



Cardinal Health
Medical & Health Physics Services
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February 12, 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 #24-15513-01 (Children's Mercy Hospital; 2401 Gillham Rd; Kansas City, MO 64108) to include the following change:

We have closed our pharmacology research lab. The enclosed paperwork is all of the documents regarding the decommissioning that was performed.

As you can see from the overall map, the North wall is within the cold research lab area. The West wall is along a walkway within the cold research lab area. The South wall is along a storage area. The East wall is along a hallway for employees of the pharmacology area.

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 pharmacology research lab location from our license as an area of use 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,

A handwritten signature in black ink, appearing to read "Marcia R. West".

Marcia R. West
Regional Health Physicist

RECEIVED FEB 17 2010

History of Radionuclides and Instruments

Children's Mercy Hospital
2401 Gillham Rd.
Kansas City, MO 64108

The only radionuclide used in any of the areas decommissioned was liquid P-32. No other radionuclides were ever used.

There were no sealed sources used in this lab.

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

The survey meter was moved to the office of the RSO to be used in other areas within the hospital.

Children's Mercy Hospital
 Clinical Pharmacology Research Lab
 January 14, 2010

← North

Hallway

Lab Area

Storage



Walkway in Lab

Close-out Area Surveys

Date: January 14, 2010

Licensee: Children's Mercy Hospital; Kansas City, MO

Instrument: Ludlum Model 19 R Meter (SN: 169637)

CAL. DATE: 4/27/2009

Location: Clinical Pharmacology Research Lab

	<u>Location</u>	<u>Results</u>
1.	Background	0-4 μ R/hr
2.	Floor	0-4 μ R/hr
3.	Floor	0-4 μ R/hr
4.	Floor	0-4 μ R/hr
5.	Floor	0-4 μ R/hr
6.	Floor	0-4 μ R/hr
7.	Floor	0-4 μ R/hr
8.	Floor	0-4 μ R/hr
9.	Floor	0-4 μ R/hr
10.	Floor	0-4 μ R/hr
11.	Floor	0-4 μ R/hr
12.	Floor	0-4 μ R/hr
13.	Floor	0-4 μ R/hr
14.	Floor	0-4 μ R/hr
15.	Floor	0-4 μ R/hr
16.	Floor	0-4 μ R/hr
17.	Sink	0-4 μ R/hr
18.	Gel Boxes	0-4 μ R/hr
19.	Bench Top	0-4 μ R/hr
20.	Hood	0-4 μ R/hr
21.	Centrifuge	0-4 μ R/hr
22.	Freezer	0-4 μ R/hr
23.	Trash	0-4 μ R/hr

Results: The above area surveys were acquired of the assigned areas with a micro R meter. None of the areas exceeded the room background reading of 0-4 μ R.

Performed by: 
For: Cardinal Health Medical & Health Physics
Nebraska Registry #50

Close-out Wipe Tests

Date: January 14, 2010
Licensee: Children's Mercy Hospital; Kansas City, MO
Instrument: Cobra II Auto Gamma MCA
Location: Clinical Pharmacology Research Lab

	<u>Location</u>	<u>Results</u>
1.	Background	0 CPM (110-170 KEV)
2.	Floor	<200 dpm/100 cm ²
3.	Floor	<200 dpm/100 cm ²
4.	Floor	<200 dpm/100 cm ²
5.	Floor	<200 dpm/100 cm ²
6.	Floor	<200 dpm/100 cm ²
7.	Floor	<200 dpm/100 cm ²
8.	Floor	<200 dpm/100 cm ²
9.	Floor	<200 dpm/100 cm ²
10.	Floor	<200 dpm/100 cm ²
11.	Floor	<200 dpm/100 cm ²
12.	Floor	<200 dpm/100 cm ²
13.	Floor	<200 dpm/100 cm ²
14.	Floor	<200 dpm/100 cm ²
15.	Floor	<200 dpm/100 cm ²
16.	Floor	<200 dpm/100 cm ²
17.	Sink	<200 dpm/100 cm ²
18.	Gel Boxes	<200 dpm/100 cm ²
19.	Bench Top	<200 dpm/100 cm ²
20.	Hood	<200 dpm/100 cm ²
21.	Centrifuge	<200 dpm/100 cm ²
22.	Freezer	<200 dpm/100 cm ²
23.	Trash	<200 dpm/100 cm ²

Remarks: The above close-out wipe tests were acquired of the assigned areas. The sample areas consisted of a contiguous wipe from a 3' X 3" area or approximately 8361 cm².

Performed by: _____
For: Cardinal Health Medical & Health Physics
Nebraska Registry #50

S#	TIME	CPMA	DPM1	MDA at 95% CL:
1	1.00	0		
2	1.00	0	0	2.7 cpm above background.
3	1.00	0	0	
4	1.00	0	0	
5	1.00	0	0	
6	1.00	0	0	
7	1.00	0	0	
8	1.00	0	0	
9	1.00	0	0	
10	1.00	0	0	
11	1.00	0	0	
12	1.00	0	0	
13	1.00	0	0	
14	1.00	0	0	
15	1.00	0	0	
16	1.00	0	0	
17	1.00	0	0	
18	1.00	0	0	
19	1.00	0	0	
20	1.00	0	0	
21	1.00	0	0	
22	1.00	0	0	
23	1.00	0	0	

Protocol #: 8

DECOMMISSIONING LEAK

User : MDF

Tech ID: MDP
 CHILDREN'S MERCY HOS-PHARM RES LAB; KANSAS CITY MO
 Count Time(minutes): 1.00
 Assay Type: CPM
 Background Subtract : IPA Bkg
 Outlier: 5.0 FLAG
 Dilution Operator : #
 %Spillup: 0.00
 %Spilldown: 0.00
 Screening: OFF

	Window A	Window B	Window C
Nuclide:	Co-57 75 - 165 keV	MAN 562 - 762 keV	MAN 15 - 2000 keV
Bkg:	50.9	36.8	339
Sigma:	0.00	0.00	1.00
LCR:	0	0	0
Half Life(hours):	0.00	0.00	
Multiplier:	2.0000		
%CV Flag Limit:	0.00	0.00	

S#	TIME	A:CPM	B:CPM	C:CPM	CCPM	PAT/ID
1	1.00	0	0	0	0	BACKGROUND
2	1.00	0	6	0	0	FLOOR
3	1.00	0	0	0	0	FLOOR
4	1.00	0	0	0	0	FLOOR
5	1.00	0	0	0	0	FLOOR
6	1.00	0	0	0	0	FLOOR
7	1.00	0	0	0	0	FLOOR
8	1.00	0	1	0	0	FLOOR
9	1.00	0	0	0	0	FLOOR
10	1.00	0	0	0	0	FLOOR
11	1.00	0	0	0	0	FLOOR
12	1.00	0	0	0	0	FLOOR
13	1.00	0	0	0	0	FLOOR
14	1.00	0	0	0	0	FLOOR
15	1.00	0	0	0	0	FLOOR
16	1.00	0	0	0	0	FLOOR
17	1.00	0	2	0	0	SINK
18	1.00	0	0	0	0	GEL BOXES
19	1.00	0	2	0	0	BENCH TOP
20	1.00	0	0	0	0	HOOD
21	1.00	0	0	0	0	CENTRIFUGE
22	1.00	0	0	0	0	FREEZER
23	1.00	0	0	0	0	TRASH

Cardinal Health
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