrac - Imaging	<200 dpm/100 cm2
	Floor - Imaging	<200 dpm/100 cm2	50 Camera Bed - Imaging	<200 dpm/100 cm2
	Floor - Imaging	<200 dpm/100 cm2	51 Camera Heads - Imaging	<200 dpm/100 cm2
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25	Floor - Imaging	<200 dpm/100 cm2		
26	Floor - Imaging	<200 dpm/100 cm2		
27	Floor - Imaging	<200 dpm/100 cm2		
28	Floor - Imaging	<200 dpm/100 cm2		
29	Floor - Imaging	<200 dpm/100 cm2		
30	Floor - Imaging	<200 dpm/100 cm2		
31	Floor - Imaging	<200 dpm/100 cm2		
32	Floor - Imaging	<200 dpm/100 cm2		
33	Floor - Imaging	<200 dpm/100 cm2		
34	Floor - Imaging	<200 dpm/100 cm2		

REMARKS:

The above close-out wipe tests were acquired of the assigned areas. The sample areas consisted of a continguous wipe from a 3.0' X 3.0' area or approximately 8,400 cm2

PERFORMED BY:	2	

CLOSE-OUT AREA SURVEYS

DATE:

14-Dec-09

LICENSEE:

Kansas City Cardiology - Prospect; Kansas City, MO

INSTRUMENT: Ludlum Model 19 R meter (SN: 169637)

CAL. DATE:

4/27/2009

LOCATION:

Hot Lab and Imaging

Location	Results	<u>Location</u>	Results
1 Background	3-5 μR	35 Floor - Imaging	3-5 μR
2 Floor - Hot Lab	3-5 μR	36 Floor - Imaging	3-5 μR
3 Floor - Hot Lab	3-5 μR	37 Floor - Imaging	3-5 μR
4 Floor - Hot Lab	3-5 μR	38 Floor - Imaging	3-5 μR
5 Floor - Hot Lab	3-5 μR	39 Floor - Imaging	3-5 μR
6 Floor - Hot Lab	3-5 μR	40 Floor - Imaging	3-5 μR
7 Floor - Hot Lab	3-5 μR	41 Floor - Imaging	3-5 μR
8 Well Counter - Hot Lab	3-5 μR	42 Floor - Imaging	3-5 μR
9 Dose Calibrator - Hot Lab	3-5 μR	43 Floor - Imaging	3-5 μR
10 Counter - Hot Lab	3-5 μR	44 Floor - Imaging	3-5 μR
11 Receiving Area - Hot Lab	3-5 μR	45 Floor - Imaging	3-5 μR
12 Sink - Hot Lab	3-5 μR	46 Floor - Imaging	3-5 μR
13 Floor - Imaging	3-5 μR	47 Processing Comp - Imaging	3-5 μR
14 Floor - Imaging	3-5 μR	48 Acquisition Comp - Imaging	3-5 μR
15 Floor - Imaging	3-5 μR	49 Syntrac - Imaging	3-5 μR
16 Floor - Imaging	3-5 μR	50 Camera Bed - Imaging	3-5 μR
17 Floor - Imaging	3-5 μR	51 Camera Heads - Imaging	3-5 μR
18 Floor - Imaging	3-5 μR		
19 Floor - Imaging	3-5 μR		
20 Floor - Imaging	3-5 μR		
21 Floor - Imaging	3-5 μR		
22 Floor - Imaging	3-5 μR		
23 Floor - Imaging	3-5 μR		
24 Floor - Imaging	3-5 μR		
25 Floor - Imaging	3-5 μR		
26 Floor - Imaging	3-5 μR		
27 Floor - Imaging	3-5 μR		
28 Floor - Imaging	3-5 μR		
29 Floor - Imaging	3-5 μR		
30 Floor - Imaging	3-5 μR		
31 Floor - Imaging	3-5 μR		
32 Floor - Imaging	3-5 μR		
33 Floor - Imaging	3-5 μR		
34 Floor - Imaging	3-5 μR		

REMARKS:

The above area surveys were acquired of the assigned areas with a micro R meter. All readings fell within the room background reading of 3-5 $\mu R/hr$.

PERFORMED BY:

Protocol #: 8

ech ID:

MOP

TXANSAS CITY CARDIO (PROSPECT) HOT LAB/IMAGING ROOM

Count Time(minutes): 1.00

Count Time(Minute),.

Assay Type: CPM

Background Subtract: IPA Skg

5.0 FLAG

Dilution Operator : 🔞

%Spillup: 0.00 %Spillidown: 0.00 Screening: CFF

		Window A			Window B	Window C
Nuclide:		Co-57	75 -	165 keV	MAN	562 - 762 leV MAN 15 - 2000 keV
Bkg:		42.3			35.2	307
Sigmal		9.00			6.00	<u>:</u> 60
LCR:		0			ŏ	9
Half Life(r lanuad	0.00			0.00	•
- Multiplier		2.0000			V 3 V V	
MEV Flas L		2.00			069	
ASSTRUME.	Late	5555			8,00	
SW	TIME	ALCEM	BICPM	DICHM	CCPM	PAT 11 D
1 · · · · · · · · · · · · · · · · · · ·	1.00	20	Ć,	4	$\mathcal{L}_{p}^{p}(\mathbb{Q})$	BACKGROUND
2	1.00	7	6	13	1.4	HET LAB FLOOR
3	1,00	0	5	P	Ç.	HOT KAB RLOOR
.41	1.00	2	0	Z	72	HOT HAD FLOOR
6	100	0	5	0	C	HOT LAB FLOOR
A	1.00	(5)	()	3.7	10	HOT LAR FLOOR
7	1.00	0	0	0	0	HOT AS FLOOR
용	1.00	8	4	9	14	WELL COUNTER
9 -	1.00	1.0	Q.	0	20	DOSE CALIBRATOR
<u> </u>	1.00	0	0	10	0	HOT, LAB COUNTER
11	1.00	5	*	20% ED	10	RECEIVING AREA
12	1.00	Ĭ.	(<u>)</u>	0	2	HCT LAB SINK
13	1.00	V.	0	0	0	IMAGINE ROOM & FLOOR
<u></u> 4	100	13	0	1.9	26	IMABING ROOM 1 FLOOR
n Si	1,00	0	0	2	0	IMAGINE ROOM 1 FLOOR
1.6	1,00	0	\bigcirc	0	0	IMABINS ROOM 1 FL107
17	1,00	0	0	1.7	0	IMAGING ROOM 1 FLOOR
18	1.00	(3)	0	2.7	1.15	IMAGINE ROOM 1 FUCER
<u> </u>	1.00	0	75	0	0	IMAGING ROOM & FLOOR
20	100	8		20	1.6	HAMBING ROOK 1 5LOGR
21	1.00	ା	4	1.	O	IMADINO ROOM 1 FLOOR
#3 #13 ##=##=	1:00	0	Ö	0	. 0	IMAGINE ROOM 1 FLOOR
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226 .	5.00	0	୍	0	\circ	RMAGIMG ROOM 1 FLOOR
27	1,00	C_{i}	0	0	0	IMAGENO ROCH 1 FLOOR
1202	1.00	5	39	I_4^{i}	5.0	IMAGINS ROOM 1 FLOOR .
G.	1.00	0	0	ା	\circ	IMAGINE ROOM 1 FLOOR
30	1.00	Ö	0	()	(2)	MAG,NG ROOM 1 HLOOR
31	1,00	ं	\circ	4	0	IMAZING ROOM 1 FLOGS

16 Pr	Dec :	2 <u>009 14</u> 1 #: 8	<u>: 52</u>	Ç	C <u>ardina</u> DECOMMI	<u>ıl Medic</u> SSIONIM	al & Health Physics NG WIPE	Page #2 User : MDP
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Cardinal Health Medical & Health Physics 9668 Marion Ridge Kansas City, Missouri 64137

Tel 816.965.0330 Fax 816.966.2040

Section 11 Form 117A

LEAK TEST CERTIFICATE

DATE: 11-24-2009

LICENSEE: Kansas City Cardiology Associates - Prospect location; Kansas City, MO

COUNTING INSTRUMENT: Packard Cobra II Auto Gamma (MCA)

NUCLIDE	TYPE	SERIAL#	ACTIVITY	RESULTS
1. Co ⁵⁷	Flood	1338-122	7.44 mCi	<0.005 μCi
2. Cs-137	Vial	788-87-3	173.8 μCi	<0.005 μCi

REMARKS: This wipe test samples taken from the sources listed above contained less than $0.005~\mu\text{Ci}$ of removable radioactive material. The sources are considered to be free of contamination and may remain in service until the next scheduled leak test.

NOTE: The Co-57 Flood Source with Serial Number 1256-009 was returned to the Manufacturer for disposal. All of the proper paperwork is on file in the Records Manual.

PERFORMED BY:	hand the same of t
	FOR: CARDINAL HEALTH MEDICAL & HEALTH PHYSICS
	State of Nebraska Registry Number: 50
R.S.O.:	

24 Nov 2009 10:47 Protocol #: 8

Cardinal Medical & Health Physics

Page #1

LEAK TEST

User : KM

Tech ID:

KANSAS CITY CARD ASSOC (PROSPECT); KANSAS CITY, MO

Count Time(minutes):

1.00

Assay Type:

CPN

Background Subtract :

IPA Bkg

Outlier:

5.0 FLAG

Dilution Operator :

%Spillup:

0.00 0.00

ZSpilldown:

Screening:

OFF

	Window A			Window B			Window C			
Nuclide:	Co-57	75 -	165 keV	MAK	562 -	762 teV	MAN	15	- 2000) keV
Bkg:	42.2			32.6			305			
Sigma:	0.00			0.00			1.00			
LCR:	0			0			0			
Half Life(hours):	0.00			0.00						
Multiplier:	2.0000									
ZCV Flag Limit:	0.00			0.00						

S#	TIME	A:CPM	B:CPM	C:CPM	CCPM	PAT/ID *
1	1.00	18	0	54	36	BACKGROUND
2	1.00	4	4	0	8	CO-57 FLOOD #1338-122
ত্র	1.00	0	0	0	0	CS-137 VIAL #788-87-3

S#	TIME	CPMA	DPM1	MDA at 95% CL:
1	1.00	18		
2	1.00	0	0	22.5 cpm above background
ર્ડ	1.00	0	0	

Cardinal Health
Medical & Health Physics Services
9668 Marion Drive
Kansas City, MO 64137





Nuclear Regulatory Commission Medical Licensing Division, Region III 2443 Warrenville Road Lisle, IL 60532-4351

Control no: 318779