

Beaumont

Beaumont Heart & Vascular Center - Dearborn
Beaumont Cardiovascular Associates
22060 Beech Street, Suite 200
Dearborn, MI 48124

8/10/2017

UNITED STATES NUCLEAR REGULATORY COMMISSION

Region III, Materials Licensing Section
2443 Warrenville Road
Suite 210
Lisle, IL 60532-4352

Re: Amendment of NRC License No. 21-32196-01
Close out survey

Dear Sir/Madam:

We wish to provide the following information, in an effort to amend our NRC license.

Item #1: Please delete the following location as an area of use from our license.

**19725 Allen Road, Building 2
Brownstown, MI 48183**

Please note the following:

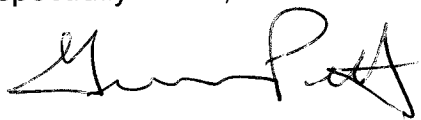
- A close-out survey and wipe test was performed on July 31, 2017 and the data is enclosed for your review.
- A map of the area(s) noted above keyed to the survey and wipe test data.
- The last date of use of byproduct material was July 28, 2017.
- The following radionuclide(s) (Sealed) Cs-137, Ba-133 and Unsealed Tc99m, Tl-201 were used at this facility.
- All sealed source were transferred to a location of use listed on our license.
- All residual byproduct material to include waste was fully decayed in storage and disposed of or returned to the supplier.
- A current copy of the sealed source leak test results for the sealed sources used at our facility are enclosed for your review.

This facility is exempt from decommissioning due to low volumes and short physical half-lives of materials used. We did not dispose of radioactive materials by release to sewers or incineration. In addition, there were no spills of any long-lived radioactive material or on-site burials of radioactive materials.

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If you have any questions, please contact our physicist James M. Botti, MS by phone at (734) 662-3197 or by email at jbotti@mpcphysics.com.

Respectfully Yours,

A handwritten signature in black ink, appearing to read 'Gregory Pitt', written in a cursive style.

Gregory Pitt, CNMT
Radiation Safety Officer

Enclosures

Handwritten mark

Sealed Source Leak Test

Licensee: Oakwood Cardiovascular Associates-Downriver

Date: 05/10/17

Performed by: James Botti

Nuclide	Type	Calibration		Location	M/N	S/N
		Activity	Date			
Cs-137	Vial	211.8 uCi	09/01/04	Hot Lab	RV137200	1074196
		Current Activity: 158 uCi				
Ba-133	Vial	258.8 uCi	09/01/04	Hot Lab	RV133250	1074182
		Current Activity: 112.2 uCi				

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: _____

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Close-out Survey

Date performed: July 31, 2017

Performed by: James M. Botti, MS

Comments: Sealed sources and radioactive trash were removed from these areas prior to survey and wipe testing.

Instruments

Wipe tests analyzed with a Captinec Caprac Well Counter #153767

Instrument: Well Counter

Radionuclide:	<u>Cs-137</u>	MDA for Cs-137	<u>594 dpm's</u>
Date completed:	<u>04/15/14</u>	Conversion factor:	<u>6.46 dpm/dpm</u>

Area survey performed with the following survey meter:

Manufacturer: Ludlum

Type: GM

Model Number: 14C

Serial Number: 206392

Probe Model: End Window

Annual Calibration Due: 11/18/17

Battery check acceptable: YES

Operational check acceptable: YES

Constancy check acceptable: YES

Current reading: 0.75 mR/hr

Radionuclides Used

Unsealed

Tc99m, Tl-201

Sealed

Ba-133, Cs-137

Last date of byproduct radiopharmaceutical use:

July 31, 2017

Visual Check: The area was checked to ensure that all sealed sources and radioactive waste had been removed. No evidence of radioactive material was noted.

Sealed Source Leak Testing: Sealed Source Leak tests demonstrated no removable contamination.

Leaking Sources: There is no history of leaking sources at this facility.

Radiation Level Survey: No area within the department demonstrated radiation levels in excess of the background reading of 0.02mR/hr.

Removable Contamination: No area within the department demonstrated removable contamination excess of 54 dpm's.

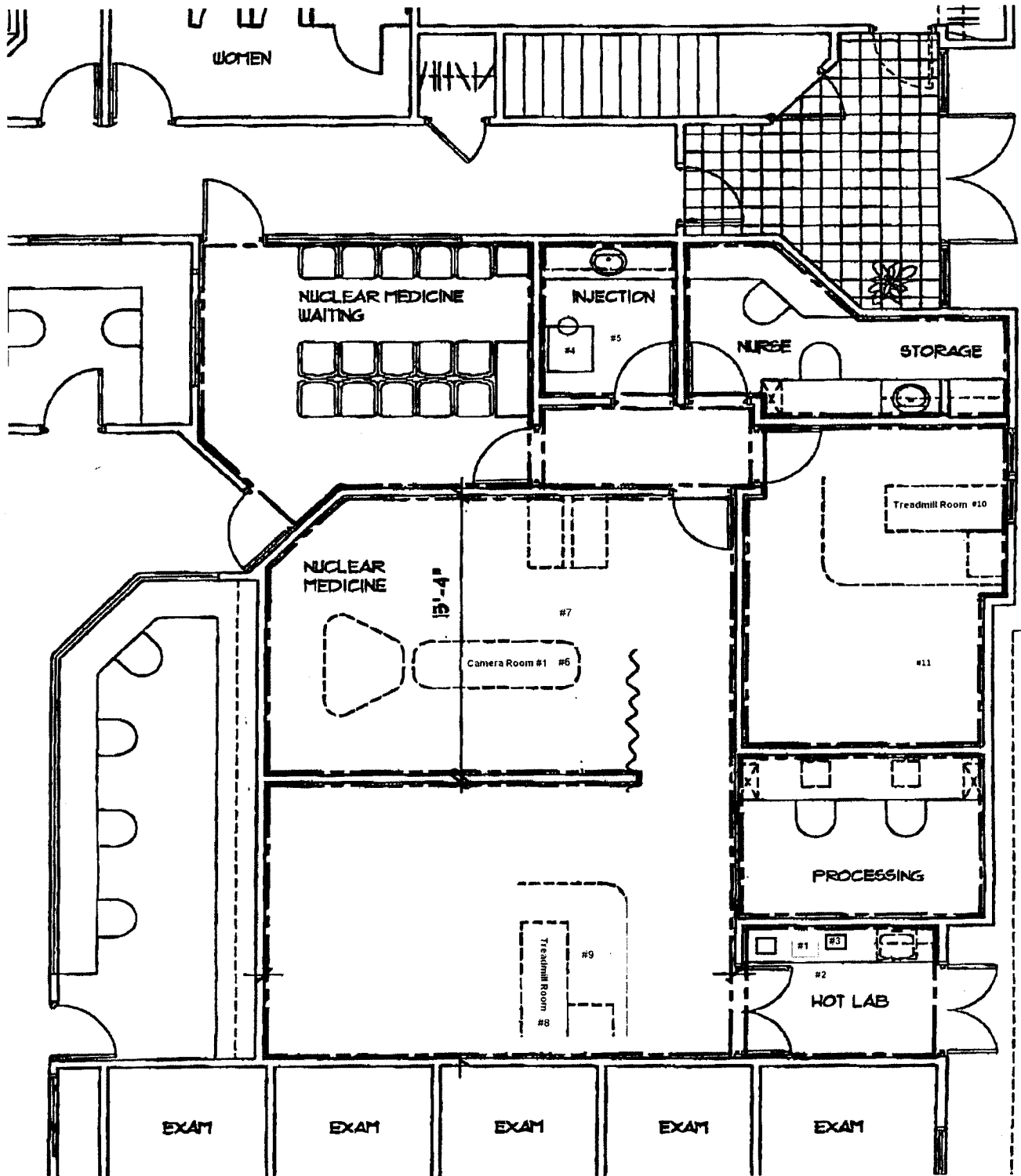
Background: 223 cpm's

Area	Result in dpms
#1 Dose Prep Area	0
#2 Shielded Waste Storage	0
#3 Package Receipt	0
#4 Floor	12
#5 Countertop	12
#6 Camera	16
#7 Floor	16
#8 Treadmill Room #1	36
#9 Treadmill Room # 1 Floor	36
#10 Treadmill Room #2	54
#11 Treadmill Room #2 Floor	54

Maximum removable contamination = 54 dpms

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

19725 Allen Road
Brownstown, MI 48183

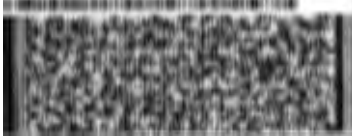



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